

## Article

# Effective Clinical Pathway Improves Interprofessional Collaboration and Reduces Antibiotics Prophylaxis Use in Orthopedic Surgery in Hospitals in Indonesia

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**Abstract:** Clinical pathways can improve the quality of health services. The effectiveness and impact of implementing clinical pathways are controversial. The preparation of clinical pathways not only enacts therapeutic guidelines but requires mutual agreement in accordance with the roles, duties, and contributions of each profession in the team. This study aimed to investigate the perception of interprofessional collaboration practices and the impact of clinical pathway implementation on collaborative and Defined Daily Dose (DDD) prophylactic antibiotics per 100 bed-days in orthopedic surgery. The Collaborative Practice Assessment Tool (CPAT) questionnaire was used as a tool to measure healthcare' perceptions of collaborative practice. The clinical pathway (CP) in this study was adapted from existing CPs published by the Indonesian Orthopaedic Association (Perhimpunan Dokter Spesialis Orthopaedi dan Traumatologi Indonesia, PABOI) and was commended by local domestic surgeons and orthopedic bodies. We then compared post-implementation results with pre-implementation clinical pathway data using ANCOVA to explore our categorical data and its influence towards CPAT response. ANOVA was then employed for aggregated DDD per 100 bed-days to compare pre and post intervention. The results showed that the relationships among members were associated with the working length. Six to ten years of working had a significantly better relationship among members than those who have worked one to five years. Interestingly, pharmacists' leadership score was significantly lower than other professions. The clinical pathway implementation reduced barriers in team collaboration, improved team coordination and organization, and reduced third-generation cephalosporin use for prophylaxis in surgery (pre: 59 DDD per 100 bed-days; post: 28 DDD per 100 bed-days). This shows that the clinical pathway could benefit antibiotic stewardship in improving antibiotic prescription, therefore reducing the incidence of resistant bacteria.

**Keywords:** interprofessional collaborative practice; antibiotic stewardship; defined daily dose; clinical pathway; antibiotics prophylaxis

## 1. Introduction

Antibiotic prophylaxis is an antibiotic delivered 60 minutes (two hours if administered vancomycin) before surgery to a maximum of 24 hours after surgery. The benefit of prolonged surgical antibiotic prophylaxis is debatable, where the overuse of antibiotics leads to antimicrobial resistance. This may lead to increased costs of hospitalization, especially if an individual is infected by methicillin-resistant *Staphylococcus aureus* (MRSA). Some studies showed that the rates of infection in patients who received prophylaxis for one day and those who received it for three days or seven days were similar [1]. Nevertheless, a study reported that the number of periprosthetic joint infections in patients with total hip or knee arthroplasties (THA/TKA) without oral surgical prophylaxis was 4–5 times more likely than if they were administered extended oral SAP (surgical antibiotic prophylaxis) [2].

An interprofessional collaboration practice is a multidisciplinary collaboration that integrates nursing care, nutritional care, and pharmaceutical care to improve service quality. Hospital Accreditation Standards describes Clinical Pathways (CP) as a valuable tool in Integrated Care practice to control quality and cost [3,4]. An active collaboration during the implementation of clinical care pathways is a standard of input, process, and outcome that eliminates unnecessary or inefficient treatments [5]. Clinical pathway implementation and hospital formularies also include antimicrobial stewardship (AMS) strategies [6,7]. Research on the benefits of implementing CP on controlling antibiotic use in developing countries has not been widely carried out. The benefit (length of stay, healthcare cost, and service quality) of implementing CP in other patient care (emergency, surgery, and other clinical cases) has controversial results [5,8,9]. A review showed that the average length of stay for hip fractures was reduced, but on the contrary, esophagectomy patients showed no significant difference [5]. A study reported that a successful clinical pathway implementation was related to the cognitive level of hospital administrators and clinical staff, the system of hospital accreditation, and feedback of CP implementation [10].

In a clinical pathway, multidisciplinary decision making increases engagement between professionals for a better quality of care. Shared decision making is often described as the process of making decisions towards patient care based on mutual agreement on clinical evidence and available information [11,12]; it starts with assessing signs and symptoms, determining diagnosis, deciding the severity, and the implementation of therapy [13]. An interprofessional collaboration practice is built by members by taking responsibility for their contributions to the team, interaction, or discussion in providing feedback among team members; communication among team members [13] to achieve better goals; and commitment among team members to success. The treatment decisions are taken by considering all team members' knowledge and contribution to patient care [14,15].

Research in Japan that assessed the practice of interprofessional collaboration of medical personnel in three hospitals has shown that age (i.e., younger professionals) and profession (e.g., nursing) were the most influential positive factors in creating a collaborative environment [16]. Healthcare practitioners from countries with complementary models (e.g., United States and Israel) possess more positive attitudes to interprofessional collaboration than healthcare practitioners from countries with hierarchical models (e.g., Italy, Mexico, and including Indonesia) [13,17–19]. Thus, promoting complementary collaborative models may be necessary to improve attitudes towards collaborative practice. In the complementary model, all professions share responsibilities and have complementary roles concerning patient care. A study in a West Java regional hospital that uses Collaborative Practice Assessment Tool (CPAT) as a tool showed that leadership and decision making were the two dominant factors that influence interprofessional collaboration practice [20]. However, interprofessional collaboration practices in hospitals sometimes are not mandatory and are not supported by management, especially in Indonesia. Interprofessional collaboration practices are strongly needed to improve the quality of healthcare services and patient safety [21].

Along with time, the number of broad-spectrum antibiotic use remains high especially with a hierarchical culture in Indonesia as a barrier to interprofessional collaboration. Hence, the first aim in our study was to explore the perception of interprofessional collaboration practice and how it is influenced by external (e.g., work experience) or internal factors (e.g., age and gender). The second aim was then to implement a clinical pathway to further improve collaboration practice and antibiotic use. Specifically, we aimed to determine the differences of interprofessional collaboration practices perception in orthopedic surgery healthcare at Husada Utama Hospital. This was performed before (i.e., baseline) and after clinical pathway implementation. The impact of CP implementation on the use of antibiotics in hospitals was then assessed. Our hypothesis is that clinical pathways would foster a collaborative environment between health professionals, which results in the judicious use of antibiotics and reduces the incidence of antimicrobial resistance.

## 2. Methods

The first study is aimed to measure the interprofessional collaboration practice perception and whether various covariates such as demographics may contribute to the difference between collaborative perception, whereas the second study then measured the impact of clinical pathways in antibiotic use in a hospital. Two hundred and twenty respondents from three referral hospitals participated in Study I. The Husada Utama Hospital is a private hospital in Surabaya and has 235 beds; Bangil Regional Public Hospital is a public hospital in Pasuruan and has 366 beds; and Hajj General Hospital is a public hospital and has 293 beds. The intervention, clinical pathway, was used for orthopedic healthcare practitioners in Husada Utama Hospital, Surabaya, admitted in December 2020. The Collaborative Practice Assessment Tool (CPAT) instrument was developed to assess the degree of collaboration and identifies the strengths and weaknesses of collaborative practice which then provide opportunities to focus on training interventions for team members [22,23].

### 2.1. Study I

#### Perception of Interprofessional Collaborative Practice

The assessment of healthcare practitioners' perceptions of collaborative practices was measured using the Collaborative Practice Assessment Tool (CPAT) questionnaire that has been validated in the Indonesian context [13]: the Indonesian version of CPAT. The questionnaire was validated using exploratory factor analysis (EFA) after language adaptation and trial. EFA showed the adequacy of the sample with Measure of Sampling Adequacy (MSA) 0.728–0.965, the Kaiser–Meyer–Olkin (KMO) 0.923, and Bartlett's Sphericity Test 0.000. The correlation coefficient for 53 questions is  $>0.3$  with a significance level of 5%. The reliability of the CPAT questionnaire was measured with Cronbach's alpha of 0.977, which consists of eight components with a total of 53 questions (Table S1): i. relationships among team members (9 questions); ii. barriers to team collaboration (5 questions); iii. team relationships within the community (4 questions); iv. team coordination and organization (14 questions); v. decision making and conflict management (2 questions); vi. leadership (5 questions); vii. missions, goals, and objectives (9 questions); and viii. patient involvement, responsibility, and autonomy (5 questions). The CPAT form (hardcopy) was distributed to nurses and pharmacists by the Husada Utama Hospital, Bangil Regional Public Hospital, and Hajj General Hospital Training and Development Division. Unfortunately, the researchers were not able to meet in person due to COVID-19 pandemic. Each respondent had an invitation by phone and signed a consent form indicating their willingness to participate in this research. Interestingly, data collection with a hardcopy version during the training session for the pre-intervention stage (3 days) was faster than the post-intervention stage (7 days)—this was probably due to internal com-

munication by the head of the department. Three doctors filled an e-form of the questionnaire immediately after receiving a Google form link (Alphabet Inc., Mountain View, CA, USA). One doctor filled a hardcopy questionnaire that was delivered face to face. The questionnaire data collection was carried out to provide CPAT score in three hospitals.

## 2.2. Study II

### Research Design

This research is a pretest–posttest one-group design. The intervention in this research was the clinical pathway (CP). This research was conducted from November 2020 to January 2021 in Husada Utama Hospital. The respondents in this study were orthopedic specialists, pharmacists, and nurses who were directly involved in orthopedic patient care. Questionnaire data collection was carried out twice in early December 2020 (pre-test, before CP implementation) and early January 2021 (post-test, after CP implementation).

The intervention used in this study was closed fracture clinical pathway. There were twelve CPs applied. The diagnosis of the CP were closed fracture antebraichii, fracture wrist and hand, fracture of carpal bone, contracture of joint, carpal tunnel syndrome, adhesive capsulitis of shoulder, closed fracture of radius and ulna, closed tibia fracture, osteomyelitis, rupture tendon, soft tissue injury of knee, proximal tibia fracture. The Husada Utama Hospital management had not established Clinical Pathway for orthopedic surgery. The clinical pathway in this study was adapted from existing CP published by the Indonesian Orthopaedic Association (Perhimpunan Dokter Spesialis Orthopaedi dan Traumatologi Indonesia, PABOI) and was commended by local domestic surgeons and orthopedic bodies. CP (in the form of a tick and patient-oriented short note of nursing care, medical actions, nutritional care, etc.) was used as the patient care guide for each orthopedic surgery patient admitted in December 2020. When the patient was finally discharged from the hospital, each existing CP was then signed by the responsible doctor. This documented CP can be then reviewed at any time.

### 2.3. DDD per 100 Bed-Days

Defined Daily Dose (DDD) is the assumed average maintenance dose per day for a drug used for its main indication in adults, a statistical measure of drug consumption [24,25]. The overuse of antibiotics will shift the competitive balance of susceptible and resistant microorganisms (selection pressure); therefore, monitoring and controlling antibiotic use is important. Define daily dose (DDD) is a unit for measuring antibiotic use that is widely use and can be compared internationally. A quantitative evaluation used the DDD per 100 bed-days, which is calculated using the formula below [26]:

$$\frac{\text{DDD}}{100} \text{ bed days} = \frac{\text{Total Antibiotics (gram)} \times 100}{\text{DDD WHO (gram)} \times \text{LOS}}$$

where DDD WHO is the Defined Daily Dose determined by WHO and LOS is the Total Length of Stay.

### 2.4. Statistical Analysis

In Study I, the analysis of Covariance (ANCOVA) was used to investigate the influence of age, gender, work length, profession, and previous experience in collaborative practice on CPAT responses. Fisher's Least Significant Difference (LSD) was then applied if significance was observed. In a similar manner, ANCOVA was employed to the dataset that was collected in Study II with the focus on pre-post changes in CPAT perception. Fisher's Least Significant Difference (LSD) was then applied if significance was observed. In addition, a generalized Analysis of Variance (ANOVA) model was also carried out on the aggregated DDD dataset to identify the changes of DDD and DDD/100 bed-days between pre- and post-CP implementation. All analysis was performed using XLSTAT 2022.1.1 (Addinsoft, New York, NY, USA).

### 3. Results

From three hospitals that participated in this study, there were 261 healthcare respondents (Section 2.1, Tables 1–3): 98 respondents from Husada Utama Hospital (HUH), 96 respondents from Bangil Regional Public Hospital (BRPH), and 67 respondents from Hajj General Hospital (HGH). Tables 2 and 3 include the influence of the length of employment experience and profession on interprofessional collaboration practice perception. One of the three hospitals, Husada Utama Hospital with 52 participants in the orthopedic department, had agreed to implement clinical pathways and measure its impact on antibiotic use (Section 2.2, Tables 4–6). Table 6 represents all antibiotic use in the study period.

**Table 1.** CPAT respondent demography characteristic for Study I (N = 261 – N<sub>HUH</sub> = 98; N<sub>BRPH</sub> = 96, N<sub>HGH</sub> = 67).

Characteristics	Frequency	Percentage (%)
Age		
21–25 years	25	11.36
26–30 years	62	28.18
31–35 years	51	23.18
36–40 years	27	12.27
41–45 years	17	7.73
>45 years	38	17.27
Gender		
Male	42	19.09
Female	178	80.91
Profession		
Doctor	29	13.18
Pharmacist	14	6.36
Nurse	87	39.55
Midwife	80	36.36
Technician	10	4.55
Work length		
1–5 years	71	32.27
6–10 years	74	33.64
>10 years	75	34.09
Experience in collaborative practice		
Yes	212	96.36
No	8	3.64

**Table 2.** Reported CPAT scores categorized by work length (N = 261 – N<sub>HUH</sub> = 98; N<sub>BRPH</sub> = 96, N<sub>HGH</sub> = 67).

Work Length	p-Value	1–5 Years	6–10 Years	>10 Years
Relationships among members	<0.001	4.228 b	4.472 a	4.417 ab
Barriers in team collaboration	0.210	3.368 a	3.615 a	3.506 a
Team relationships with the community	0.252	3.580 a	3.714 a	3.853 a
Team coordination and organization	0.698	4.253 a	4.306 a	4.269 a
Decision making and conflict management	0.684	1.835 a	1.771 a	1.712 a
Leadership	0.627	3.808 a	3.883 a	3.830 a
Mission, goals, and objectives	0.294	4.008 a	4.125 a	4.080 a
Patient involvement, responsibility, and autonomy	0.353	3.680 a	3.829 a	3.811 a

a,b means with different letters show the significant effect of work length based on Fisher's Least Significant Difference (LSD), posthoc grouping based on multiple comparisons.

**Table 3.** Reported CPAT scores categorized by profession (N = 261 – N<sub>HUH</sub> = 98; N<sub>BRPH</sub> = 96, N<sub>HGH</sub> = 67).

Profession	<i>p</i> -Value	Doctor	Midwife	Nurse	Technician	Pharmacist
Relationships among members	0.353	4.435 a	4.470 a	4.357 a	4.355 a	4.244 a
Barriers in team collaboration	<0.001	3.661 a	3.808 a	2.865 b	3.560 a	3.589 a
Team relationships with the community	0.053	3.911 a	3.869 a	3.884 a	3.291 a	3.624 a
Team coordination and organization	0.786	4.366 a	4.275 a	4.280 a	4.285 a	4.172 a
Decision making and conflict management	0.414	1.855 a	1.913 a	1.775 a	1.661 a	1.659 a
Leadership	<0.001	4.144 a	4.072 a	4.085 a	3.152 c	3.750 b
Mission, goals, and objectives	0.216	4.222 a	4.147 a	4.139 a	3.929 a	3.917 a
Patient involvement, responsibility, and autonomy	<0.001	4.110 a	4.068 a	4.146 a	2.571 b	3.971 a

a,b,c means with different letters show the significant effect of work length based on Fishers Least Significant Difference (LSD), posthoc grouping based on multiple comparisons.

**Table 4.** CPAT respondent demography characteristic for Study II (N<sub>HUH</sub>=52).

Characteristics	Frequency	Percentage (%)
Age		
21–26 years	5	9.62
26–31 years	12	23.08
31–35 years	19	36.54
>35 years	16	30.77
Gender		
Male	10	19.23
Female	42	80.77
Profession		
Doctor specialist	4	7.69
Pharmacist	7	13.46
Nurse	41	78.85
Work length		
1–5 years	9	17.31
5–10 years	20	38.46
>10 years	23	44.23
Experience in collaborative practice		
Yes	46	88.46
No	6	11.54

**Table 5.** Overall perception of interprofessional collaboration practices before and after clinical pathway intervention (N<sub>HUH</sub>=52).

Condition	<i>p</i> -Value	Pre	Post	Effect Size (Cohen's d)
Relationships among members	0.229	4.278 a	4.252 a	-
Barriers in team collaboration	<0.001	3.112 b	3.442 a	0.351
Team relationships with the community	0.390	3.837 a	3.904 a	-
Team coordination and organization	<0.05	4.082 a	4.016 b	0.104
Decision making and conflict management	0.159	1.885 a	1.923 a	-
Leadership	0.322	4.231 a	4.238 a	-
Mission, goals, and objectives	0.991	4.211 a	4.211 a	-
Patient involvement, responsibility, and autonomy	0.159	4.115 a	4.269 a	-

a,b means with different letters show the significant effect of work length based on Fisher's Least Significant Difference (LSD), posthoc grouping based on multiple comparisons.

**Table 6.** Profile of DDD 100 bed-days orthopedic patients.

NO	ATC Code	Antibiotic Name	Pre		Post	
			DDD	DDD/100 Bed-Days	DDD	DDD/100 Bed-Days
ORAL						
1	J01DB05	Cefadroxil	533.25	32.24	75.50	17.81
2	J01DD08	Cefixime	446.00	26.96	87.25	20.58
3	J01MA02	Ciprofloxacin	101.00	6.11	-	-
4	J01MA12	Levofloxacin	9.00	0.54	-	-
PARENTERAL						
1	J01DD04	Ceftriaxone	526.00	31.80	26.25	6.19
2	J01DB04	Cefazolin	626.67	37.89	121.50	28.66
3	J01GB03	Gentamicin	36.27	2.19	-	-
4	J01DD01	Cefotaxime	-	-	4.00	0.94
Total oral and parenteral			2278.18	137.73	314.5	74.18
Period			Sept-Nov. 2020		Jan. 2021	
Number of patients			337		41	
Length of stays (days)			1654		424	

### 3.1. Perception of Interprofessional Collaborative Practice

A cross-sectional survey showed that, among respondents, there are 35% aged 30–40, 81% female, 76% nurses and midwives, 34% with work lengths of 6–10 years, and only 4% did not experience in collaborative practice.

#### Influence of Demographics and Employment Experience

Work length influences relationships among members. Work length was shown to be a significant factor for relationships among members ( $F_{(10,219)} = 5.521$ ;  $p < 0.01$ ) (Table 2). The highest score was shown for participants that worked for 6–10 years followed by participants that had worked for more than 10 years. A significantly lower score was reported for participants who had worked less than 5 years compared to participants that had 6–10 years experience.

Profession influences CPAT perception. Profession was found to be a significant factor for barriers in team collaboration ( $F_{(10,219)} = 10.395$ ;  $p < 0.001$ ), leadership ( $F_{(10,219)} = 9.307$ ;  $p < 0.001$ ), and patient involvement, responsibility, and autonomy ( $F_{(10,219)} = 17.328$ ;  $p < 0.001$ ) (Table 3). It was shown that nurses are significantly rated the lowest in barriers in team collaboration compared to other professions. A highest score of leadership was reported in doctors, midwives, and nurses. It was significantly lower in pharmacists followed by technicians. The significant lowest score for patient involvement, responsibility, and autonomy was reported by technicians compared to other profession groups. There was no reported effect of age, gender, and previous experience in collaborative practice towards collaborative practice perception.

### 3.2. Influence of effective clinical pathway

The characteristics of the respondents as follows: 60% respondents were 26–35 years, 81% female, 79% nurses, 44% had been working for more than ten years, and 88% experienced collaborating with other professions (Table 4). The fifty-two health care practitioners were four orthopedic specialists, forty one nurses, and seven pharmacists.

CP significantly increases CPAT perception. The score of collaborative practice perceptions in post-intervention (using clinical pathways) was significantly higher for barriers in team collaboration (Cohen's  $d = 0.351$ ; medium effect size) and team coordination and organization (Cohen's  $d = 0.104$ ; small effect size) compared to baseline (Table 5).

Significant decrease was reported after CP intervention for both DDD ( $F_{(8,15)} = 9.051$ ;  $p < 0.05$ ) and DDD/100 bed-days ( $F_{(8,15)} = 9.589$ ;  $p < 0.05$ ) (Table 6). This implies that CP

implementation was indeed successful in decreasing DDD and promotes the judicious use of antibiotics in this study.

#### 4. General Discussion

##### 4.1. Work Length Influences Relationships among Members

There are 34% respondents that have a work length 6–10 years (Tables 1 and 2). Our results resonate with other studies that had reported work experience affect work ability [27], where the period of employment is significantly associated with good working relationships and knowledge integration problems [28]. A multicenter longitudinal study in 13 hospitals in Germany found that work experience and period of employment was associated with interprofessional collaboration perception (good working relationship), particularly between 1 and 3 months versus 1–5 years, but not more than 5 years. Moreover, perceptions of inter-professional teamwork within wards seemed similar across professional groups due to the impact of ward affiliation. This study suggests training entire inter-professional teams in future interventions [28].

##### 4.2. Profession Influences CPAT Perception

In this study, nurses significantly rated the lowest in barriers in team collaboration compared to other professions (Table 3). Nurses often have a close relationship with the patient and play a role in preventing disease complications and are often the first who detect health emergencies, including adverse drug reactions. Nurses' contributions to medical care and pharmaceutical care will reduce the barrier of nurses' collaboration with other professions. A systematic review had reported that, in more than 30% (15 out of 50 studies) of the included studies, nurses were heavily involved in interventions for improving patients' care, especially patients' adherence towards medication [29]. Pharmacists were reported to have higher barriers in collaboration than nurses because of limited doctor and nurse knowledge about the pharmacists' competencies. Pharmacists possess clinical skills [30,31] and not only skills in drug management and procurement [32]. Another barrier to collaboration that has been reported between physicians and pharmacists is communication, lack of specific collaboration rules (standards of cooperation), self-confidence, low mutual respect, and trust [31]. Generally, doctors are often recognized as the leaders of clinical teams. Leadership skills are commonly embedded and developed in their medical education and training, both in undergraduate and postgraduate level to take responsibility for the delivery of excellent patient care [33,34]. A leader promotes collaboration across members of the healthcare team, manages resources and maintains staff commitment to getting work performed [35]. However, it has been reported that pharmacists' expertise remained untapped in the context of interprofessional care, for example, in assisting in the reduction in medical costs for prescription medications and to increase the rationality of therapy for patients [32]. Pharmacy technicians are a part of the pharmacy team. Pharmacists provide clinical services patient care, whereas pharmacy technicians' tasks are mainly stock management, dispensing, prescription administration (collection and filing and repeat supply) and assisting with audits [36]. In the future, in addition to technical tasks, newly proposed roles include clinical tasks (handing out medicines) and management/training tasks (responding to queries and dealing with complaints) [36–38]. The nature of their task in the integrative healthcare system can contribute to a sense of detachment towards patients compared to other professions [39–41].

##### 4.3. CP Significantly Increases CPAT Perception

In this study, CP intervention showed a small to medium effect on the behavior of healthcare practitioners (Table 5). Clinical pathway implementation is appropriate or effective for most surgeries or high-volume procedures. It is used a tool to ensure effective integration and coordination of services by efficiently using existing resources and is a valued document of Good Clinical Governance in hospitals, which resulted in positive



outcomes for patients. However, it is to note that CP requires a multidisciplinary approach or interprofessional collaboration in the integrative healthcare system [42,43]. To provide high-quality care, an institution develops, implements, and evaluates clinical pathways (CPs). Clinical Pathways in the care of patients with a specific clinical problem may reduce variations in clinical practice, perform evidence-based practice [44], and optimize resource allocation and cost-effectiveness [45]. Resonating with our findings, team collaboration was often a reported barrier to a successful CP implementation. Determining the role and commitment of all relevant parties is a key factor in CP implementation success [45,46]. CP implementation is a leader-driven initiative; therefore, the awareness and support of hospital leaders to develop strategic policies can act as a tool in change management, as an integral component in business management and service quality assurance. Hence, awareness, commitment, and the role of senior managers/staff are crucial factors in the successful implementation of CP and to uphold good clinical governance [45].

A decree or support from the director/hospital senior management to support and implement the clinical pathway is important for organizational commitment. Leaders or directors can be an inspiration in work and determine the direction and goals of the organization. Senior leaders can demonstrate their capacity to carefully delegate responsibilities and instill a strong sense of belonging to the organization in their employees. This attitude may influence employees to be able to commit to their organization. The effectiveness of an organization is often determined by the role of leaders who are willing to bring organizational members towards achieving vision, mission, and goals. The leader can provide social effects with a personal approach [47,48], authentic style [49,50], and building of two-way communication [14,51–54].

The quality of CP that was developed varied. A good CP is translated from an evidence-based best practice, evaluates processes and outcomes regularly, and the awareness of its benefits in other fields [55]. IT-system support is also crucial in implementing an elegant and sophisticated CP [56]. The positive impacts of CP towards interprofessional collaboration that have been reported were (i) professional contribution with respect to their unique competence, roles, task distribution, and responsibilities to complement each other [57–59]; (ii) reduction in the amount of time for communication, shared information, planning, and decision making [57,58]; (iii) the dependence and recognition between profession in the integrative healthcare systems [60]; and, finally, (iv) to foster organization and collaboration culture model [60].

#### *4.4. DDD Decreases after CP Intervention*

This study reported a (near) fifty percent DDD per 100 bed-days reduction (Table 6). Similarly to other studies, clinical pathways increase the clinical appropriateness of antibiotics [61–63] and reduces broad-spectrum antibiotics regimen, accompanied with fewer antibiotic courses [64].

#### *4.5. Limitations and Future Research*

This study was unfortunately carried out during the height of COVID-19 pandemic, and the researchers were not able to interact with healthcare professionals in the hospital due to physical distancing rule. We, therefore, were only able to provide intervention in one hospital. Other limitations in this study were that the provision of intervention to health workers was not directly to every healthcare practitioner but by seminars or CP material debriefs due to workplace protocols to mitigate and control the transmission of COVID-19. The limited social engagement aspect of this study's CP implementation towards healthcare practitioner may result in low adherence towards CP compliance, where adherence and compliance have been reported to be strongly associated [65,66]. Knowledge from CP intervention is often not always followed by behavioral changes, especially when pressure from external factors (egalitarianism, facilities, or systems) such as forcing the subject to change behavior [67,68].

## 5. Conclusions

A clinical pathway is a standard operating procedure (SOP) that combines orthopedic specialists, pharmacists, and nurses' care for the patients built by mutual agreement of each profession in the team in terms of roles, duties, and contributions. It is an evidence-based protocol that complies with therapeutic guidelines that includes essential multidisciplinary care steps in inpatient care. Our study showed that collaboration practices were significantly influenced by work length and profession. The implementation of clinical pathway showed significant improvement in interprofessional collaboration practices, particularly in perceived barriers and team coordination. The positive improvement of such practices also resulted in a reported decrease in DDD profile in orthopedic patients. Our study showed the benefit and calls for the implementation of clinical pathway in Indonesian hospitals.

**Supplementary Materials:** The following supporting information can be downloaded at [www.mdpi.com/article/10.3390/antibiotics11030399/s1](http://www.mdpi.com/article/10.3390/antibiotics11030399/s1). Table S1: Indonesian version of CPAT questionnaire.

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**Informed Consent Statement:** Informed consent was obtained from hospital directors in the study. Patient consent was waived because of the retrospective nature of the study and the analysis used anonymous clinical data.

**Data Availability Statement:** The authors confirm that the data supporting the findings of this study are available on request.

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- [Plant-Derived Antibiotics Section \(/journal/antibiotics/sectioneditors/Plant\\_Derived\\_Antibiotics\)](https://www.mdpi.com/journal/antibiotics/sectioneditors/Plant_Derived_Antibiotics)
- [Mechanisms of Antibiotic Action Section \(/journal/antibiotics/sectioneditors/Mechanisms\\_Antibiotic\\_Action\)](https://www.mdpi.com/journal/antibiotics/sectioneditors/Mechanisms_Antibiotic_Action)
- [Structures of Bacterial Proteins Section \(/journal/antibiotics/sectioneditors/Structures\\_Bacterial\)](https://www.mdpi.com/journal/antibiotics/sectioneditors/Structures_Bacterial)
- [Biochemical and Genetics Studies of Infectious Disease Progression and Intervention Section \(/journal/antibiotics/sectioneditors/Biochemical\\_Genetics\)](https://www.mdpi.com/journal/antibiotics/sectioneditors/Biochemical_Genetics)
- [Bacteriophages Section \(/journal/antibiotics/sectioneditors/Bacteriophages\)](https://www.mdpi.com/journal/antibiotics/sectioneditors/Bacteriophages)
- [The Global Need for Effective Antibiotics Section \(/journal/antibiotics/sectioneditors/Global\\_Need\\_Effective\)](https://www.mdpi.com/journal/antibiotics/sectioneditors/Global_Need_Effective)
- [Antibiotic Therapy in Infectious Diseases Section \(/journal/antibiotics/sectioneditors/antibiotic\\_therapy\\_infectious\\_diseases\)](https://www.mdpi.com/journal/antibiotics/sectioneditors/antibiotic_therapy_infectious_diseases)
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## Editors (19)



**Prof. Dr. Nicholas Dixon**

**Website** ([https://scholars.uow.edu.au/display/nick\\_dixon](https://scholars.uow.edu.au/display/nick_dixon)) **SciProfiles** (<https://sciprofiles.com/profile/344412>)

*Editor-in-Chief*

School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, NSW 2522, Australia

**Interests:** bacterial DNA replication; protein-protein interactions; protein-DNA interactions; enzymes; antibiotic drug discovery

**Special Issues, Collections and Topics in MDPI journals**



**Dr. Krisztina M. Papp-Wallace**

**Website1** ([https://case.edu/med/id/faculty/papp-wallace\\_krisztina.html](https://case.edu/med/id/faculty/papp-wallace_krisztina.html)) **Website2** (<https://cwrumedicine.org/divisions/infectious-diseases-and-hiv-medicine/faculty>) **SciProfiles** (<https://sciprofiles.com/profile/808150>)

*Associate Editor*

Louis Stokes Cleveland VA Medical Center, Cleveland, OH, USA

**Interests:** beta-lactams; beta-lactamase inhibitors; Burkholderia; carbapenem-resistant Gram negatives; structure-activity relationships; enzyme kinetics; mass spectrometry



**Prof. Dr. Jordi Vila**

**Website** ([https://eu-central-1.protection.sophos.com?d=hospitalclinic.org&u=aHR0cDovL2NkYi5ob3NwaXRhbGNsaW5pYy5vcmcvZW5fZmFjdWx0YXRpdM9zLzU3L2pvcmRpLXZpbGEtZXN0YXBi&i=NWZIYTA5ODhmZjA4YmUwZGZhOTY3Yjc2&t=b0hERzBucTJtSGY0MnRHN2ltdlo2RFNaQ3BEQIU2LzdwWHdTOFNORHpRZz0=&h=](https://eu-central-1.protection.sophos.com?d=hospitalclinic.org&u=aHR0cDovL2NkYi5ob3NwaXRhbGNsaW5pYy5vcmcvZW5fZmFjdWx0YXRpdM9zLzU3L2pvcmRpLXZpbGEtZXN0YXBi&i=NWZIYTA5ODhmZjA4YmUwZGZhOTY3Yjc2&t=b0hERzBucTJtSGY0MnRHN2ltdlo2RFNaQ3BEQIU2LzdwWHdTOFNORHpRZz0=&h=)))  
**SciProfiles** (<https://sciprofiles.com/profile/912674>)

*Associate Editor*

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1. Department of Clinical Microbiology, Biomedical Diagnostic Center (CDB), Hospital Clinic, 08036 Barcelona, Spain
  2. School of Medicine, University of Barcelona, 08028 Barcelona, Spain
  3. Institute of Global Health of Barcelona (ISGlobal), Hospital Clínic-Universitat de Barcelona, 170, 08036 Barcelona, Spain
- Interests:** Multidrug Gram-negative bacteria; Design new antibiotics; Mechanisms of resistance; Antimicrobial resistance



#### Dr. Marc Maresca

**Website1** (<https://ism2.univ-amu.fr/en-gb/user/2653>) **Website2** ([https://www.researchgate.net/profile/Marc\\_Maresca/contributions](https://www.researchgate.net/profile/Marc_Maresca/contributions)) **Website3** (<https://orcid.org/0000-0002-3585-4765>) **SciProfiles** (<https://sciprofiles.com/profile/44222>)

*Associate Editor*

Aix Marseille Université, CNRS, iSm2 UMR 7313, 13397 Marseille, France

**Interests:** natural antimicrobial molecule; chemically synthesized and/or modified antimicrobial molecule; antimicrobial peptide; cationic polymers; antimicrobial material

**[Special Issues, Collections and Topics in MDPI journals](#)**

#### Dr. Fernando Albericio

**Website** (<http://www.ub.edu/chembiolab/htm/falbericio.htm>) **SciProfiles** (<https://sciprofiles.com/profile/11221>)

*Associate Editor*

1. School of Chemistry, University of KwaZulu-Natal, Durban, South Africa
2. Department of Organic Chemistry, University of Barcelona, CIBER-BBN, Barcelona, Spain

**Interests:** antimicrobial peptides; solid-phase chemistry; combinatorial chemistry; drug delivery systems; peptide drug conjugates; orthogonal chemistry; drug discovery; biomaterials

**[Special Issues, Collections and Topics in MDPI journals](#)**



#### Prof. Dr. Adelaide Almeida

**Website** (<http://www.cesam.ua.pt/adelaidealmeida>) **SciProfiles** (<https://sciprofiles.com/profile/912>)

*Section Editor-in-Chief*

Departamento de Biologia, CESAM - Centro de Estudos do Ambiente e do Mar, Campus Universitário de Santiago, Universidade de Aveiro, 3810-193 Aveiro, Portugal

**Interests:** phage therapy; antimicrobial photodynamic therapy; alternative approaches to antibiotics

**[Special Issues, Collections and Topics in MDPI journals](#)**



#### Dr. Albert Figueras

**Website** (<https://orcid.org/0000-0002-2740-2013>) **SciProfiles** (<https://sciprofiles.com/profile/429906>)

*Section Editor-in-Chief*

1. Consultant (medicines use, safety and policies), World Health Organization, Geneva, Switzerland
2. Former Professor, Department de Farmacologia, Universitat Autònoma de Barcelona, Barcelona, Spain

**Interests:** antimicrobial use; rational use of medicines; pharmacovigilance; drug utilization studies

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#### Prof. Dr. Carlos M. Franco

**Website** ([https://www.usc.es/es/centros/veterinaria/profesor.html?Num\\_Puesto=1702&amp;amp;](https://www.usc.es/es/centros/veterinaria/profesor.html?Num_Puesto=1702&amp;amp;))

**SciProfiles** (<https://sciprofiles.com/profile/108625>)

*Section Editor-in-Chief*



Department of Analytical Chemistry, Nutrition and Bromatology, Faculty of Veterinary Science, University of Santiago de

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Compostela, 27002 Lugo, Spain

**Interests:** food safety; analytical chemistry; food microbiology; antimicrobial resistant bacteria; food-borne pathogens; transcriptomics; genotyping; chromatography; mass spectrometry; biofilms; antimicrobial detection; Microbiome

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**Prof. Dr. Jeffrey Lipman**

[Website \(https://btccrc.centre.uq.edu.au/profile/30/jeffrey-lipman\)](https://btccrc.centre.uq.edu.au/profile/30/jeffrey-lipman)

*Section Editor-in-Chief*

Discipline of Anaesthesiology and Critical Care, The University of Queensland School of Medicine, Department of Intensive Care Medicine, Royal Brisbane and Women's Hospital, Herston, QLD 4029, Australia

**Interests:** antibiotic administration (particularly pharmacokinetics); pharmacodynamics; clinical trials

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**Prof. Dr. Anders Løbner-Olesen**

[Website \(https://www1.bio.ku.dk/english/staff/?pure=en/persons/63999\)](https://www1.bio.ku.dk/english/staff/?pure=en/persons/63999)

[SciProfiles \(https://sciprofiles.com/profile/176245\)](https://sciprofiles.com/profile/176245)

*Section Editor-in-Chief*

Department of Biology, University of Copenhagen, 2200 Copenhagen, Denmark

**Interests:** bacterial cell cycle; mechanism and regulation of chromosomal replication initiation; initiator proteins; DNA methylation; antibiotic inhibition of chromosome replication; designing whole cell screens for discovery of new antibiotics; antimicrobial peptides

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**Dr. Serena Riela**

[Website \(https://pure.unipa.it/en/persons/serena-riela-4\)](https://pure.unipa.it/en/persons/serena-riela-4) [SciProfiles \(https://sciprofiles.com/profile/400704\)](https://sciprofiles.com/profile/400704)

*Section Editor-in-Chief*

Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo Viale delle Scienze, 90128 Palermo, Italy

**Interests:** organic chemistry; synthesis; drug delivery; conjugates; hallosyte nanotubes; carrier systems; nanomaterials; biocompatible materials

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**Dr. Jean-Marc Sabatier**

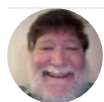
[Website \(https://sciprofiles.com/profile/11509\)](https://sciprofiles.com/profile/11509) [SciProfiles \(https://sciprofiles.com/profile/11509\)](https://sciprofiles.com/profile/11509)

*Section Editor-in-Chief*

Laboratory INSERM UMR 1097, Aix-Marseille University, 163, Parc Scientifique et Technologique de Luminy, Avenue de Luminy, Bâtiment TPR2, Case 939, 13288 Marseille, France

**Interests:** antimicrobial peptides; antibacterial; antibiotics; structure-activity relationships; bacteriocins; drug design; peptide engineering

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**Prof. Dr. William N. Setzer**

[Website \(https://www.uah.edu/science/departments/chemistry/chemistry-faculty-staff/william-setzer\)](https://www.uah.edu/science/departments/chemistry/chemistry-faculty-staff/william-setzer)

[SciProfiles \(https://sciprofiles.com/profile/90636\)](https://sciprofiles.com/profile/90636)

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*Section Editor-in-Chief*

Department of Chemistry, University of Alabama in Huntsville, Huntsville, AL, USA

**Interests:** natural product drug discovery; phytochemistry; essential oils; chemical ecology; molecular modeling

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**Prof. Dr. Jesus Simal-Gandara**

**★** [\\_ \(https://recognition.webofsciencgroup.com/awards/highly-cited/2020/\)](https://recognition.webofsciencgroup.com/awards/highly-cited/2020/) **Website** (<https://www.uvigo.gal/es/universidad/administracion-personal/pdi/jesus-simal-gandara>) **SciProfiles** (<https://sciprofiles.com/profile/39954>)

*Section Editor-in-Chief*

Department of Analytical Chemistry and Food Science, Faculty of Food Science and Technology, University of Vigo, Ourense Campus, E-32004 Ourense, Spain

**Interests:** phenolic compounds; antioxidants; marine drugs; food safety; bioaccessibility; functional foods

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**Dr. Manuel Simões**

**Website** ([https://paginas.fe.up.pt/~lepabe/m\\_sim%C3%B5es.html](https://paginas.fe.up.pt/~lepabe/m_sim%C3%B5es.html)) **SciProfiles** (<https://sciprofiles.com/profile/76455>)

*Section Editor-in-Chief*

LEPABE, Department of Chemical Engineering, Faculty of Engineering, University of Porto, Rua Roberto Frias, s/n, 4200-465 Porto, Portugal

**Interests:** antimicrobial agents; emerging antimicrobial strategies; antimicrobial resistance; biofilms; plant secondary metabolites

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**Dr. Anthony William Coleman**

**Website** (<https://www.researchgate.net/profile/Anthony-Coleman-4>) **SciProfiles** (<https://sciprofiles.com/profile/540579>)

*Section Editor-in-Chief*

LMI CNRS UMR 5615, Université Lyon 1, 69622 Villeurbanne, France

**Interests:** biomechanics; silver nanoparticle antibiotic action; metal ions in epigenetics; bioactive supramolecular systems; 3D printing and biofilms

**[Special Issues, Collections and Topics in MDPI journals](#)**

**Prof. Dr. John E. Gustafson**

**Website** (<http://biochemistry.okstate.edu/faculty/dr.-john-gustafson/dr.-john-e.-gustafson>)

*Section Editor-in-Chief*

Department of Biochemistry and Molecular Biology, 246C Noble Research Center, Oklahoma State University, Stillwater, OK 74078-3035, USA

**Interests:** antibiotic resistance; the effects of essential oils/antiseptics/disinfectants on bacteria; Staphylococcus aureus; Elizabethkingia

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**Prof. Dr. Max Maurin**

**Website** (<http://fr.viadeo.com/fr/profile/max.maurin>) **SciProfiles** (<https://sciprofiles.com/profile/924869>)

*Section Editor-in-Chief*

1. Centre National de Référence des Francisella, Institut de Biologie et de Pathologie, Centre Hospitalier Universitaire Grenoble Alpes, Grenoble, France

2. Université Grenoble Alpes, Centre National de la Recherche Scientifique, TIMC-IMAG, Grenoble, France

**Interests:** clinical microbiology; antibiotic susceptibility testing of intracellular bacteria; antibiotic treatment of zoonosis

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Dr. **Mehran Monchi**

**Website** (<http://www.ghsif.fr/>) **SciProfiles** (<https://sciprofiles.com/profile/1990746>)

Section Editor-in-Chief

Intensive care medicine, Centre Hospitalier de Melun, Melun, France

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**Interests:** bloodstream infections; abdominal infections; lung infections, candidemia and invasive fungal infections; COVID-19; new classes of antibiotics

## Editorial Board Members (435)

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**Prof. Dr. Andrew Abell**

**Website** (<http://researchers.adelaide.edu.au/profile/andrew.abell>) **SciProfiles** (<https://sciprofiles.com/profile/12966>)

Department of Chemistry, The University of Adelaide, North Terrace, Adelaide 5005, Australia

**Interests:** reversible sensors; peptidomimetics; photochemistry; electrochemical biosensors; combined imaging and sensing platforms

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Pharmaceuticals: Peptidomimetics*** ([/journal/pharmaceuticals/special\\_issues/pharma\\_pepti](/journal/pharmaceuticals/special_issues/pharma_pepti))



**Dr. Wolf-Rainer Abraham**

**Website** (<https://gepris.dfg.de/gepris/person/258417?context=person&task=showDetail&id=258417x%x%>)

**SciProfiles** (<https://sciprofiles.com/profile/137931>)

Department of Chemical Microbiology, Helmholtz Centre for Infection Research, Braunschweig, Germany

**Interests:** biofilms; quorum sensing quenchers; biofilm dispersion; immunomodulators; fungal antimicrobials; bacterial phylogeny



**Dr. Nehal I Abu-Lail**

**Website** (<https://engineering.utsa.edu/biomedical/team/nehali-abu-lail/>)

Department of Biomedical Engineering and Chemical Engineering, The University of Texas at San Antonio, San Antonio, TX 78249, USA

**Interests:** how cells interact with surfaces under stress for biomedical and environmental applications; Tissue engineering of articular cartilage, bacterial adhesion, atomic force microscopy, and biomechanics

**Dr. Tetsuya Adachi**

**Website** (<https://researchmap.jp/cd4?lang=en>) **SciProfiles** (<https://sciprofiles.com/profile/721070>)

Department of Dental Medicine, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kamigyo-ku, Kyoto 602-8566, Japan

**Interests:** biomaterials; dental medicine; bio-imaging

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Antipathogenic Effects and Their Molecular Imaging in Dental and Orthopedic Research*** ([/journal/antibiotics/special\\_issues/antipathogenic\\_dental](/journal/antibiotics/special_issues/antipathogenic_dental))

**Dr. Chiara Adembri**

**Website** (<https://www.unifi.it/p-doc2-2018-0-A-2b333b2c3528-0.html>)

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Department of Health Sciences, Universita' degli Studi di Firenze, Florence, Italy

**Interests:** antimicrobial PK PD; sepsis; critical care patients



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**Prof. Dr. Juhee Ahn**

**Website** ([https://scholar.google.com/citations?hl=en&user=epA3hQUAAA&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=epA3hQUAAA&view_op=list_works&sortby=pubdate))

**SciProfiles** (<https://sciprofiles.com/profile/837550>)

Department of Medical Biomaterials Engineering, Kangwon National University, Chuncheon, Gangwon 24341, Korea

**Interests:** microbial pathogenesis; phage control; antibiotic resistance mechanism; food safety

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Microorganisms: Control and Detection of Multiple Antibiotic Resistant Pathogens\*\*\*](#) ([/journal/microorganisms/special\\_issues/control\\_detection\\_antibiotic\\_resistance](/journal/microorganisms/special_issues/control_detection_antibiotic_resistance))

Special Issue in [\*\*\*Pathogens: Foodborne Pathogen Biofilms: Development, Detection, Control, and Antimicrobial Resistance\*\*\*](#) ([/journal/pathogens/special\\_issues/foodbornepathogens\\_biofilms](/journal/pathogens/special_issues/foodbornepathogens_biofilms))

Special Issue in [\*\*\*Microorganisms: Control and Detection of Multiple Antibiotic Resistant Pathogens 2.0\*\*\*](#) ([/journal/microorganisms/special\\_issues/control\\_detection\\_antibiotic\\_resistance\\_2](/journal/microorganisms/special_issues/control_detection_antibiotic_resistance_2))



**Prof. Dr. Majdi N. Al-Hasan**

**Website** ([https://sc.edu/study/colleges\\_schools/medicine/about\\_the\\_school/faculty-staff/al-hasan\\_majdi.php](https://sc.edu/study/colleges_schools/medicine/about_the_school/faculty-staff/al-hasan_majdi.php))

**SciProfiles** (<https://sciprofiles.com/profile/552337>)

School of Medicine, University of South Carolina, Columbia, SC 29208, USA

**Interests:** antimicrobial stewardship; antimicrobial resistance; bloodstream infections; sepsis; gram-negative bacteria; antibiotics; antibacterial agents; urinary tract infections

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: Gram-Negative Bloodstream Infections\*\*\*](#) ([/journal/antibiotics/special\\_issues/Bloodstream\\_Antibiotics](/journal/antibiotics/special_issues/Bloodstream_Antibiotics))

Special Issue in [\*\*\*Pharmacy: Antimicrobial Stewardship across the Continuum of Care\*\*\*](#) ([/journal/pharmacy/special\\_issues/Antimicrobial\\_Stewardship\\_Care](/journal/pharmacy/special_issues/Antimicrobial_Stewardship_Care))

**Dr. Bahar Aliakbarian**

**Website** (<https://www.canr.msu.edu/people/bahar-aliakbarian-ph-d->)

Supply Chain Management and School of Packaging, Michigan State University, 715 E. Main Street, Suite 115, Midland, MI 48640, USA

**Interests:** Food and Pharmaceutical Sustainability; Smart Packaging; Active Packaging; Food Waste; Extraction; Supply Chain; Traceability

**Dr. Maria Antonia Alvarez Fernandez**

**Website** (<https://publons.com/researcher/1466232/maria-antonia-alvarez-fernandez/publications/>)

**SciProfiles** (<https://sciprofiles.com/profile/438188>)

Department of Nutrición, Bromatología, Toxicología y Medicina Legal, Universidad de Sevilla, Sevilla, Spain

**Interests:** Saccharomyces; non Saccharomyces; amino acids; intracellular extraction; Mass Spectrometry; liquid chromatography; analytical chemistry

**Dr. Simone Ambretti**

**Website** (<https://loop.frontiersin.org/people/643013/overview>)

IRCCS Azienda Ospedaliera, Universitaria di Bologna, Policlinico di S.Orsola, Bologna, Italy

**Interests:** antimicrobial resistance

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Microorganisms: Carbapenemase Producing Enterobacteriaceae\*\*\*](#) ([/journal/microorganisms/special\\_issues/Carbapenemase\\_Producing\\_Enterobacteriaceae](/journal/microorganisms/special_issues/Carbapenemase_Producing_Enterobacteriaceae))

Special Issue in [\*\*\*Antibiotics: Multi-Drug Resistant Gram-Negative Infections: Molecular Epidemiology, Microbiological\*\*\*](#)

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**Diagnosis and Antimicrobial Treatment (/journal/antibiotics/special\_issues/GramNegative\_Infections)****Prof. Dr. Konstantinos Anagnostakos****Website** (<http://www.klinikum-saarbruecken.de/fachabteilungen/orthopaedie-und-unfallchirurgie>)  

Zentrum für Orthopädie und Unfallchirurgie, Klinikum Saarbrücken, Saarbrücken, Germany

**Interests:** primary and revision joint arthroplasty of hip and knee; diagnostics and therapy of bone and joint infections; local antibiotic therapy; antibiotic-loaded bone cement**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Antibiotics: Antibiotics in Orthopedic Infections (/journal/antibiotics/special\_issues/orthopedic\_infec)****Prof. Dr. Dan I. Andersson****★** (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) **Website** (<http://katalog.uu.se/emplInfo?id=XX3213>)

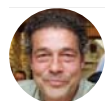
Department of Medical Biochemistry and Microbiology, Uppsala University, Uppsala Biomedicinska Centrum BMC, Husarg. 3, 751 23 Uppsala, Sweden

**Interests:** antibiotic resistance mechanisms; antibiotic action; bacterial genetics; molecular and experimental evolution**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Antibiotics: Antibiotic Resistance (/journal/antibiotics/special\_issues/resistance)****Dr. Alfredo Angeles-Boza****Website** (<https://angeles-boza.chemistry.uconn.edu/research/>) **SciProfiles** (<https://sciprofiles.com/profile/131973>)

Department of Chemistry and Center for Microbial Systems, Ecology and Evolution, University of Connecticut, Storrs, CT, USA

**Interests:** antimicrobial peptides; antibiotic resistance; multi-drug resistance; biofilms; biomaterials; metallodrugs**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Antibiotics: Mining for New Antibiotics (/journal/antibiotics/special\_issues/mining\_antibiotics)****Prof. Dr. Italo Francesco Angelillo****Website** (<http://www.medicinasperimentale.unicampania.it/dipartimento/docenti?MATRICOLA=058704>)**SciProfiles** (<https://sciprofiles.com/profile/609017>)

Dipartimento di Medicina Sperimentale, Università degli Studi della Campania "Luigi Vanvitelli", Naples, Italy

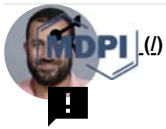
**Interests:** antibiotic use; antibiotic resistance; observational studies; qualitative research**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Antibiotics: Antibiotics Use and Antimicrobial Resistance in Hospital (/journal/antibiotics/special\_issues/anti\_use\_hospital)****Prof. Dr. Jesús F. Aparicio****Website** (<https://www.unileon.es/estudiantes/estudios/oferta-de-estudios/primer-segundo-ciclo?cod=0203175>)**SciProfiles** (<https://sciprofiles.com/profile/1135325>)

Department of Molecular Biology, Universidad de León, 24071 Leon, Spain

**Interests:** gene regulation; secondary metabolism; streptomyces; polyketides; polyenes; antifungals**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Antibiotics: Challenges and Opportunities in Antibiotic Biosynthesis and Development (/journal/antibiotics/special\_issues/Biosynthesis\_Antibiotics)****Prof. Dr. Tetsuo Asai****Website** (<https://www1.gifuu.ac.jp/~tetsuo/index.html>) **SciProfiles** (<https://sciprofiles.com/profile/1168555>)

Department of Applied Veterinary Sciences United GraduateSchool of Veterinary Sciences, Gifu, Japan

**Interests:** antimicrobial-resistant bacteria and resistance genes in animals and environment; selection, source, and transmission route**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Antibiotics: Antimicrobial-Resistant Pathogens Isolated from Animals and Their Products (/journal/antibiotics/special\_issues/pathogens\_animals)**



Dr. Hossam Ashour



**Website** (<https://www.usf.edu/arts-sciences/departments/ib/people/faculty/hossamashour.aspx>)

**SciProfiles** (<https://sciprofiles.com/profile/1118795>)

Department of Integrative Biology, College of Arts and Sciences, University of South Florida, St. Petersburg, FL, USA

**Interests:** immune tolerance; autoimmune diseases; multiple sclerosis; rheumatoid arthritis; type 1 diabetes; systemic lupus erythematosus; microbiology; infectious diseases; health; animal models; COVID-19

Dr. Juan Ayala

**Website** ([https://www.researchgate.net/profile/Juan\\_Ayala2](https://www.researchgate.net/profile/Juan_Ayala2)) **SciProfiles** (<https://sciprofiles.com/profile/1080466>)

Centro de Biología Molecular Severo Ochoa, 28049 Madrid, Spain

**Interests:** bacterial cell division; peptidoglycan structure; peptidoglycan metabolism; penicillin-binding proteins; beta-lactams; betalactamases; protein export; two-component systems

Dr. Ana Azevedo

**Website** (<https://www.scopus.com/authid/detail.uri?authorId=35563377100>)

**SciProfiles** (<https://sciprofiles.com/profile/1841762>)

1. Department of Public Health and Forensic Sciences and Medical Education, University of Porto Medical School, Porto, Portugal

2. Epidemiology Research Unit (EPIUnit) - Institute of Public Health of the University of Porto, Porto, Portugal

3. Hospital Epidemiology Center, Centro Hospitalar Universitário de São João, Porto, Portugal

**Interests:** quality improvement; outcomes research; quality indicators and audit; knowledge, attitudes and behaviors in prescription and antibiotic use; epidemiology of antibiotic use; implementation and evaluation of antimicrobial stewardship interventions; other points in epidemiology and quality and safety

Dr. Nuno F. Azevedo

**Website** ([https://paginas.fe.up.pt/~lepabe/nf\\_azevedo.html](https://paginas.fe.up.pt/~lepabe/nf_azevedo.html))

LEPABE, Department of Chemical Engineering, Faculty of Engineering of the University of Porto, Rua Dr Roberto Frias, 4200-465 Porto, Portugal

**Interests:** multispecies biofilms; nucleic acid mimics for therapy and diagnostics; development of hybridization-based techniques

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: New Insights on Biofilm Antimicrobial Strategies*** ([/journal/antibiotics/special\\_issues/biofilm\\_antimicro](/journal/antibiotics/special_issues/biofilm_antimicro))

Dr. Jeong Kyu Bang

**Website** ([https://use.kbsi.re.kr/html/user/equip/equip\\_view.php?e\\_code=AR15&pk=2016104046&page=thesis\\_view&cPage=18&gubn=&searchText1=&auth\\_year=](https://use.kbsi.re.kr/html/user/equip/equip_view.php?e_code=AR15&pk=2016104046&page=thesis_view&cPage=18&gubn=&searchText1=&auth_year=))

Protein Structure Research Group, Korea Basic Science Institute, 162 Yeongudanji-ro, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungbuk 28119, Korea

**Interests:** peptidomimetics; antimicrobial peptide; Structure activity relationship(SAR); Short peptide

Dr. John Barlow

**Website** ([https://www.uvm.edu/cals/asci/profiles/dr\\_john\\_barlow](https://www.uvm.edu/cals/asci/profiles/dr_john_barlow)) **SciProfiles** (<https://sciprofiles.com/profile/632619>)

Department of Animal and Veterinary Sciences, University of Vermont, Burlington, VT, USA

**Interests:** antibiotic resistance; epidemiology; molecular epidemiology; dairy cattle; veterinary science; bioinformatics; antimicrobial stewardship; One Health; zoonotic disease; staphylococci

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Staphylococcus spp. in Animals: Resistance to Antimicrobials, Virulence and Genetic Lineages*** ([/journal/antibiotics/special\\_issues/staphylococci\\_anti](/journal/antibiotics/special_issues/staphylococci_anti))

Dr. Michele Bartoletti

**Website** (<https://www.unibo.it/sitoweb/m.bartoletti>) **SciProfiles** (<https://sciprofiles.com/profile/1738903>)

Department of Medical and Surgical Sciences, University of Bologna, 40138 Bologna BO, Italy

**Interests:** multidrug-resistant bacteria; immunocompromised; carbapenem-resistant Enterobacterales; intensive care unit; critically ill patients; liver cirrhosis; solid organ transplantation; haematologic malignancies

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**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Infection Control and Antibiotic Use in Hospital](#)** ([/journal/antibiotics/special\\_issues/infection\\_hospital](#))



**Prof. Dr. Riccardo Bartoletti**

**Website** (<http://www.unipi.it>) **SciProfiles** (<https://sciprofiles.com/profile/1255360>)

Department of Translational Research and New Technologies in Medicine and Surgery University of Pisa, Pisa, Italy

**Interests:** urinary tract infections; sexually transmitted diseases; genital infections; preoperative antibiotic prophylaxis; antibiotic stewardship

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Difficult to Treat Infections in Urology](#)** ([/journal/antibiotics/special\\_issues/infection\\_Urology](#))

**Prof. Dr. Giovanna Batoni**

**Website1** ([https://www.researchgate.net/profile/Prof\\_Batoni](https://www.researchgate.net/profile/Prof_Batoni)) **Website2** (<https://unimap.unipi.it/cercapersone/dettaglio.php?ri=5698>) **SciProfiles** (<https://sciprofiles.com/profile/110309>)

Department of Translational Research and New Technologies in Medicine and Surgery, Università di Pisa, Pisa, Italy

**Interests:** antimicrobial peptides; biofilm infections; unconventional antimicrobials; wound infections; pulmonary infections; host response to infections; Pseudomonas aeruginosa; Mycobacterium tuberculosis

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Therapeutic Use of Antimicrobial Peptides: Joys and Sorrows](#)** ([/journal/antibiotics/special\\_issues/therapeutic\\_use](#))

Special Issue in **[International Journal of Molecular Sciences: Microbial Biofilms and Antibiofilm Agents](#)** ([/journal/ijms/special\\_issues/Biofilms\\_Antibiofilm](#))

Special Issue in **[International Journal of Molecular Sciences: Microbial Biofilms and Antibiofilm Agents 2.0](#)** ([/journal/ijms/special\\_issues/biofilms\\_antibiofilm\\_2](#))

**Dr. Arnold Bayer**

**Website** (<https://lundquist.org/arnold-bayer-md>)

Division of Infectious Diseases, Lundquist Institute for Biomedical Innovation, Harbor–UCLA Medical Center, Torrance, CA, USA

**Interests:** Staphylococcus aureus; Endocarditis; Antimicrobial Peptides

**Prof. Dr. Bryan Bellaire**

**Website** (<https://faculty.sites.iastate.edu/bbella/>)

College of Veterinary Medicine, Iowa State University, Ames, IA, USA

**Interests:** bacterial pathogenic mechanisms; antimicrobial resistance; drug delivery; Brucella; Burkholderia; Mycobacterium

**Prof. Dr. Alberto Berardi**

**Website** (<http://personale.unimore.it/rubrica/insegnamenti/aberardi>)

**SciProfiles** (<https://sciprofiles.com/profile/1531620>)

Neonatal Intensive Care Unit, Università degli Studi di Modena e Reggio Emiliadisabled, Modena, Italy

**Interests:** neonatal sepsis; neonatology; pediatric infectious diseases; sepsis; neonatal intensive care; neonatal medicine

**Dr. Christian Berens**

**Website** (<https://www.fli.de/de/institute/institut-fuer-molekulare-pathogenese-imp/wissenschaftler/dr-c-berens/>)

**SciProfiles** (<https://sciprofiles.com/profile/165383>)

Institute of Molecular Pathogenesis, Friedrich-Loeffler-Institut, 07743 Jena, Germany

**Interests:** antibiotic resistance mechanisms; regulation of antibiotic resistance; mechanisms of antibiotic action; tetracycline activity and resistance; molecular genetics

**Dr. Øivind Bergh**

Department of Oceanography and Climate, Institute of Marine Research, Bergen, Norway

**Interests:** disease transmission in aquatic environments; health of aquatic animals; aquaculture-environment interactions; marine spatial planning

**Prof. Dr. Paul M. Beringer**

**Website** (<https://pharmacyschool.usc.edu/paul-beringer/>)

Department of Clinical Pharmacy, University of Southern California, Los Angeles, CA 90089-9121, USA

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**Interests:** pharmacokinetics; pharmacodynamics; cystic fibrosis; host defense peptides

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Novel Strategies to Combat MDR Pathogens in CF*** ([/journal/antibiotics/special\\_issues/CF\\_antibiotics](https://www.mdpi.com/journal/antibiotics/special_issues/CF_antibiotics))

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**Prof. Dr. Luiz E Bermudez**

**Website** (<https://vetmed.oregonstate.edu/people/luiz-e-bermudez>)

Department of Biomedical Sciences, College of Veterinary Medicine Medicine, Oregon State University, Corvallis, OR, USA

**Interests:** mycobacteria; therapy and evolution of antibiotic resistance; pathogenic mechanisms

**Dr. Giulia Bernardini**

**Website** (<https://www.dbcf.unisi.it/it/dipartimento/personale/docenti/giulia-bernardini>)

**SciProfiles** (<https://sciprofiles.com/profile/797615>)

Department of Biotechnology Chemistry and Pharmacy, University of Siena, Siena, Italy

**Interests:** proteomics; immunoproteomics; *Helicobacter pylori*; drug discovery; natural compounds; mechanisms of action of antibiotics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***International Journal of Molecular Sciences: Advances in Molecular Biology and Targeted Therapy of Osteosarcoma*** ([/journal/ijms/special\\_issues/Osteosarcoma](https://www.mdpi.com/journal/ijms/special_issues/Osteosarcoma))

**Prof. Dr. Helen Billman-Jacobe**

**Website** (<https://www.findanexpert.unimelb.edu.au/display/person5725>)

**SciProfiles** (<https://sciprofiles.com/profile/966316>)

Department of Veterinary Biosciences, Faculty of Veterinary and Agricultural Science, University of Melbourne, Parkville, Australia

**Interests:** antibiotic stewardship; agriculture; veterinary; mycobacteria; heavy metals



**Dr. Jesus Blazquez**

**Website** (<http://ciencias.biomol.uam.es/node/363>) **SciProfiles** (<https://sciprofiles.com/profile/45247>)

Department of Microbial Biotechnology, CSIC - Centro Nacional de Biotecnología (CNB), Madrid, Spain

**Interests:** antibiotic resistance evolution; antibiotic action; bacterial genetics; DNA-repair; gene regulation; stress responses

**Dr. Guido Bloemberg**

**Website** (<https://www.ils.uzh.ch/de/Diagnostik/NENT.html>)

National Reference Centre for Enteropathogenic Bacteria and Listeria (NENT), University of Zurich, Zürich, Switzerland

**Interests:** microbiology; molecular biology

**Prof. Dr. Gianfranco Bocchini**

**Website** (<http://stc.uniroma2.it/personale/accademico/professori-associati/name/gianfranco-bocchini/>)

**SciProfiles** (<https://sciprofiles.com/profile/248369>)

Department of Chemical Science and Technologies, Tor Vergata University of Rome, 00133 Rome, Italy

**Interests:** molecular dynamics simulations; antimicrobial peptides; peptidomimetics; proteins; carbohydrates



**Prof. Dr. Giovanni Di Bonaventura**

**Website** (<https://www.unich.it/ugov/person/1720>) **SciProfiles** (<https://sciprofiles.com/profile/604908>)

Department of Medical, Oral and Biotechnological Sciences, Center for Advanced Studies and Technology (CAST), “Gabriele d’Annunzio” University of Chieti-Pescara, 66100 Chieti, Italy

**Interests:** microbial biofilm; cystic fibrosis lung infection; *Stenotrophomonas maltophilia*; *Pseudomonas aeruginosa*; microbial interactions; antimicrobial peptides; antibiotics; antibiotic resistance; bacterial virulence

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Microorganisms: Clinical Implications of Microbial Biofilm*** ([/journal/microorganisms/special\\_issues](https://www.mdpi.com/journal/microorganisms/special_issues))

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[/microbial\\_biofilm](#))



**Prof. Dr. Robert A. Bonomo**

**Website** (<https://case.edu/medicine/pqhs/education/clinical-research/clinical-research-faculty/robert-bonomo>)

**SciProfiles** (<https://sciprofiles.com/profile/672238>)

Department of Medicine, Case Western Reserve University School of Medicine, Cleveland, OH, USA

**Interests:** ESBLs;  $\beta$ -lactamase inhibitors; antimicrobial resistance; antimicrobial agents; molecular epidemiology

**Dr. Anabela Portela Borges**

**Website** ([https://www.lepabe.fe.up.pt/a\\_borges.html](https://www.lepabe.fe.up.pt/a_borges.html)) **SciProfiles** (<https://sciprofiles.com/profile/444099>)

Laboratory for Process Engineering, Environment, Biotechnology and Energy (LEPABE), Department of Chemical Engineering, Faculty of Engineering, University of Porto, 4099-002 Porto, Portugal

**Interests:** bacterial infection; multidrug-resistance; biofilms; phytochemicals; strategies of biofilm prevention and control; quorum-sensing; quorum-quenching; virulence attenuators; drug-repurposing; molecular docking

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Nature Inspired Antibiotic Adjuvants to Face the Problem of Multidrug Resistance and Biofilm Infections](#)** ([/journal/antibiotics/special\\_issues/multidrug\\_biofilm](/journal/antibiotics/special_issues/multidrug_biofilm))

**Prof. Dr. Pavel Bostik**

**Website** (<https://www.lfhk.cuni.cz/Faculty/Organization-structure/Person/913215/>)

**SciProfiles** (<https://sciprofiles.com/profile/102422>)

Institute of Clinical Microbiology, Charles University, Faculty of Medicine in Hradec Kralove and University Hospital, 500 05 Hradec Kralove, Czech Republic

**Interests:** antibiotic use; antibiotic resistance, molecular biology, hospital infections, natural compounds

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Hospital Acquired Infections, Multidrug Resistant \(MDR\) Bacteria, Alternative Approaches to Antibiotic Therapy](#)** ([/journal/antibiotics/special\\_issues/Hospital\\_Acquired](/journal/antibiotics/special_issues/Hospital_Acquired))

Special Issue in **[Microorganisms: Virulence of Viruses and Their Interaction with the Immune System](#)** ([/journal/microorganisms/special\\_issues/virulence\\_immune](/journal/microorganisms/special_issues/virulence_immune))

Special Issue in **[Antibiotics: Clinically Important Pathogens, Antimicrobial Resistance in ESKAPE Group of Bacteria](#)** ([/journal/antibiotics/special\\_issues/Clinically\\_ESKAPE](/journal/antibiotics/special_issues/Clinically_ESKAPE))

**Prof. Dr. Alain Bousquet-Mélou**

**Website** (<https://orcid.org/0000-0002-7661-4311>)

Laboratory of Physiology, Ecole Nationale Veterinaire de Toulouse, Toulouse, France

**Interests:** animal health; pharmacokinetics; pharmacology; veterinary medicine; antimicrobial resistance; pharmacodynamics; antibiotics; pharmacokinetic/pharmacodynamic modeling; pathogens; clinical pharmacokinetics

**Prof. Dr. Emilio Bouza**

**Website1** (<https://www.ucm.es/dptomedicina/personal>) **Website2** ([https://scholar.google.com/citations?hl=en&user=IjJETOYAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=IjJETOYAAAAJ&view_op=list_works&sortby=pubdate))

1. Clinical Microbiology and Infectious Diseases, Hospital General Universitario Gregorio Marañón (HGUGM), Madrid, Spain
2. Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, Spain
3. CIBER Enfermedades Respiratorias-CIBERES, Madrid, Spain
4. Medicine Department, Faculty of Medicine, Universidad Complutense de Madrid, Madrid, Spain

**Interests:** nosocomial infections; antimicrobial stewardship

**Dr. Filip Boyen**

**Website** (<https://biblio.ugent.be/publication?text=Boyen%2C+filip>) **SciProfiles** (<https://sciprofiles.com/profile/1369064>)

Department of Pathology, Bacteriology and Avian diseases, Faculty of Veterinary Medicine, Ghent University, 9820 Merelbeke, Belgium

**Interests:** veterinary bacteriology; MALDI-TOF



**Prof. Dr. Jarl Bøgwald**

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**Website** ([https://uit.no/om/enhet/ansatte/person?p\\_document\\_id=617526&p\\_dimension\\_id=88166](https://uit.no/om/enhet/ansatte/person?p_document_id=617526&p_dimension_id=88166))

Norwegian College of Fishery Science, Faculty of Biosciences, Fisheries and Economics, University of Tromsø, The Arctic University of Norway, N-9037 Tromsø, Norway

**Interests:** fish immunology; fish vaccinology; fish diseases both bacterial and viral; fish pathogens



#### Dr. Dominique Breilh

**Website** (<https://www.chu-bordeaux.fr/Les-m%C3%A9decins/BREILH-DOMINIQUE/>)

Pharmacokinetics et Clinical Pharmacy Lab, Université de Bordeaux - Collège des Sciences de la Santé - UFR Sciences, Bordeaux, France

**Interests:** pharmacokinetics; PK/PD; population PK; clinical pharmacy; e-Health; digital health; antibiotics; anti-cancer agents

#### Dr. Jürgen Brem

**Website** (<https://www.chem.ox.ac.uk/jurgen-brem.aspx>) **SciProfiles** (<https://sciprofiles.com/profile/486088>)

Department of Chemistry, the Ineos Oxford Institute for Antimicrobial Research, University of Oxford, Oxford, UK

**Interests:** antimicrobial resistance; novel antimicrobial agents; medicinal chemistry; fragment and structure based drug design; mechanistic enzymology

**Special Issues, Collections and Topics in MDPI journals**

Topics: **Novel Antimicrobial Agents: Discovery, Design and New Therapeutic Strategies** ([/topics/anti\\_agent](/topics/anti_agent))

#### Prof. Dr. Yves Briers

**Website** (<https://www.ugent.be/bw/biotechnology/en/research-units/schoonmeersen/research/applied-biotech>)

**SciProfiles** (<https://sciprofiles.com/profile/321078>)

Laboratory of Applied Biotechnology, Ghent University, Ghent, Belgium

**Interests:** bacteriophages; lysins; enzyme-based antibiotics; depolymerases; tail fibers

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Viruses: Phage Lytic Enzymes and Their Applications** ([/journal/viruses/special\\_issues/phage\\_lytic\\_enzymes](/journal/viruses/special_issues/phage_lytic_enzymes))



#### Dr. Jean Michel Brunel

**Website** (<https://www.researchgate.net/profile/Jean-Brunel>)

Faculté de pharmacie, Aix-Marseille Université, UMR MD1, U1261, Provence, France

**Interests:** polyamine synthesis; antibiotic adjuvants; Gram-negative bacteria

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Marine Drugs: Synthesis of Marine Natural Products** ([/journal/marinedrugs/special\\_issues/synthesis\\_MNP](/journal/marinedrugs/special_issues/synthesis_MNP))

Special Issue in **Antibiotics: Antibiotic or Antibiotic Adjuvant Synthesis and Antimicrobial Evaluation** ([/journal/antibiotics/special\\_issues/synthesis\\_evaluation](/journal/antibiotics/special_issues/synthesis_evaluation))

#### Dr. Philippe Bulet

**Website** (<http://cvscience.aviesan.fr/cv/1379/philippe-bulet>) **SciProfiles** (<https://sciprofiles.com/profile/1001367>)

Institute for Advanced Biosciences, Université Grenoble Alpes, F-38000 Grenoble, France

**Interests:** bioactive peptides; antimicrobial peptides; insect immunity; innate immunity; toxins; venoms; drug development; biomarker discovery; infection diseases; chronic diseases; microbiology; peptide and protein chemistry; mass spectrometry

#### Prof. Dr. Francesco Buonocore

**Website** (<http://www.unitus.it/it/dipartimento/dibaf>) **SciProfiles** (<https://sciprofiles.com/profile/928823>)

Department DIBAF, Tuscia University, Viterbo, Italy

**Interests:** fish immunology; marine biotechnology; animal antimicrobial peptides; bioactive peptides and protein; peptide biochemistry

#### Dr. Antonio Riccardo Buonomo

**Website** (<https://biography.omicsonline.org/italy/university-school-of-medicine-of-napoli-federico-ii/buonomo-antonio-riccardo-506629>)

Department of Clinical Medicine and Surgery, Section of Infectious Diseases, University of Naples "Federico II", Napoli, Italy

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**Interests:** emerging multi drug resistant bacteria; Infection control; new antibiotics for MDR infections

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Surgical Infections and Sepsis: Epidemiology, Prevention and Antimicrobial Chemotherapy**  
([/journal/antibiotics/special\\_issues/Surgical\\_Infections\\_and\\_Sepsis](https://journal/antibiotics/special_issues/Surgical_Infections_and_Sepsis)) [\(toggle desktop layout cookie\)](#)



#### Dr. Pierre-Régis Burgel

AP-HP Assistance Publique - Hopitaux de Paris, Paris, France

**Interests:** lung airway obstruction; cystic fibrosis; chronic obstructive pulmonary disease; Bronchiectasis; Pulmonology

#### Dr. Youngjoo Byun

**Website** (<http://medchem.korea.ac.kr>)

College of Pharmacy, Korea University, Sejong 30019, Korea

**Interests:** discovery and optimization of biofilm inhibitors; structure-based drug design; synthesis of biologically active molecules

#### Dr. Claudia Cafarchia

**Website** (<https://www.uniba.it/docenti/cafarchia-claudia/eng/claudia-cafarchia>)

**SciProfiles** (<https://sciprofiles.com/profile/485977>)

Department Dipartimento di Medicina Veterinaria, Università degli Studi di Bari, Valenzano (Bari), Italy

**Interests:** Aspergillus; antifungal profile; essential oils; plant extracts antifungal activities; Human blood stream infection; Animal mycosis

#### Prof. Dr. Michael Calcutt

**Website** ([http://vpbio.missouri.edu/faculty/Michael\\_Calcutt.html](http://vpbio.missouri.edu/faculty/Michael_Calcutt.html))

Department of Veterinary Pathobiology, University of Missouri, Columbia, MO 65211, USA

**Interests:** antimicrobial resistance; mobile genetic elements; bacterial genetics; bacterial genomics; mycoplasmas; antigenic variation

#### Prof. Dr. Xavier Calvet

**Website** (<https://www.uab.cat/web/the-department/government-1345664212762.html>)

Department of Medicine, Autonomous University of Barcelona, CIBERehd, Instituto de Salud Carlos III, Barcelona, Spain

**Interests:** Inflammatory bowel disease; H. pylori; H. pylori related diseases

#### Dr. Gregory Caputo

**Website1** (<https://works.bepress.com/gregory-caputo/>) **Website2** (<http://users.rowan.edu/~caputo/index.html>)

**SciProfiles** (<https://sciprofiles.com/profile/302732>)

Department of Chemistry and Biochemistry, Rowan University, Glassboro, NJ 08028, USA

**Interests:** antimicrobial peptides; antimicrobial surfaces; peptide-lipid interactions; spectroscopy; fluorescence; circular dichroism; thin films

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Antimicrobial Peptides, Polymers and Surfaces** ([/journal/antibiotics/special\\_issues/Antimicrobial\\_Peptides\\_Polymers](https://journal/antibiotics/special_issues/Antimicrobial_Peptides_Polymers))

#### Dr. Silvia T. Cardona

**Website** (<https://www.sci.umanitoba.ca/micro/profiles/silviacardona/>)

**SciProfiles** (<https://sciprofiles.com/profile/823448>)

1. Department of Microbiology, University of Manitoba, Winnipeg , MB R3T 2N2, Canada

2. Department of Medical Microbiology and Infectious Diseases, University of Manitoba, Winnipeg , MB R3T 2N2, Canada

**Interests:** antibiotic discovery; chemogenomics; essential genes; bacterial genetics; Burkholderia; Tn-seq; transposon mutagenesis; CRISPR

#### Dr. Alessia Carocci

**Website** (<https://www.uniba.it/docenti/carocci-alessia>) **SciProfiles** (<https://sciprofiles.com/profile/834556>)

Department of Pharmacy-Drug Science, University of Bari Aldo Moro, Bari, Italy

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**Interests:** biological active compounds; antimicrobials; antiarrhythmics; anticancers; melatonergic drugs; voltage-gated sodium channel blockers

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Synthesis and Pharmacokinetics of Antibiotics** ([/journal/antibiotics/special\\_issues/synthesis\\_pharm\\_kinetics](https://journal/antibiotics/special_issues/synthesis_pharm_kinetics))

Special Issue in **Antibiotics: Drug Repositioning in Antimicrobial Therapy** ([/journal/antibiotics/special\\_issues/drug\\_therapy](https://journal/antibiotics/special_issues/drug_therapy))



**Prof. Dr. Simone Carradori**

**Website** (<https://www.scopus.com/authid/detail.uri?authorId=12781515600>)

**SciProfiles** (<https://sciprofiles.com/profile/106325>)

Department of Pharmacy, University "G. d'Annunzio" of Chieti-Pescara, Chieti, Italy

**Interests:** medicinal chemistry; innovative (micro)extraction procedures; synthetic and naturally derived biologically active molecules; enzyme inhibitors; anti-microbial compounds

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Molecules: Innovative Extraction Techniques and Hyphenated Instrument Configuration for Complex Matrices Analysis** ([/journal/molecules/special\\_issues/complex\\_matrices\\_analysis](https://journal/molecules/special_issues/complex_matrices_analysis))

Special Issue in **Molecules: Natural Product Pharmacology and Medicinal Chemistry** ([/journal/molecules/special\\_issues/pharmacology](https://journal/molecules/special_issues/pharmacology))

Special Issue in **Molecules: Natural Active Agents Against Bacteria, Fungi and Parasites** ([/journal/molecules/special\\_issues/molecules\\_NAAABFaP](https://journal/molecules/special_issues/molecules_NAAABFaP))

Special Issue in **Molecules: Novel Biologically Active Molecules, Biomaterials and Nanoparticles for the Microbial Biofilm Control in Human Medicine** ([/journal/molecules/special\\_issues/Biofil](https://journal/molecules/special_issues/Biofil))

Special Issue in **Molecules: Natural Product Pharmacology and Medicinal Chemistry II** ([/journal/molecules/special\\_issues/pharmacology-II](https://journal/molecules/special_issues/pharmacology-II))

Special Issue in **Molecules: Natural Products and Their Semi-synthetic Derivatives against Bacteria, Fungi and Parasites** ([/journal/molecules/special\\_issues/Ag\\_Bac](https://journal/molecules/special_issues/Ag_Bac))

Special Issue in **Molecules: Natural Products and Their Semi-synthetic Derivatives against Bacteria, Fungi, and Parasites II** ([/journal/molecules/special\\_issues/NP\\_II](https://journal/molecules/special_issues/NP_II))

Special Issue in **Molecules: Novel Biologically Active Molecules, Biomaterials and Nanoparticles for the Microbial Biofilm Control in Human Medicine II** ([/journal/molecules/special\\_issues/Biofil\\_II](https://journal/molecules/special_issues/Biofil_II))

Topics: **Antioxidant Activity in Plants, Plant-Derived Bioactive Compounds and Foods** ([/topics/Anti\\_Foods](https://topics/Anti_Foods))

**Prof. Dr. Antonio Cascio**

**Website** (<https://www.unipa.it/persone/docenti/c/antonio.cascio03/en/?pagina=curriculum>)

**SciProfiles** (<https://sciprofiles.com/profile/359640>)

Department of Health Promotion, Mother and Child Care, Internal Medicine and Medical Specialties, University of Palermo, Palermo, Italy

Chief of the of Infectious Diseases Unit at AOU Policlinico "P. Giaccone "of Palermo, Via del Vespro 129, 90127 Palermo, Italy

**Interests:** treatment; tropical diseases; clinical assessment; infection; infectious disease epidemiology; PCR; emerging infectious diseases; immunology of infectious diseases; epidemiology; HIV

**Dr. Elio Castagnola**

**Website** (<https://www.emedevents.com/speaker-profile/elio-castagnola>)

Infectious Diseases Unit, Istituto Giannina Gaslini Children's Hospital, Genoa, Italy

**Interests:** Infections in cancer and SCT; Infections in neonate/newborn; Infections due to antibiotic resistant bacteria; Invasive mycoses

**Prof. Dr. Alessia Catalano**

**Website** (<https://www.uniba.it/docenti/catalano-alessia>) **SciProfiles** (<https://sciprofiles.com/profile/882419>)

Dipartimento di Farmacia, Scienze del Farmaco, Università di Bari, Bari, Italy

**Interests:** antibacterials; antifungals; antitumor agents; medicinal chemistry; toxicology; small molecules; antimyotonic agents

**Special Issues, Collections and Topics in MDPI journals**

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Special Issue in [\*\*\*Antibiotics: Searching for Small Molecules as Antimicrobials\*\*\*](#) ([/journal/antibiotics/special\\_issues/Molecules\\_Antimicro](#))

**Prof. Dr. Fausto Catena**



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**Website** (<https://www.ao.pr.it/curarsi/reparti-e-servizi-sanitari/chirurgia-durgenza/fausto-catena/>)

Emergency-Urgency Intercompany Department, Azienda Ospedaliero - Universitaria di Parma, 43126 Parma, Italy

**Interests:** intrabdominal infections

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: Antibiotic Prophylaxis for Surgical Site Infection in General Surgery\*\*\*](#) ([/journal/antibiotics/special\\_issues/Antibiotic\\_anti\\_Surgery](#))

Special Issue in [\*\*\*Antibiotics: Infection in Acute Care Surgery\*\*\*](#) ([/journal/antibiotics/special\\_issues/acute\\_care](#))

**Prof. Dr. Vincent Cattoir**

**Website** (<https://www.cnr-resistance-antibiotiques.fr/presentation-de-lequipe-3.html>)

**SciProfiles** (<https://sciprofiles.com/profile/1704389>)

CHU de Rennes, Service de Bactériologie-Hygiène Hospitalière, Rennes, France

**Interests:** antibiotic resistance; mechanisms and genetics of resistance; genomics and transcriptomics; enterococci; clinical and diagnostic microbiology

**Dr. Giancarlo Ceccarelli**

**Website** ([https://www.researchgate.net/profile/Giancarlo\\_Ceccarelli](https://www.researchgate.net/profile/Giancarlo_Ceccarelli))

Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy

**Interests:** hospital acquired infections; MDR infections; STD; special populations and migrants

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: Antibiotic Resistance and Intensive Care Unit\*\*\*](#) ([/journal/antibiotics/special\\_issues/anti\\_ICU](#))

Special Issue in [\*\*\*Biomedicines: New Advances in Pathogenesis and Treatment of HIV Infection: Molecular Insight and Preclinic Research\*\*\*](#) ([/journal/biomedicines/special\\_issues/HIV\\_biomedicines](#))

Special Issue in [\*\*\*Antibiotics: Antibiotic Therapy for Critically Ill Patients in the Age of COVID-19\*\*\*](#) ([/journal/antibiotics/special\\_issues/antibio\\_therapy\\_critcal\\_ill](#))

**Dr. Matteo Ceccarelli**

**Website** (<https://people.unica.it/matteoceccarelli/>) **SciProfiles** (<https://sciprofiles.com/profile/613427>)

Department of Physics, Università degli Studi di Cagliari and IOM/CNR, 09124 Cagliari CA, Italy

**Interests:** diffusive transport phenomena; small-molecule/water/ion transport; bacterial porins; siderophore transporters; nanopores; ion channels; aquaporins

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: Antibiotic Transport in Gram-Negative Bacteria\*\*\*](#) ([/journal/antibiotics/special\\_issues/Transport\\_Antibiotics](#))

**Dr. Laura Cendron**

**SciProfiles** (<https://sciprofiles.com/profile/827364>)

Department of Biology, University of Padova, 35122 Padova, Italy

**Interests:** antibiotic resistance; bacterial pathogens; functional and SAR studies; structural biology; biochemistry; recombinant proteins production

**Prof. Dr. Gregory L. Challis**

**Website** (<http://www2.warwick.ac.uk/fac/sci/chemistry/research/challis/challisgroup/challis/>)

Department of Chemistry, University of Warwick, Coventry CV4 7AL, UK

**Interests:** antibiotic biosynthesis; natural product discovery; biosynthetic engineering

**Dr. Subhash Chand**

**Website** (<https://mentis.uta.edu/explore/profile/subhash-chand>) **SciProfiles** (<https://sciprofiles.com/profile/1244159>)

Department of Anesthesiology University of Nebraska Medical Center, Omaha, NE 68198, USA

**Interests:** infectious diseases; HIV; exosome biology; proteomics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: Drug Resistance in COVID-19 Patients\*\*\*](#) ([/journal/antibiotics/special\\_issues/COVID-19\\_Antibiotics](#))

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**Dr. Michael L. Chikindas**

**MDPI**  
[SciProfiles \(https://sciprofiles.com/profile/1349480\)](https://sciprofiles.com/profile/1349480)

School of Environmental and Biological Sciences, The State University of New Jersey, 65 Dudley Road, New Brunswick, NJ 08901-8520, USA

**Interests:** natural antimicrobials; antimicrobial proteins; synergy; anti-biofilm; listeria; gardnerella; salmonella; probiotics; lactobacillus; bacillus

**Prof. Dr. Teena Chopra**

**Website** (<https://infectiousdiseases.med.wayne.edu/profile/ay1192>)

School of Medicines, Wayne State University, Detroit, MI, USA

**Interests:** medicine; clinical

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*Antibiotics: Antibiotic Stewardship during COVID-19\*](#) ([/journal/antibiotics/special\\_issues/Antibiotic\\_COVID-19](/journal/antibiotics/special_issues/Antibiotic_COVID-19))

**Prof. Dr. Myron Christodoulides**

**Website** (<https://www.southampton.ac.uk/medicine/about/staff/mc4.page>)

**SciProfiles** (<https://sciprofiles.com/profile/41341>)

Department of Molecular Microbiology, School of Clinical and Experimental Sciences, University of Southampton Faculty of Medicine, Southampton, UK

**Interests:** Gram-negative AMR pathogens; Neisseria gonorrhoeae; novel antimicrobial agents; vaccines for AMR pathogens; drug discovery

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*Venereology: Exclusive Papers of the Editorial Board Members of Venereology\*](#) ([/journal/venereology/special\\_issues/ven\\_EBM](/journal/venereology/special_issues/ven_EBM))

**Prof. Dr. Milan Čizman**

**Website1** ([http://www.sicris.si/public/jqm/rsr.aspx?lang=eng&opdescr=search&opt=2&subopt=300&code1=rsr&code2=&psize=1&hits=1&page=1&count=&search\\_term=15854&id=7186&slng=&order\\_by=](http://www.sicris.si/public/jqm/rsr.aspx?lang=eng&opdescr=search&opt=2&subopt=300&code1=rsr&code2=&psize=1&hits=1&page=1&count=&search_term=15854&id=7186&slng=&order_by=)) **Website2** ([https://www.researchgate.net/profile/Milan\\_Cizman](https://www.researchgate.net/profile/Milan_Cizman))

**SciProfiles** (<https://sciprofiles.com/profile/1628725>)

Department of Infectious Diseases, University Medical Centre Ljubljana, Japljeva 2, 1525 Ljubljana, Slovenia

**Interests:** antibiotic use; antimicrobial stewardship; antibiotic resistance; antimicrobial consumption; infectious disease epidemiology; primary care in children

**Prof. Dr. Anthony Clarke**

**Website** (<https://www.uoguelph.ca/mcb/people/dr-anthony-clarke>)

Department of Molecular and Cellular Biology, University of Guelph, Guelph, ON N1G 2W1, Canada

**Interests:** new antibacterial targets; bacterial cell walls; peptidoglycan; autolysins; O-Acetylation; antibiotic resistance; enzyme mechanisms

**Prof. Dr. Federico Coccolini**

**SciProfiles** (<https://sciprofiles.com/profile/1956094>)

General Emergency and Trauma Surgery, Pisa University Hospital, Pisa, Italy

**Interests:** trauma; emergency general surgery; infections; evidence based; registries; acute care



**Prof. Dr. Aidan Coffey**

**Website** (<http://www.cit.ie/biologicalsciences.staff.aidancoffey>) **SciProfiles** (<https://sciprofiles.com/profile/220424>)

Department of Biological Sciences, Cork Institute of Technology, Rossa Avenue, Cork, Ireland

**Interests:** characterization and exploitation of bacteriophages and bacteriophage-derived molecules as antimicrobial agents





**Dr. Mant Colin**

**Website1** (<https://som.ucdenver.edu/Profiles/Faculty/Profile/19016>) **Website2** (<https://www.ampdiscoveryllc.com/>)

Department of Chemistry, University of Colorado at Denver, Denver, CO, USA

**Interests:** HPLC and analysis of peptides and proteins; antibiotic resistance; novel peptides; novel antibiotics; novel antimicrobial peptides

**Dr. Peter John Coote**

**Website** ([https://risweb.st-andrews.ac.uk/portal/en/persons/peter-john-coote\(f9755be7-6cf9-4bc0-b055-ca8172527a5e\).html](https://risweb.st-andrews.ac.uk/portal/en/persons/peter-john-coote(f9755be7-6cf9-4bc0-b055-ca8172527a5e).html))

School of Biology, University of St Andrews, St Andrews, UK

**Interests:** galleria mellonella; combination therapy; MDR Gram-negative bacteria

**Prof. Dr. Teresa M. Coque**

**Website** (<https://www.ecoevobiome.com>)

Department of Microbiology, Ramón y Cajal Institute for Health Research, Ramón y Cajal University Hospital, Madrid, Spain

**Interests:** antibiotic resistance; microbiology; evolution; bioinformatics

**Prof. Dr. Carlo Corino**

**Website** ([https://animalnutritionresearch.files.wordpress.com/2009/09/cv-corino\\_eng.pdf](https://animalnutritionresearch.files.wordpress.com/2009/09/cv-corino_eng.pdf))

**SciProfiles** (<https://sciprofiles.com/profile/611323>)

Dipartimento di Medicina Veterinaria, Università degli Studi di Milano, Via dell'Università 6, 26900 Lodi, Italy

**Interests:** animal nutrition; nutrition and immunity; nutrition and meat quality; meat quality; monogastric nutrition; pig nutrition; fats and CLA in pig nutrition

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Animals: Recent Advances in Pig Nutrition*** ([/journal/animals/special\\_issues/Recent\\_Advances\\_in\\_Pig\\_Nutrition](/journal/animals/special_issues/Recent_Advances_in_Pig_Nutrition))

***Recent Advances in Pig Nutrition***

Special Issue in ***Antioxidants: Antioxidants in Animal Nutrition*** ([/journal/antioxidants/special\\_issues/animal\\_nutrition](/journal/antioxidants/special_issues/animal_nutrition))

Special Issue in ***Animals: Feeding Strategies to Minimize the Use of Antimicrobials and Zinc Oxide in Pig Production*** ([/journal/animals/special\\_issues/Antimicrobials\\_and\\_Zinc\\_Oxide\\_in\\_Pig\\_Production](/journal/animals/special_issues/Antimicrobials_and_Zinc_Oxide_in_Pig_Production))

Special Issue in ***Animals: Second Edition of Feeding Strategies to Minimize the Use of Antimicrobials and Zinc Oxide in Pig Production*** ([/journal/animals/special\\_issues/Antimicrobials\\_and\\_Zinc\\_Oxide\\_in\\_Pig\\_Production\\_Edition\\_II](/journal/animals/special_issues/Antimicrobials_and_Zinc_Oxide_in_Pig_Production_Edition_II))

**Dr. Marcello Covino**

**Website** (<https://docenti.unicatt.it/ppd2/it/docenti/51131/marcello-covino/profilo>)

**SciProfiles** (<https://sciprofiles.com/profile/1903829>)

Emergency Medicine, Fondazione Policlinico, Universitario A. Gemelli, IRCCS, Università Cattolica del Sacro Cuore, Roma, Italy

**Interests:** medical and surgical emergencies in older adults; acute diverticulitis; acute pancreatitis; sepsis, infection in emergency; procalcitonin; trauma; head trauma; early warning scores; COVID-19; COVID-19 in the elderly

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Antibiotic Resistance and Antimicrobial Use in Elderly Patients*** ([/journal/antibiotics/special\\_issues/Elderly\\_Patients](/journal/antibiotics/special_issues/Elderly_Patients))

**Dr. Lisa Crossman**

**Website1** ([https://people.uea.ac.uk/l\\_crossman/](https://people.uea.ac.uk/l_crossman/)) **Website2** (<http://microbesinnorwich.org/researcher/dr-lisa-crossman/>)

School of Biological Sciences, University of East Anglia (Honorary)

Director at SequenceAnalysis.co.uk Genomics

**Interests:** genomics; microbial epidemiology; bioinformatics; machine learning&deep learning

**Prof. Dr. Vito D'Andrea**

**Website** (<https://web.uniroma1.it/dscienzechir/users/vito-dandrea>)

Department of Surgical Science, Sapienza Università di Roma, Rome, Italy

**Interests:** general surgery; digestive surgery; endocrine surgery; emergency surgery; oncological surgery; vascular surgery; trauma

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Journal of Clinical Medicine: Clinical and Therapeutical Implications in Anatomical Variations*** ([/jcm/special\\_issues/Anatomical\\_Variations](/jcm/special_issues/Anatomical_Variations))

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Special Issue in [Journal of Clinical Medicine: Innovative Surgical Researches \(/journal/jcm/special\\_issues/Surgical\\_Researches\)](https://www.mdpi.com/journal/antibiotics/special_issues/Surgical_Researches)



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#### Dr. Marco Maria D'Andrea

[Website \(http://dottoratobee.uniroma2.it/?page\\_id=3376\)](http://dottoratobee.uniroma2.it/?page_id=3376) [SciProfiles \(https://sciprofiles.com/profile/907652\)](https://sciprofiles.com/profile/907652)

Department of Biology, University of "Tor Vergata", Rome, Italy

**Interests:** antibiotic resistance mechanisms; genetic bases for the diffusion of antibiotic resistance genes; microbial bioinformatics; new antimicrobial drugs; bacteriophages; bacteriophages as tools for phage therapy

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [Antibiotics: Updates on Novel Antimicrobial Agents and Strategies Against Pathogenic Bacteria \(/journal/antibiotics/special\\_issues/Antimicrobials\\_Agents\)](https://www.mdpi.com/journal/antibiotics/special_issues/Antimicrobials_Agents)

Special Issue in [Microorganisms: Bacteriophages and Their Components as Promising and Alternative Tools for the Control of Bacterial Pathogens \(/journal/microorganisms/special\\_issues/bacteriophages\\_pathogens\)](https://www.mdpi.com/journal/microorganisms/special_issues/bacteriophages_pathogens)

Special Issue in [Antibiotics: Antibiotics and Antibiotic Resistance in Aquatic Environments \(/journal/antibiotics/special\\_issues/Aquatic\\_Environments\\_\)](https://www.mdpi.com/journal/antibiotics/special_issues/Aquatic_Environments)

Special Issue in [Antibiotics: Updates on Novel Antimicrobials Agents and Strategies against Pathogenic Bacteria, 2nd Edition \(/journal/antibiotics/special\\_issues/anti\\_agent\\_2nd\)](https://www.mdpi.com/journal/antibiotics/special_issues/anti_agent_2nd)

#### Dr. Larry Danziger

[Website \(https://pharmacy.uic.edu/profiles/danziger/\)](https://pharmacy.uic.edu/profiles/danziger/)

Department of Pharmacy Practice , University of Illinois at Chicago, Chicago, IL 60612, USA

**Interests:** new antibiotics; antifungals



#### Dr. Michael Z. David

[Website \(https://www.dbei.med.upenn.edu/bio/michael-zdenek-david-ms-md-phd\)](https://www.dbei.med.upenn.edu/bio/michael-zdenek-david-ms-md-phd)

Department of Medicine, University of Pennsylvania, Philadelphia, PA 19104, USA

**Interests:** clinical and microbial epidemiology of Staphylococcus aureus; antimicrobial resistance; intrahost evolution of bacteria; MRSA



#### Prof. Dr. Cesar de la Fuente-Nunez

[Website \(https://delafuentelab.seas.upenn.edu/\)](https://delafuentelab.seas.upenn.edu/)

Machine Biology Group, Departments of Psychiatry and Microbiology, Institute for Biomedical Informatics, Institute for Translational Medicine and Therapeutics, Perelman School of Medicine, Penn Institute for Computational Science, and Department of Bioengineering, University of Pennsylvania, Philadelphia, PA, USA

**Interests:** antibiotic discovery; synthetic biology; computational biology; microbiology; antimicrobial peptides; microbiome engineering

#### Prof. Dr. Hermínia de Lencastre

[Website \(https://www.itqb.unl.pt/research/biology/molecular-genetics/molecular-genetics#GM\)](https://www.itqb.unl.pt/research/biology/molecular-genetics/molecular-genetics#GM)

1. Laboratory of Molecular Genetics, Microbiology of Human Pathogens Unit, Instituto de Tecnologia Química e Biológica António Xavier da Universidade Nova de Lisboa, Oeiras, Portugal

2. Laboratory of Microbiology and Infectious Diseases, The Rockefeller University, New York, NY, USA

**Interests:** epidemiology, genetics, evolutionary and biochemical mechanisms of antibiotic resistant pathogens

#### Prof. Dr. Francesco Giuseppe De Rosa

[Website \(https://medchirurgia.campusnet.unito.it/do/docenti.pl/Alias?francescogiuseppe.derosa#tab-profilo\)](https://medchirurgia.campusnet.unito.it/do/docenti.pl/Alias?francescogiuseppe.derosa#tab-profilo)

Dipartimento di Scienze Mediche, Università degli Studi di Torino, Turin, Italy

**Interests:** antimicrobial prophylaxis

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**Dr. María Auxiliadora Dea-Ayuela**

**Website 1** (<https://www.uchceu.es/directorio/mdea>) **Website 2** (<https://www.uchceu.es/grupos-lineas-investigacion/investigacion-en-salud-publica-insap>)

Departamento de Farmacia, Facultad de Ciencias de la Salud, Universidad Cardenal Herrera-CEU, Alira del Palmar, 46115 Valencia, Spain

**Interests:** antifungal; new antimicrobial natural products; methicillin-resistant *Staphylococcus aureus*

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Search of New Natural Products with Antimicrobial Activity](/journal/antibiotics/special_issues/Search_Natural)** ([/journal/antibiotics/special\\_issues/Search\\_Natural](/journal/antibiotics/special_issues/Search_Natural))

**Prof. Dr. Marina DellaGreca**

**Website** (<https://www.docenti.unina.it#!/professor/4d4152494e4144454c4c41204752454341444c4c4d524e36315335354936373753/riferimenti>)

Department of Chemical Sciences, University of Naples Federico II, Complesso Universitario Monte S. Angelo, 80126 Naples, Italy

**Interests:** natural products; spectroscopic technique; NMR; chromatographic techniques; organic synthesis; photochemistry

**Prof. Dr. Marc Devocelle**

**Website** (<https://www.rcsi.com/people/profile/mdevocelle>)

Department of Chemistry, Royal College of Surgeons in Ireland (RCSI), Dublin, Ireland

**Interests:** antimicrobial peptides; prodrugs; peptidomimetics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Molecules: Cell Penetrating Peptides \(CPPs\)](/journal/molecules/special_issues/PPP)** ([/journal/molecules/special\\_issues/PPP](/journal/molecules/special_issues/PPP))

Special Issue in **[Pharmaceuticals: Cell Penetrating Peptides \(CPPs\)](/journal/pharmaceuticals/special_issues/Cell-Penetrating-Peptides)** ([/journal/pharmaceuticals/special\\_issues/Cell-Penetrating-Peptides](/journal/pharmaceuticals/special_issues/Cell-Penetrating-Peptides))

**Prof. Dr. Jeroen Dewulf**

**Website** (<https://biblio.ugent.be/person/801001256007>) **SciProfiles** (<https://sciprofiles.com/profile/1144584>)

Veterinary Epidemiology Unit, Department of Obstetrics, Reproduction and Herd health, Universiteit Gent, Ghent, Belgium

**Interests:** veterinary epidemiology; preventive veterinary medicine; antimicrobial use in Animals; antimicrobial resistance in animals; transmission of antimicrobial resistance from animals to humans; biosecurity in animal production

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Antimicrobial Stewardship in Veterinary Medicine](/journal/antibiotics/special_issues/anti_veterinary)** ([/journal/antibiotics/special\\_issues/anti\\_veterinary](/journal/antibiotics/special_issues/anti_veterinary))



**Dr. Neeraj Dhar**

**Website** (<https://www.vido.org/team/project-leaders-veterinarians/neeraj-dhar>)

**SciProfiles** (<https://sciprofiles.com/profile/1886270>)

Vaccine and Infectious Disease Organization, University of Saskatchewan, Saskatoon, SK, Canada

**Interests:** Infection biology; host–pathogen interactions; tuberculosis; antibiotics; persistence; microfluidics; single-cell imaging; microscopy

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Treatment of Mycobacterium tuberculosis: A Persisting Challenge](/journal/antibiotics/special_issues/themed_tuberculosis)** ([/journal/antibiotics/special\\_issues/themed\\_tuberculosis](/journal/antibiotics/special_issues/themed_tuberculosis))

**Dr. Mariagrazia Di Luca**

**Website** (<https://www.linkedin.com/in/mariagrazia-di-luca-39748735/>)

**SciProfiles** (<https://sciprofiles.com/profile/1488516>)

Department of Biology, University of Pisa, via San Zeno 37, 56127 Pisa, Italy

**Interests:** medical biofilms; persister cells; implant-associated infections; antimicrobial resistance; antimicrobial tolerance; bacteriophages; phage therapy; antimicrobials

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Development of Effective Antibacterial Treatment: Lessons from the Past and Novel](#)**

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**[Approaches \(/journal/antibiotics/special\\_issues/Infections\)](#)**Special Issue in **[Microorganisms: Feature Papers in Microbial Biofilms \(/journal/microorganisms/special\\_issues/F\\_M\\_B\)](#)**[\(/toggle\\_desktop\\_layout\\_cookie\)](#)**Prof. Dr. Antonello Di Paolo****[Website \(https://orcid.org/0000-0002-2661-6183\)](https://orcid.org/0000-0002-2661-6183)** **[SciProfiles \(https://sciprofiles.com/profile/121798\)](https://sciprofiles.com/profile/121798)**

Department of Clinical and Experimental Medicine, University of Pisa, 56126 Pisa PI, Italy

**Interests:** clinical pharmacokinetics; chemotherapeutic agents; therapeutic drug monitoring**[Special Issues, Collections and Topics in MDPI journals](#)**Special Issue in **[International Journal of Molecular Sciences: Cytotoxic Drugs in the Modern Era of Personalized Medicine: Are They Still of Value? \(/journal/ijms/special\\_issues/cytotoxic\\_drugs\)](#)**Special Issue in **[Separations: Chromatographic Methods in Therapeutic Drug Monitoring \(TDM\) \(/journal/separations/special\\_issues/chromatographic\\_methods\)](#)**Special Issue in **[Pharmaceutics: Study of Clinical Pharmacokinetics in Oncology Diseases \(/journal/pharmaceutics/special\\_issues/pharmacokinetics\\_oncology\)](#)****Prof. Dr. Gill Diamond****[Website \(https://louisville.edu/dentistry/departments/oralhealth/faculty/gill-diamond-phd\)](https://louisville.edu/dentistry/departments/oralhealth/faculty/gill-diamond-phd)****[SciProfiles \(https://sciprofiles.com/profile/66473\)](https://sciprofiles.com/profile/66473)**

Department of Oral Immunology and Infectious Diseases, University of Louisville School of Dentistry, Louisville, KY 40292, USA

**Interests:** regulation of innate immunity; antimicrobial peptides; antifungal peptides; defensins; cathelicidins; novel antiviral compounds**[Special Issues, Collections and Topics in MDPI journals](#)**Special Issue in **[Journal of Fungi: Antifungal Peptides 2020 \(/journal/jof/special\\_issues/Antifungal\\_Peptides\\_2020\)](#)****Dr. Alfredo Dileo****[Website \(https://www.uniba.it/docenti/di-leo-alfredo\)](https://www.uniba.it/docenti/di-leo-alfredo)** **[SciProfiles \(https://sciprofiles.com/profile/1004764\)](https://sciprofiles.com/profile/1004764)**

Section of Gastroenterology, Department of Emergency and Organ Transplantation, Università degli Studi di Bari, Bari, Italy

**Interests:** colon cancer; estrogen receptor; helicobacter pylori; hepatitis C; IBD**Prof. Dr. Jo-Anne R. Dillon****[Website \(https://medicine.usask.ca/profiles/microbiology-and-immunology/jo-anne-dillon.php\)](https://medicine.usask.ca/profiles/microbiology-and-immunology/jo-anne-dillon.php)**

Department of Biochemistry, Microbiology and Immunology, College of Medicine, c/o 120 Veterinary Road, Saskatoon, SK S7N 5E3, Canada

**Interests:** Neisseria gonorrhoeae; antimicrobial resistance; molecular epidemiology; diagnostics**[Special Issues, Collections and Topics in MDPI journals](#)**Special Issue in **[Antibiotics: Multi-Drug Resistant Neisseria gonorrhoeae \(/journal/antibiotics/special\\_issues/neisseria\\_gonorrhoeae\)](#)**Special Issue in **[Antibiotics: Antimicrobial Resistance in Neisseria gonorrhoeae: Surveillance, Molecular Diagnosis and Point-of-care Tests, Mechanisms of Resistance \(/journal/antibiotics/special\\_issues/Anti\\_res\\_Neisseria\\_gonorrhoeae\)](#)****Prof. Dr. Gabriel Dimitriou****[Website \(https://www.med.upatras.gr/index.php?r=faculty/view&id=215&lang=en\)](https://www.med.upatras.gr/index.php?r=faculty/view&id=215&lang=en)****[SciProfiles \(https://sciprofiles.com/profile/1848031\)](https://sciprofiles.com/profile/1848031)**

Department of Paediatrics, School of Medicine, University of Patras, Patra, Greece

**Interests:** neonatal mechanical ventilation; lung and respiratory muscle function; neonatal infections; antimicrobial stewardship in the NICU; RSV infections**[Special Issues, Collections and Topics in MDPI journals](#)**Special Issue in **[Antibiotics: Antibiotics and Neonatal Sepsis: Challenges and Opportunities \(/journal/antibiotics/special\\_issues/Antibiotics\\_Neonatal\\_Sepsis\)](#)****Dr. Nicoletta Ditaranto****[Website \(https://www.uniba.it/docenti/ditaranto-nicoletta\)](https://www.uniba.it/docenti/ditaranto-nicoletta)** **[SciProfiles \(https://sciprofiles.com/profile/490296\)](https://sciprofiles.com/profile/490296)**

Dipartimento di Chimica, Università degli Studi di Bari Aldo Moro, via, Orabona 4, 70126 Bari, Italy

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**Interests:** surface science; nanoantimicrobials; spectroscopy for chemical analysis

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Nanomaterials: Food Packaging Bionanocomposites](#)** ([/journal/nanomaterials/special\\_issues/Packaging\\_Bionanocomposites](#)) [\(toggle desktop layout cookie\)](#)



**Dr. Yolanda Saenz Dominguez**

**Website** (<https://www.cibir.es/en/item/14-yolanda-saenz-dominguez-en>)

**SciProfiles** (<https://sciprofiles.com/profile/81314>)

Área de Microbiología Molecular, Centro de Investigación Biomédica de La Rioja (CIBIR), Logroño, Spain

**Interests:** antimicrobial resistance; One Health; Pseudomonas aeruginosa; bacterial genomics; mobile genetic elements; biofilm; new antimicrobial agents

**Dr. Laurent Dortet**

**SciProfiles** (<https://sciprofiles.com/profile/926398>)

Faculty of Medicine, Paris-Saclay University, 92290 Le Kremlin-Bicêtre, France

**Interests:** carbapenemase; ESBL; Enterobacterales; rapid diagnostic tests; colistin; antimicrobial resistance

**Dr. Declan A Doyle**

**Website** (<https://www.southampton.ac.uk/biosci/about/staff/dad1v12.page>)

Biological Sciences, University of Southampton, Southampton, UK

**Interests:** antibiotics; efflux transporters; structural; biology of integral membrane proteins



**Prof. Dr. Djamel Drider**

**Website** (<https://www.scopus.com/authid/detail.uri?authorId=6603389799>)

**SciProfiles** (<https://sciprofiles.com/profile/902040>)

UMR Transfrontalière BioEcoAgro 1158, Université de Lille, Lille, France

**Interests:** antimicrobial peptides synthesized by the ribosomal; probiotics; microbial ecology; alternatives to antibiotics; antibiotic resistance; animal health; food bioconservation

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[International Journal of Molecular Sciences: Recent Advances in Antimicrobial Peptides](#)** ([/journal/ijms/special\\_issues/AMP2020](#))

Special Issue in **[Foods: Advanced Research of Lactic Acid Bacteria in Food Field](#)** ([/journal/foods/special\\_issues/LAB\\_Food](#))

Special Issue in **[Microorganisms: Bacteriocins: Academic Advances and Immediate Applications](#)** ([/journal/microorganisms/special\\_issues/Bacteriocins\\_Advances](#))

Special Issue in **[Microorganisms: Bacteria and Fungi Probiotics](#)** ([/journal/microorganisms/special\\_issues/Bacteria\\_Fungi\\_Probiotics](#))

**Prof. Dr. Karl Drlica**

**Website** (<https://phri.njms.rutgers.edu/faculty-and-research/faculty/karl-drlica/>)

**SciProfiles** (<https://sciprofiles.com/profile/1312299>)

Public Health Research Institute and Department of Microbiology, Biochemistry and Molecular Genetics, New Jersey Medical School, Rutgers Biomedical and Health Sciences, Newark, NJ, USA

**Interests:** antibiotic action and resistance; bacterial cell death; fluoroquinolones; gyrase; topoisomerase; reactive oxygen species

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Molecular Mechanisms of Stress-Mediated Bacterial Death](#)** ([/journal/antibiotics/special\\_issues/bacteria\\_death](#))

**Dr. Paul Dunman**

**Website** (<https://www.urmc.rochester.edu/people/27478844-paul-dunman>)

**SciProfiles** (<https://sciprofiles.com/profile/683281>)

Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642, USA

**Interests:** antimicrobial development; antibiotic resistance; MRSA; acinetobacter; drug efflux

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**Prof. Dr. Sigrun Eick**



**Website** ([https://www.paro.zmk.unibe.ch/ueber\\_uns/team/personen/prof\\_dr\\_eick\\_sigrun/index\\_ger.html](https://www.paro.zmk.unibe.ch/ueber_uns/team/personen/prof_dr_eick_sigrun/index_ger.html))

**SciProfiles** (<https://sciprofiles.com/profile/961188>)

Department of Periodontology, Laboratory of Oral Microbiology, School of Dental Medicine, University of Bern, Bern, Switzerland

**Interests:** antimicrobial therapy in dentistry; biofilms; antibiotics; alternatives to antibiotics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [Antibiotics: Alternatives to Antibiotics in Dentistry](#) ([/journal/antibiotics/special\\_issues/dentistry\\_](#))

Special Issue in [Antibiotics: Antimicrobial Strategies against Oral Pathogenic Bacteria and Biofilm](#) ([/journal/antibiotics/special\\_issues/oral\\_antimicrobial](#))

**Prof. Dr. José María Eiros-Bouza**

**Website** (<https://investigacion.uva.es/CawDOS//jsf/seleccionActividades>

[/seleccionActividades.jsf?id=8352bd45ebf87498&idioma=es&tipo=activ,&elmeucv=N](#))

Department Servicio de Microbiología, Hospital Universitario Río Hortega, Valladolid, Spain

**Interests:** clinical microbiology; respiratory virus; emerging infectious diseases

**Dr. Nuno Empadinhas**

**Website** ([http://www.cnbic.pt/research/department\\_group\\_show.asp?iddep=1221&idgrp=1282](http://www.cnbic.pt/research/department_group_show.asp?iddep=1221&idgrp=1282))

**SciProfiles** (<https://sciprofiles.com/profile/1377>)

Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal

**Interests:** biosynthesis; secondary metabolites; mycobacteria; gut microbiota; neurotoxins



**Prof. Dr. N.A. Michael Eskin**

**Website** (<https://umanitoba.ca/faculties/afs/dept/fhns/staff/eskin.html>)

Department of Food and Human Nutritional Sciences, Faculty of Agricultural and Food Sciences, University of Manitoba Winnipeg, MB R3T 2N2, Canada

**Interests:** edible oils; polyphenols; gums; nutraceuticals

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [Antibiotics: Botanicals and Antibiotic Resistance](#) ([/journal/antibiotics/special\\_issues/Botanicals](#))

Special Issue in [Foods: Advances of Ultrasound and Microwave Technology Application in Foods](#) ([/journal/foods/special\\_issues/ultrasound\\_microwave\\_foods](#))

**Dr. Jaime Esteban**

**Website** (<https://www.fjd.es/es/cuadro-medico/jaime-esteban-moreno>)

**SciProfiles** (<https://sciprofiles.com/profile/1138830>)

Departamento de Microbiología Clínica, Hospital, Universitario Fundación Jiménez Díaz, 28040 Madrid, Spain

**Interests:** biofilms; mycobacterium; non-tuberculous mycobacteria; prosthetic joint infections; implant-related infections

**Prof. Dr. Matthieu Eveillard**

**Website** (<https://www.univ-angers.fr/fr/acces-directs/annuaire-2/e/v/uduser-matthieu-eveillard-fr.html>)

1. Department of Clinical Microbiology, CHU Angers, Angers, France

2. CRCINA, Université de Nantes, Université d'Angers, Angers, France

**Interests:** multi-drug resistant bacteria; infection control; one health; clinical microbiology

**Dr. Anne Farewell**

**Website** ([https://cmb.gu.se/english/about\\_us/staff?languageld=100001&userId=xfaran](https://cmb.gu.se/english/about_us/staff?languageld=100001&userId=xfaran))

**SciProfiles** (<https://sciprofiles.com/profile/1223636>)

Department of Chemistry & Molecular Biology, Göteborgs Universitet, Gothenburg, Sweden

**Interests:** antibiotic resistance; bacterial conjugation; bacterial plasmids; bacterial gene regulation; E. coli; bacterial stress responses

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**Prof. Dr. Dimitrios Farmakiotis****Website** (<https://vivo.brown.edu/display/dfarmaki>)

Division of Infectious Diseases, The Warren Alpert Medical School of Brown University, Providence, RI, USA

**Interests:** fungal infections; Candida; Aspergillus; mucorales; antifungal resistance; CMV; COVID-19**Dr. Helena Felgueiras****Website** (<http://www.2c2t.uminho.pt/>) **SciProfiles** (<https://sciprofiles.com/profile/419647>)

Centre for Textile Science and Technology, University of Minho, Campus de Azurém, 4800-058 Guimarães, Portugal

**Interests:** biomaterials; antimicrobial agents; surface functionalization; polymer processing; biomolecules**Special Issues, Collections and Topics in MDPI journals**Special Issue in **[Antibiotics: Antimicrobial Action of Biomaterials \(/journal/antibiotics/special\\_issues/biomaterials\\_antibiotics\)](#)**Special Issue in **[Processes: Advances of Antimicrobial in Bioengineering \(/journal/processes/special\\_issues/Advances\\_Antimicrobial\)](#)**Special Issue in **[Antibiotics: New Biomolecules and Drug Delivery Systems as Alternatives to Conventional Antibiotics \(/journal/antibiotics/special\\_issues/Biomolecules\\_Antibiotics\)](#)**Special Issue in **[Polymers: Extraction of Cellulose-Based Polymers from Textile Wastes \(/journal/polymers/special\\_issues/Extr\\_Cellul\\_Based\\_Polym\)](#)**Special Issue in **[Nanomaterials: Biobased Nanoscale Drug Delivery Systems \(/journal/nanomaterials/special\\_issues/nano\\_drug\\_delivery\)](#)**Special Issue in **[Biomolecules: Bio-Based Co-Adjuvant Systems for Infection Control \(/journal/biomolecules/special\\_issues/Bio\\_Based\\_Co\\_Adjuvant\\_Systems\\_for\\_Infection\\_Control\)](#)**Special Issue in **[Nanomaterials: Untargeted versus Targeted Antimicrobial Nanomedicines \(/journal/nanomaterials/special\\_issues/nano\\_antimicrobial\\_nanomedicines\)](#)**Special Issue in **[International Journal of Molecular Sciences: Biomolecule-Based Biomaterials and Their Application in Drug Delivery Systems \(/journal/ijms/special\\_issues/biomolecule\\_biomaterials\)](#)**Special Issue in **[International Journal of Molecular Sciences: Frontiers in Antimicrobial Biomaterials \(/journal/ijms/special\\_issues/antimicro\\_biomaterials\)](#)**Special Issue in **[Antibiotics: Green Antimicrobials \(/journal/antibiotics/special\\_issues/green\\_antibiotics\)](#)****Prof. Dr. Vincenzo Ficarra****Website1** (<https://www.unime.it/it/persona/vincenzo-ficarra>) **Website2** (<https://www.researchgate.net/profile/Vincenzo-Ficarra>)

Department of Human and Paediatric Pathology, Gaetano Barresi, Urologic Section, University of Messina, Messina, Italy

**Interests:** prostate cancer; prognostics multivariate analysis; urologic oncology; laparoscopic urology; robotics & minimally invasive urology**Prof. Dr. Adolfo Figueiras****Website** (<https://www.usc.gal/saudep//persoa/adolfo-figueiras-guzman/?lang=en>)

Preventive Medicine and Public Health, University of Santiago de Compostela, Galicia, Spain

**Interests:** identify determinants of the misprescription, misdensing and misuse of antibiotics, by qualitative and quantitative methodology; design and developed cluster randomized trials to improve prescription, dispensing and use of antibiotics; systematic reviews of knowledge, attitudes related to misprescription, misdensing and misuse of antibiotics; health impact assessment**Special Issues, Collections and Topics in MDPI journals**Special Issue in **[Antibiotics: Impact of Pandemic of COVID-19 on Antibiotic Prescription/Sales and on Antibiotic Resistances \(/journal/antibiotics/special\\_issues/COVID\\_Antibiotics\)](#)****Prof. Dr. Maurizio Fraziano****Website** (<https://www.fibrosicisticaricerca.it/ricercatore/fraziano-maurizio/>)

Dipartimento di Biologia, Università degli Studi di Roma "Tor Vergata", Via della Ricerca Scientifica, Roma, Italy

**Interests:** tuberculosis; infections in immunocompromised host; multidrug resistant infections; novel antimicrobial approaches**Dr. Matiyahu Fridkin****SciProfiles** (<https://sciprofiles.com/profile/65424>)

Department Weizmann Institute of Science, Weizmann Institute of Science, Rehovot 76100, Israel

**Interests:** immuno and neuro modulating peptides; reversible modification of antimicrobial agents; pro drugs synthesis and

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delivery; drugs macro molecules conjugates; polymeric reagents



**Dr. Jonathan Frye**

**Website** (<https://www.ars.usda.gov/people-locations/person/?person-id=35856>)  [\(\(toggle\\_desktop\\_layout\\_cookie\)\)](#)  

**SciProfiles** (<https://sciprofiles.com/profile/838870>)

Bacterial Epidemiology & Antimicrobial Resistance Research, USDA ARS Russell Research Center (RRC), Athens, GA, USA

**Interests:** antimicrobial resistance; Salmonella; plasmids; genomics; zoonotic

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Genes: Genetics and Genomics of Zoonotic Foodborne Pathogens \(/journal/genes/special\\_issues/foodborne\\_pathogens\)](#)**

Special Issue in **[Antibiotics: Insights into Antibiotics in Human, Animal, and Agriculture: Resistance, Determinant, and Treatment \(/journal/antibiotics/special\\_issues/insights\\_antibiotics\)](#)**

**Prof. Dr. Jie Fu**

**Website** ([http://environment.fudan.edu.cn/en/Show.aspx?info\\_lb=264&flag=225&info\\_id=440](http://environment.fudan.edu.cn/en/Show.aspx?info_lb=264&flag=225&info_id=440))

Department of Environmental Science and Engineering, Huazhong University of Science and Technology, Wuhan, China

**Interests:** monitoring of antibiotic pollutants; treatment of antibiotic pollutants; antibiotic resistance genes (ARGs) in wastewater treatment plants (WWTPs)

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Antibiotics in the Environment and Removal Technology \(/journal/antibiotics/special\\_issues/Environment\\_Removal\)](#)**



**Prof. Dr. Ren-You Gan**

**Website** ([https://www.researchgate.net/profile/Ren\\_You\\_Gan](https://www.researchgate.net/profile/Ren_You_Gan)) **SciProfiles** (<https://sciprofiles.com/profile/80207>)

Research Center for Plants and Human Health, Institute of Urban Agriculture, Chinese Academy of Agricultural Sciences, Chengdu, China

**Interests:** natural products; essential oils; antibacterial; biofilm; antivirulence; nanoparticle

**Special Issues, Collections and Topics in MDPI journals**

Topical Collection in **[Antibiotics: Antimicrobial Resistance and Anti-Biofilms \(/journal/antibiotics/special\\_issues/conference\\_Biofilms\)](#)**

Special Issue in **[Life: Study of Gut Microbiota in the Regulation of Diseases and Health by Natural Products \(/journal/life/special\\_issues/Gut\\_Microbiotas\)](#)**

Special Issue in **[Antibiotics: The Antimicrobial and Antivirulent Effects of Natural Products and Their Nanoparticles \(/journal/antibiotics/special\\_issues/Nano\\_Antibiotics\)](#)**

Special Issue in **[Foods: Health Benefits of Dietary Polysaccharides on Metabolic Disorders via Regulating Gut Microbiota \(/journal/foods/special\\_issues/dietary\\_polysaccharides\\_metabolic\\_disorders\)](#)**

**Dr. Javier Garau**

Department of Medicine, Hospital Universitari Mutua de Terrassa, Terrassa, Spain

**Interests:** antibiotic resistance; community-acquired bacterial infections; new antimicrobials

**Prof. Dr. Kevin W. Garey**

**Website** (<https://www.uh.edu/pharmacy/directory-home/pptr-faculty/kevin-garey/>)

Department of Pharmacy Practice and Translational Research, University of Houston College of Pharmacy, Houston, TX, USA

**Interests:** clostridioides difficile; microbiome; antimicrobial stewardship

**Dr. Andrei L. Gartel**

**Website** (<https://cancer.uillinois.edu/members/andrei-gartel/>)

Department of Medicine, University of Illinois at Chicago, Chicago, IL, USA

**Interests:** thiazole antibiotics as anticancer drugs; antibiotics against cancer; antibiotics as proteasome inhibitors; antibiotic mechanisms of action in mammalian cells

**Dr. Luigi Gatta**

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**Website** (<https://www.webaigo.it/chi-siamo/organi-direttivi/comitato-scientifico/>)

Gastroenterology Unit, Versilia Hospital, Lido di Camaiore, Lucca, Italy

**Interests:** Helicobacter pylori infection; Dyspepsia; Gastroesophageal reflux disease; Small intestinal bacterial overgrowth (SIBO); Diverticular disease; Systematic review and meta-analysis; Evidence based medicine

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**Dr. Olga Genilloud**

**Website** (<http://iimena.org/principleinvestigators/olga-genilloud-fundacion-medina/>)

**SciProfiles** (<https://sciprofiles.com/profile/39431>)

Fundación MEDINA, Centro de Excelencia en Investigación de Medicamentos Innovadores en Andalucía, Parque Tecnológico Ciencias de la Salud, Avenida del Conocimiento 34, Granada, Spain

**Interests:** natural products; drug discovery; antibiotics; antimicrobial resistance; natural product biosynthesis

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*Marine Drugs: Products from Marine Actinomycetes\*](#) ([/journal/marinedrugs/special\\_issues/Actinomycete](/journal/marinedrugs/special_issues/Actinomycete))

Special Issue in [\*Antibiotics: Antibiotics Acting on Cell Wall\*](#) ([/journal/antibiotics/special\\_issues/antibiotics\\_cell\\_wall](/journal/antibiotics/special_issues/antibiotics_cell_wall))

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**Dr. Daniele Roberto Giacobbe**

**Website** (<https://dissal.unige.it/node/558>) **SciProfiles** (<https://sciprofiles.com/profile/501137>)

Department of Health Sciences (DISSAL), Università degli Studi di Genova, Genoa, Italy

**Interests:** antimicrobial resistance; carbapenem resistance; antimicrobial stewardship

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*Antibiotics: Stewardship of Antibiotics for Multidrug-Resistant Gram-Negative Bacteria\*](#) ([/journal/antibiotics/special\\_issues/stewardship\\_antibiotics](/journal/antibiotics/special_issues/stewardship_antibiotics))

Special Issue in [\*Microorganisms: The COVID-19 Pandemic and Bacterial Infections: Microbiological and Clinical Aspects\*](#) ([/journal/microorganisms/special\\_issues/COVID-19\\_Pandemic\\_Bacterial\\_Infections](/journal/microorganisms/special_issues/COVID-19_Pandemic_Bacterial_Infections))

Special Issue in [\*Antibiotics: Infection Control and Antibiotic Use in Hospital\*](#) ([/journal/antibiotics/special\\_issues/infection\\_hospital](/journal/antibiotics/special_issues/infection_hospital))

Special Issue in [\*Journal of Clinical Medicine: Clinical Challenges in Endocarditis\*](#) ([/journal/jcm/special\\_issues/Clinical\\_Endocarditis](/journal/jcm/special_issues/Clinical_Endocarditis))

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**Prof. Dr. Vania Giacomet**

**Website** (<https://www.unimi.it/it/ugov/person/vania-giacomet>)

Department of Biomedical and Clinical Sciences, L. Sacco, University of Milan, Milan, Italy

**Interests:** HIV; tuberculosis; Torches; parassitosis in children

---

**Prof. Dr. Anna Giammanco**

**Website** (<https://pure.unipa.it/it/persons/anna-giammanco-4>)

Department of Health Promotion, Mother and Child Care, Internal Medicine and Medical Specialities, University of Palermo, 90127 Palermo, Italy

**Interests:** MDR; rapid method of diagnosis; *H. pylori*; *L. pneumophila*

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*International Journal of Environmental Research and Public Health: Sexually Transmitted Diseases: Diagnosis and Control\*](#) ([/journal/ijerph/special\\_issues/STDDC](/journal/ijerph/special_issues/STDDC))

Special Issue in [\*Antibiotics: Diagnosis, Resistance and Treatment of Infections by Candida auris\*](#) ([/journal/antibiotics/special\\_issues/Candida\\_auris\\_](/journal/antibiotics/special_issues/Candida_auris_))

Special Issue in [\*International Journal of Environmental Research and Public Health: Molecular Mechanisms of Helicobacter pylori Pathogenesis and Host Factors\*](#) ([/journal/ijerph/special\\_issues/helicobacter\\_pylori\\_host\\_factors](/journal/ijerph/special_issues/helicobacter_pylori_host_factors))

Special Issue in [\*Microorganisms: Legionella pneumophila: A Microorganism With a Thousand Faces\*](#) ([/journal/microorganisms/special\\_issues/Legionella\\_pneumophila](/journal/microorganisms/special_issues/Legionella_pneumophila))

Special Issue in [\*Antibiotics: Antimicrobial Agents that Interfere with Bacterial and Fungal Biofilms\*](#) ([/journal/antibiotics/special\\_issues/Interfere\\_with\\_Bacterial\\_and\\_Fungal\\_Biofilms](/journal/antibiotics/special_issues/Interfere_with_Bacterial_and_Fungal_Biofilms))

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**Prof. Dr. Jose A. Gil**

**Website** (<https://scholar.google.es/citations?user=UT6kXqcAAAAJ&hl=es>)

**SciProfiles** (<https://sciprofiles.com/profile/965480>)

Department of Molecular Biology (Microbiology), University of Leon, 24071 León, Spain

**Interests:** antibiotic biosynthesis; new antibiotics; repositioning of antibiotics; cell division; oxidative stress

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Dr. **Giorgia Gioacchini**

**Website** ([https://www.univpm.it/Entra/Scienze\\_1/docname/idsel/730/docname/GIORGIA%20GIOACCHINI](https://www.univpm.it/Entra/Scienze_1/docname/idsel/730/docname/GIORGIA%20GIOACCHINI))

**SciProfiles** (<https://sciprofiles.com/profile/1532610>)

Dipartimento Scienze della Vita e dell'Ambiente, Università Politecnica delle Marche, Via Bressa Bonichi, Ancona, Italy

**Interests:** fish reproduction; oogenesis; spermatogenesis; aquaculture; fisheries; microplastic

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Animals: Endocrine Disruptors Cause Metabolic and Reproductive Disorders: Effects on Laboratory, Cultured, and Wild Species*** ([/journal/animals/special\\_issues/Endocrine\\_Animals](/journal/animals/special_issues/Endocrine_Animals))

Prof. Dr. **Christian Girard**

**Website** ([http://www.chimie-paristech.fr/fr/la\\_recherche/UTCBS/](http://www.chimie-paristech.fr/fr/la_recherche/UTCBS/))

Unité de Technologies Chimiques & Biologiques pour la Santé, Equipe SEISAD - Synthèse Electrochimie, Imagerie et Systèmes Analytiques pour le Diagnostique, UMR 8258 CNRS / U 1022 INSERM, Ecole Nationale Supérieure de Chimie de Paris 11, rue P. & M. Curie, 75231 Paris CEDEX 05, France

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Molecules: Click Chemistry*** ([/journal/molecules/special\\_issues/click-chemistry](/journal/molecules/special_issues/click-chemistry))

Dr. **Massimo Girardis**

**Website** (<http://www.unimore.it>) **SciProfiles** (<https://sciprofiles.com/profile/1624674>)

Intensive Care Unit, Department of Anaesthesiology and Intensive Care, University Hospital of Modena, Modena, Italy

**Interests:** sepsis; immunity; multidrug resistant microorganisms; intensive care; shock

Dr. **Philippe Glaser**

**Website** (<https://research.pasteur.fr/en/member/philippe-glaser/>)

Department of Microbiology, Institut Pasteur, Paris, France

**Interests:** evolution; ecology; carbapenem resistance; genomics; recombination



Dr. **Alan Goddard**

**Website** (<https://research.aston.ac.uk/en/persons/alan-goddard>)

School of Life and Health Sciences, Aston University, Birmingham B4 7ET, UK

**Interests:** cell membranes; yeast; membrane proteins; biotechnology



Prof. Dr. **George W. Gokel**

**Website** (<https://www.umsl.edu/chemistry/Faculty/gokel.html>)

Departments of Chemistry and Biochemistry and Biology, University of Missouri-St. Louis, Saint Louis, MI, USA

**Interests:** adjuvants; antimicrobials; crown ether; host-guest chemistry; hydraphiles; ion channels; lariat ethers; molecular switching; supramolecular chemistry; synthetic membranes

Prof. Dr. **Ivo Gomperts-Boneca**

**Website** (<https://research.pasteur.fr/en/team/biology-and-genetics-of-bacterial-cell-wall/>)

**SciProfiles** (<https://sciprofiles.com/profile/230127>)

Department of Microbiology, Institut Pasteur, Paris, France

**Interests:** peptidoglycan; cell envelope; beta-lactam; penicillin-binding protein; resistance; peptidoglycan binding protein; lysozyme; PG hydrolase; innate immunity; Nod-like receptors; Toll-like receptors

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: The Role of the Cell Wall in Host-Microbe Interactions*** ([/journal/antibiotics/special\\_issues/Cell\\_Wall\\_Host-Microbe\\_Interactions](/journal/antibiotics/special_issues/Cell_Wall_Host-Microbe_Interactions))

Prof. Dr. **Andrzej J. Gorski**

**Website** (<http://wbib.uwm.edu.pl/keios/pracownicy/dr-andrzej-gorski>)

Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw, Poland

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**Interests:** immunity; bacteriophages; phage therapy



**Dr. Santiago Grau**

**Website** ([https://www.uab.cat/web/postgraduate/master-in-surveillance-and-control-of-antimicrobial-therapy-in-hospitals/general-information-1217916968009.html/param1-1860\\_16\\_en/](https://www.uab.cat/web/postgraduate/master-in-surveillance-and-control-of-antimicrobial-therapy-in-hospitals/general-information-1217916968009.html/param1-1860_16_en/))

The Infectious Pathology and Antimicrobial Therapy Research Group, Institut Hospital del Mar d'Investigacions Mèdiques, University Autònoma de Barcelona, Barcelona, Spain

**Interests:** new antibiotics; antimicrobial stewardship and Pk/Pd

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: Antibiotic Use and Stewardship in Hospital\*\*\*](#) ([/journal/antibiotics/special\\_issues/Antibiotic\\_Hospital](/journal/antibiotics/special_issues/Antibiotic_Hospital))



**Dr. Juraj Gregaň**

**Website** (<https://www.viennabiocenter.org/projects-grants/cohesin/>)

1. VBCF and MFPL, Vienna Biocenter, 1030 Vienna, Austria
2. Department of Genetics, Comenius University, 814 99 Bratislava, Slovakia

**Interests:** antifungal drugs-mechanism of action; yeast and its metabolites; biochemical and genetic studies of yeast

**Dr. Steven T. Gregory**

**Website** (<https://web.uri.edu/cmb/steven-t-gregory/>)

Department of Cell and Molecular Biology, The University of Rhode Island, Kingston, RI, USA

**Interests:** ribosome structure and function; mechanisms of antibiotic resistance; molecular genetics of thermophilic bacteria

**Prof. Dr. Paolo Grieco**

**Website** (<https://www.docenti.unina.it/#!/professor/50414f4c4f47524945434f475243504c413634433331423939304c/riferimenti>)

School of Medicine and Surgery, Department of Pharmacy, Università degli Studi di Napoli Federico II, Naples, Italy

**Interests:** melanocortin peptides; peptide and peptidomimetic active at urotensin-II receptor; antimicrobial peptides; antiviral peptides

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Molecules: A Themed Issue Dedicated to Professor Victor Hruby\*\*\*](#) ([/journal/molecules/special\\_issues/Victor\\_Hruby](/journal/molecules/special_issues/Victor_Hruby))

**Dr. Julia E. Grimwade**

**Website** (<http://www.fit.edu/faculty-profiles/3/julia-grimwade/>) **SciProfiles** (<https://sciprofiles.com/profile/139325>)

Biomedical and Chemical Engineering and Sciences, Laboratory of Microbial Genetics, Florida Institute of Technology, Melbourne, FL, USA

**Interests:** bacterial chromosome replication origins; regulation of initiation of bacterial chromosome replication; bacterial cell cycle regulation; protein-DNA interactions; initiator proteins; identification of novel antibiotic targets

**Prof. Dr. Didier Guillemot**

**Website** (<https://research.pasteur.fr/en/team/epidemiology-and-modelling-of-bacterial-escape-to-antimicrobials/>)

1. Department of Epidemiology, Université Paris-Saclay, UVSQ, Inserm, CESP, F-78180 Montigny-Le-Bretonneux, France
2. Unit Epidemiology and Modeling of Antibacterial Evasion, Institut Pasteur, F-75015 Paris, France

**Interests:** antibacterial evasion; antibacterial innovation; transmission; epidemiology



**Prof. Dr. Sotiris K Hadjikakou**

**Website** ([http://users.uoi.gr/shadjika/Hadjikakou\\_1/Hadjikakou\\_01.htm](http://users.uoi.gr/shadjika/Hadjikakou_1/Hadjikakou_01.htm))

**SciProfiles** (<https://sciprofiles.com/profile/8702>)

Section of Inorganic and Analytical Chemistry, Department of Chemistry, University of Ioannina, 451 10 Ioannina, Greece

**Interests:** crystal structure; structure determination; material characterization; structural chemistry; biological inorganic chemistry, [Back to top](#)

antimicrobial compounds; antiproliferative compounds

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [International Journal of Molecular Sciences: Recent Advances in Metal Based Drugs \(/journal/ijms/special\\_issues/metal-based-drug\)](#) (/toggle\_desktop\_layout\_cookie)

Special Issue in [International Journal of Molecular Sciences: A Commemorative Issue in Honor of Professor Nick Hadjilidis: Metal Complex Interactions with Nucleic Acids and/or DNA \(/journal/ijms/special\\_issues/metal\\_nucleic\\_acids\)](#)

Special Issue in [Molecules: Antimicrobial Materials with Medical Applications \(/journal/molecules/special\\_issues/antimicrobial\\_materials\)](#)

Special Issue in [International Journal of Molecular Sciences: Antimicrobial Materials with Medical Applications \(/journal/ijms/special\\_issues/materials\\_medical\\_applications\)](#)

Special Issue in [Antibiotics: Silver and Gold Compounds as Antibiotics \(/journal/antibiotics/special\\_issues/silver\\_antibiotics\)](#)

**Dr. Kyung-soo Hahm**

[Website \(https://gender-summit.com/g6-regional-committee/g6-regional-committee-profiles/1181-hahm\)](https://gender-summit.com/g6-regional-committee/g6-regional-committee-profiles/1181-hahm)

Apt.C-907 (Misung apt), 110 Uisadang-daero, Yeongdeungpo-Gu, Seoul, Korea

**Interests:** protein engineering; peptide engineering; antimicrobial peptides

**Dr. Hiroshi Hamamoto**

[Website \(https://www.e-campus.gr.jp/staffinfo/public/staff/detail/3009/64\)](https://www.e-campus.gr.jp/staffinfo/public/staff/detail/3009/64)

Institute of Medical Mycology, Teikyo University, Hachioji, Tokyo, Japan

**Interests:** novel antibiotics; AMR; Staphylococcus aureus; silkworm model

**Prof. Dr. Leendert Hamoen**

[Website \(https://www.uva.nl/profiel/h/a/l.w.hamoen/l.w.hamoen.html?cb\)](https://www.uva.nl/profiel/h/a/l.w.hamoen/l.w.hamoen.html?cb)

Swammerdam Institute for Life Sciences, University of Amsterdam, Amsterdam, The Netherlands

**Interests:** antibiotic mode of action; Bacillus subtilis; FtsZ; bacterial cell division

**Prof. Dr. Axel Hamprecht**

[Website \(https://uol.de/universitaetsinstitut-fuer-mikrobiologie-und-virologie\)](https://uol.de/universitaetsinstitut-fuer-mikrobiologie-und-virologie)

Institute for Medical Microbiology and Virology, Oldenburg University, Oldenburg, Germany

**Interests:** antibiotic resistance; Carbapenemases; mycology; antifungal resistance

**Prof. Dr. Paul Robert Hansen**

[Website \(https://forskning.ku.dk/soeg/result/?pure=da%2Fpersons%2Fpaul-robert-hansen\(d27da2e2-4ff0-49e8-b7d8-6deaa970cf26\).html\)](https://forskning.ku.dk/soeg/result/?pure=da%2Fpersons%2Fpaul-robert-hansen(d27da2e2-4ff0-49e8-b7d8-6deaa970cf26).html)

Department of Drug Design and Pharmacology, University of Copenhagen, Universitetsparken 2, 2100 Copenhagen, Denmark

**Interests:** antimicrobial peptides; drug delivery

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [International Journal of Molecular Sciences: Structure–Activity Studies of Antibacterials and Potentiators of Antibiotics \(/journal/ijms/special\\_issues/antibacterials\)](#)

Special Issue in [Molecules: Novel Antibacterials: Antimicrobial Peptides, Peptidomimetics and Conjugates \(/journal/molecules/special\\_issues/peptides\\_peptidomimetics\)](#)

Special Issue in [Antibiotics: Peptide-Based Antibiotics: Challenges and Opportunities \(/journal/antibiotics/special\\_issues/Peptide\\_Antibiotics\)](#)

**Dr. Karl Hassan**

[Website \(https://www.newcastle.edu.au/profile/karl-hassan\)](https://www.newcastle.edu.au/profile/karl-hassan)

School of Environmental and Life Sciences, The University of Newcastle (UON), Callaghan, NSW 2308, Australia

**Interests:** multidrug efflux; antibiotic permeability; functional genomics; antimicrobial resistance mechanisms



**Prof. Dr. Alastair Hay**

[Website \(https://research-information.bris.ac.uk/en/persons/alastair-d-hay\)](https://research-information.bris.ac.uk/en/persons/alastair-d-hay)

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Centre for Academic Primary Care, School of Social and Community Medicine, University of Bristol, Bristol, UK

**Interests:** antimicrobial resistance; antibiotics infection; primary care

**Dr. Finbarr Hayes**

**Website** (<https://www.research.manchester.ac.uk/portal/finbarr.hayes.html>)

Faculty of Biology, Medicine and Health, The University of Manchester, Manchester M13 9PL, UK

**Interests:** Escherichia coli; mobile genetic elements; plasmids; plasmid maintenance; plasmid segregation; multidrug resistance; toxins-antitoxins; novel antibiotic targets

**Dr. Zvi Hayouka**

**Website** (<https://biochem-food-nutrition.agri.huji.ac.il/zvihadouka>) **SciProfiles** (<https://sciprofiles.com/profile/1186697>)

Department of Biochemistry, Food Science and Nutrition, Hebrew University of Jerusalem, Jerusalem, Israel

**Interests:** antimicrobial peptide; anti biofilm agents; quorum sensing; Quorum quenching; chemical biology; microbiology; protein protein interaction; crop protection agents; food preservative; bioactive packaging

**Prof. Dr. Qiushui He**

**Website** (<https://www.utu.fi/en/people/qiushui-he>) **SciProfiles** (<https://sciprofiles.com/profile/1670169>)

Institute of Biomedicine, Research Center for Cancer, Infections and Immunity, University of Turku, 20014 Turku, Finland

**Interests:** pertussis; Bordetella pertussis; respiratory bacteria; molecular typing; resistance mechanisms

**Dr. Yongqun He (Oliver)**

**Website** (<https://medicine.umich.edu/dept/dcmb/yongqun-oliver-he-phd>)

**SciProfiles** (<https://sciprofiles.com/profile/232233>)

1. Department of Computational Medicine and Bioinformatics, University of Michigan Medical School, Ann Arbor, MI 48109, USA

2. Unit for Laboratory Animal Medicine, University of Michigan Medical School, Ann Arbor, MI 48109, USA

3. Department of Microbiology and Immunology, University of Michigan Medical School, Ann Arbor, MI 48109, USA

**Interests:** vaccine antigen; biomedical ontologies and their applications in literature mining; Bayesian network modeling; microbial genomics; vaccine informatics; microbial pathogenesis and host-pathogen interaction

**Prof. Dr. Peter Heisig**

**Website** (<http://www.hsfs.org/de/competence-for-food/heisig-vita.php>)

**SciProfiles** (<https://sciprofiles.com/profile/75601>)

Pharmaceutical Biology and Microbiology, Institute of Biochemistry and Molecular Biology, University of Hamburg, Hamburg, Germany

**Interests:** antibiotic resistance; antibiotics microbiology; molecular biology; gene expression; molecular cloning; bacterial transformation

**Prof. Dr. Thomas Hermann**

**Website** ([https://www-chem.ucsd.edu/faculty/profiles/hermann\\_thomas\\_c.html](https://www-chem.ucsd.edu/faculty/profiles/hermann_thomas_c.html))

**SciProfiles** (<https://sciprofiles.com/profile/901417>)

Department of Chemistry and Biochemistry, University of California, San Diego, 9500 Gilman Drive, MC 0358, La Jolla, CA 92093-0358, USA

**Interests:** translation and ribosome as antibiotic targets; RNA targets; new classes of antibiotics; antibiotic mechanism of action; mechanisms of antibiotic resistance; medicinal chemistry; X-ray crystallography

**Prof. Dr. Marta Hernández**

**Website** (<https://dialnet.unirioja.es/servlet/autor?codigo=336890>) **SciProfiles** (<https://sciprofiles.com/profile/1062522>)

Division of Microbiology, Department of Biotechnology and Food Science, Universidad de Burgos, 09001 Burgos, Spain

**Interests:** WGS; metagenomics; infectious diseases; One Health; Clostridioides; antibiotic resistance



**Prof. Dr. Marc Heyndrickx**

**Website** (<https://biblio.ugent.be/person/801000565687>)

Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Technology and Food Science Unit, Brusselsesteenweg 370, B-9090 Melle, Belgium

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**Interests:** bacterial foodborne pathogens; one Health in agriculture; antimicrobial resistance



**Prof. Dr. Paul S. Hoffman**

**Website** (<https://med.virginia.edu/faculty/faculty-listing/psh2n/>)

School of Medicine, University of Virginia, Charlottesville, VA, USA

**Interests:** molecular mechanisms of microbial pathogenesis; antibiotic development



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**Dr. Mark A Holmes**

**Website** (<https://www.infectiousdisease.cam.ac.uk/directory/mah1@cam.ac.uk>)

Reader in Microbial Genomics & Veterinary Science, Department of Veterinary Medicine, University of Cambridge, Madingley Road, Cambridge CB3 0ES, UK

**Interests:** molecular epidemiology; evolution; sequencing; immunology; dairy cows; gene expression; phylogenetics; vaccine development; infection; epidemiology; veterinary science; bioinformatics; bacteriology; immunopathogenesis; antibody; gene regulation

**Dr. Juan P. Horcajada**

**Website** (<https://orcid.org/0000-0001-9873-5459>) **SciProfiles** (<https://sciprofiles.com/profile/1543533>)

Department of Infectious Diseases, Hospital del Mar. Infectious Pathology and Antimicrobials Research Group (IPAR), Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain

**Interests:** antimicrobial resistance; new antimicrobials; Carbapenem-resistant gram negative bacilli; Pseudomonas aeruginosa; antimicrobial stewardship; PK/PD

**Dr. Po-Ren Hsueh**

**Website** ([https://www.ntuh.gov.tw/labmed/Vcard.action?q\\_type=A03&q\\_itemCode=212](https://www.ntuh.gov.tw/labmed/Vcard.action?q_type=A03&q_itemCode=212))

**SciProfiles** (<https://sciprofiles.com/profile/1607748>)

Departments of Laboratory Medicine and Internal Medicine, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei 100, Taiwan

**Interests:** clinical infection; clinical microbiology; antimicrobial resistance; emerging infection; nontuberculous mycobacteria

**Dr. Lingli Huang**

**Website** (<https://my.hzau.edu.cn/info/1166/3219.htm>) **SciProfiles** (<https://sciprofiles.com/profile/707270>)

National Reference Laboratory of Veterinary Drug Residues (HZAU), Key Laboratory for Detection of Veterinary Drug Residues, Huazhong Agricultural University, Wuhan 430070, China

**Interests:** pharmacokinetics and pharmacodynamics of veterinary antimicrobials; physiologically based pharmacokinetic (PBPK) modeling; disposition; metabolism; absorption and distribution; antimicrobial resistance

**Prof. Dr. Frank T. Hufert**

**Website** (<http://www.mhb-fontane.de>)

1. Institute of Microbiology and Virology Brandenburg Medical School Fontane, 16816 Neuruppin, Germany

2. The Faculty of Environment & Natural Sciences of B-TU, Senftenberg, Germany

3. The Health Campus Faculty of the Brandenburg State Senftenberg site, B-TU Campus, Building 15 Universitaetsplatz 1 D-01968 Senftenberg, Germany

**Interests:** emerging viruses (EV); arboviruses; viral genetics of EV; rapid molecular diagnostic; lab-on-chip development; mobile diagnostic in the field; Virus host interactions; viral anti-interferone response and interaction of viruses with DCs

**Prof. Dr. Francesco Imperi**

**SciProfiles** (<https://sciprofiles.com/profile/846257>)

Department of Science, Roma Tre University, Roma, Italy

**Interests:** Pseudomonas aeruginosa; Acinetobacter baumannii; Gram-negative bacteria; polymyxins; antimetabolites; antivirulence drugs; outer membrane biogenesis; essential genes; iron uptake; lipopolysaccharide

**Prof. Dr. Hanne Ingmer**

**Website** ([https://ivh.ku.dk/english/research/food\\_safety\\_and\\_zoonoses/microbialfoodsafety/hanne-ingmer-lab/?pure=en/persons/83525](https://ivh.ku.dk/english/research/food_safety_and_zoonoses/microbialfoodsafety/hanne-ingmer-lab/?pure=en/persons/83525)) **SciProfiles** (<https://sciprofiles.com/profile/86987>)

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Department of Veterinary and Animal Sciences, University of Copenhagen, Copenhagen, Denmark

**Interests:** quorum sensing; antimicrobial resistance; Staphylococcus aureus; bacteriophage; phage; transduction; anti-virulence

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Solutions to Antimicrobial Resistance*** ([/journal/antibiotics/special\\_issues/antibiotics](#))

**Prof. Dr. José Antonio Iribarren**

**Website** ([https://www.biodonostia.org/en/areas\\_investigacion/infectious-diseases/aids-and-hiv-infections/](https://www.biodonostia.org/en/areas_investigacion/infectious-diseases/aids-and-hiv-infections/))

**SciProfiles** (<https://sciprofiles.com/profile/1531635>)

Servicio de Enfermedades Infecciosas, Hospital Universitario Donostia/OSI Donostialdea, Instituto BioDonostia, Donostia, Spain

**Interests:** AIDS and HIV infections; antiretroviral treatment; HIV/HVC co-infection; infective endocarditis; prosthetic joint infection; Clostridium difficile; cellulitis; organ infections



**Prof. Dr. Marcello Iriti**

**Website** (<http://www.unimi.it/chiedove/schedaPersonaXML.jsp?matricola=16744>)

**SciProfiles** (<https://sciprofiles.com/profile/46909>)

Department of Agricultural and Environmental Sciences, Milan State University, Milan, Italy

**Interests:** environmental pollution; agrochemicals; mycotoxins; biomonitoring

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***International Journal of Molecular Sciences: Molecular Research in Plant Secondary Metabolism*** ([/journal/ijms/special\\_issues/secondray-metabolism](#))

Topical Collection in ***Molecules: Phytochemicals: Biosynthesis, Metabolism and Biological Activities*** ([/journal/molecules/special\\_issues/phytochemicals\\_biosynthesis\\_metabolism](#))

Special Issue in ***International Journal of Molecular Sciences: Plant Molecular Biology*** ([/journal/ijms/special\\_issues/plant-molecular-biology](#))

Special Issue in ***International Journal of Molecular Sciences: Molecular Research in Plant Secondary Metabolism 2015*** ([/journal/ijms/special\\_issues/secondray-metabolism-2015](#))

Special Issue in ***International Journal of Molecular Sciences: Nutrigenetics and Nutrigenomics*** ([/journal/ijms/special\\_issues/nutrigenet-nutrigenom](#))

Special Issue in ***International Journal of Molecular Sciences: Plant Innate Immunity*** ([/journal/ijms/special\\_issues/plant-innate-immunity](#))

Special Issue in ***International Journal of Molecular Sciences: Molecular Research on Global Climate Change and Atmospheric Pollution*** ([/journal/ijms/special\\_issues/climate-atmospheric](#))

Special Issue in ***International Journal of Molecular Sciences: Pulses*** ([/journal/ijms/special\\_issues/pulses](#))

Special Issue in ***Foods: Dietary Melatonin, a New Element in Food Science*** ([/journal/foods/special\\_issues/dietary\\_melatonin](#))

Special Issue in ***International Journal of Environmental Research and Public Health: Agrochemicals in the Agri-Food Chain*** ([/journal/ijerph/special\\_issues/agrochemicals](#))

Special Issue in ***International Journal of Environmental Research and Public Health: Mycotoxins in the Agri-Food Chain*** ([/journal/ijerph/special\\_issues/mycotoxins](#))

Special Issue in ***International Journal of Molecular Sciences: Metabolomics in the Plant Sciences 2017*** ([/journal/ijms/special\\_issues/metabolomics](#))

Special Issue in ***International Journal of Molecular Sciences: Plant Innate Immunity 2.0*** ([/journal/ijms/special\\_issues/plant\\_innate\\_immunity\\_2](#))

Special Issue in ***International Journal of Molecular Sciences: Pulses 2.0*** ([/journal/ijms/special\\_issues/pulses\\_2](#))

Special Issue in ***Foods: Health-Promoting Effects of Traditional Foods*** ([/journal/foods/special\\_issues/health\\_effects\\_traditional\\_foods](#))

Special Issue in ***Medicines: Biological Efficacy of Natural Products against Noncommunicable Diseases*** ([/journal/medicines/special\\_issues/natural\\_products\\_noncommunicable\\_diseases](#))

Special Issue in ***International Journal of Environmental Research and Public Health: Air Pollution, Climate Change, and Public Health: The Unavoidable Path towards Decarbonization*** ([/journal/ijerph/special\\_issues/Air\\_Pollution\\_Climate\\_Change\\_Public\\_Health](#))

Special Issue in ***Applied Sciences: (Nano)bioagrochemicals*** ([/journal/applsci/special\\_issues/Nano\\_bioagrochemicals](#))

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- Special Issue in [\*\*\*International Journal of Molecular Sciences: Plant Innate Immunity 3.0\*\*\*](#) (/journal/ijms/special\_issues/plant\_innate\_immunity\_3)
- Special Issue in [\*\*\*International Journal of Environmental Research and Public Health: Water and Health\*\*\*](#) (/journal/ijerph/special\_issues/health\_water) (/toggle\_desktop\_layout\_cookie)
- Special Issue in [\*\*\*Antibiotics: Antimicrobial Plant Extracts and Phytochemicals\*\*\*](#) (/journal/antibiotics/special\_issues/Antimicrobial\_Extracts)
- Special Issue in [\*\*\*Journal of Clinical Medicine: Bioactive Phytochemicals in Health and Disease\*\*\*](#) (/journal/jcm/special\_issues/Bioactive\_Phytochemicals\_heath\_disease)
- Special Issue in [\*\*\*Vaccines: Immunomodulatory Plants & Plant-Derived Immunomodulators\*\*\*](#) (/journal/vaccines/special\_issues/Pant\_immunomodulators)
- Special Issue in [\*\*\*Vaccines: Immune Mechanisms in Plants\*\*\*](#) (/journal/vaccines/special\_issues/Immune\_Plants)
- Special Issue in [\*\*\*International Journal of Molecular Sciences: Plant Health and Food Security\*\*\*](#) (/journal/ijms/special\_issues/plant\_health)
- Special Issue in [\*\*\*Applied Sciences: Natural Products in Crop Protection, Post-harvest Disease Control and Food Contamination\*\*\*](#) (/journal/applsci/special\_issues/Natural\_Products\_Crop\_Post-harvest\_Food)
- Special Issue in [\*\*\*International Journal of Molecular Sciences: Plant Innate Immunity 4.0\*\*\*](#) (/journal/ijms/special\_issues/plant\_innate\_immunity\_4)
- Special Issue in [\*\*\*Molecules: Biomolecules from Essential Oil Bearing Plants: Biological and Industrial Applications\*\*\*](#) (/journal/molecules/special\_issues/biomolecules\_essential\_oil)
- Special Issue in [\*\*\*Journal of Clinical Medicine: Clinical Studies on Bioavailability, Biotransformation, Biokinetics and Bioeffects of Phytochemicals\*\*\*](#) (/journal/jcm/special\_issues/JCM\_BBBBP)
- Special Issue in [\*\*\*International Journal of Molecular Sciences: Flavonoids\*\*\*](#) (/journal/ijms/special\_issues/Flavo)
- Special Issue in [\*\*\*Vaccines: Immune Mechanisms in Plants 2.0\*\*\*](#) (/journal/vaccines/special\_issues/plants\_vaccines)
- Special Issue in [\*\*\*Antibiotics: Antimicrobial Plant Extracts and Phytochemicals, 2nd Volume\*\*\*](#) (/journal/antibiotics/special\_issues/anti\_plant\_2nd)
- Special Issue in [\*\*\*International Journal of Molecular Sciences: Bioactive Phytochemicals: Biosynthesis and Functional Role In Planta, and Health-Promoting Effects in Animals and Humans\*\*\*](#) (/journal/ijms/special\_issues/Bioactive\_Phytochemicals\_TC)
- Special Issue in [\*\*\*Stresses: Environmental Pollution & Climate Change: Responses of Plant Organisms to Harsh Environments\*\*\*](#) (/journal/stresses/special\_issues/Environmental\_Climate)
- Special Issue in [\*\*\*Foods: Health-Promoting Effects of Traditional Foods \(II\)\*\*\*](#) (/journal/foods/special\_issues/health\_effects\_traditional\_foods\_II)
- Special Issue in [\*\*\*International Journal of Molecular Sciences: Climate Change and Plant Organisms: From Molecules to Ecosystems\*\*\*](#) (/journal/ijms/special\_issues/Climate\_Plant)
- Topical Collection in [\*\*\*International Journal of Molecular Sciences: One Health Model: A Multisectoral Approach for Protecting Human Health and the Environment\*\*\*](#) (/journal/ijms/special\_issues/One\_Healthijms)
- Special Issue in [\*\*\*International Journal of Environmental Research and Public Health: Water, Health, and Environment\*\*\*](#) (/journal/ijerph/special\_issues/water\_health\_environment)
- Topics: [\*\*\*Frontiers in Phytochemicals\*\*\*](#) (/topics/Phytochemicals)

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**Prof. Dr. Takeshi Isobe**

[Website \(https://upload.umin.ac.jp/cgi-open-bin/ctr\\_e/ctr\\_view.cgi?recptno=R000024403\)](https://upload.umin.ac.jp/cgi-open-bin/ctr_e/ctr_view.cgi?recptno=R000024403)

Department of Internal Medicine, Division of Medical Oncology & Respiratory Medicine, Shimane University Faculty of Medicine, 89-1 Enya-cho, Izumo, Shimane 693-8501, Japan

**Interests:** pharmacokinetics; drug resistance; rechallenge; nonsmall cell lung cancer; tumor angiogenesis

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**Prof. Dr. Katy Jeannot**

[Website \(https://www.cnr-resistance-antibiotiques.fr/\)](https://www.cnr-resistance-antibiotiques.fr/)

Department of Bacteriology, University Hospital of Besançon, Besançon, France

**Interests:** antibiotic resistance mechanisms; *Pseudomonas aeruginosa*; *Acinetobacter baumannii*; cystic fibrosis

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: The Genetic Differences among Colistin-Resistant Enterobacterales, Acinetobacter spp. and Pseudomonas aeruginosa\*\*\*](#) (/journal/antibiotics/special\_issues/Gene\_Resistance)

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**Prof. Dr. Peter Østrup Jensen**

[Website \(https://biofilm.ku.dk/staff/?pure=en%2Fpersons%2Fpeter-ostrup-jensen\(1fbe2f03-e946-4aca-](https://biofilm.ku.dk/staff/?pure=en%2Fpersons%2Fpeter-ostrup-jensen(1fbe2f03-e946-4aca-) Back to TopTop

[8a2a-8accdc2207de\)%2Fpublications.html](#)

Costeron Biofilm Center, Department of Immunology and Microbiology, University of Copenhagen, Copenhagen, Denmark

**Interests:** sensitivity; microenvironment; host response; biofilm



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**Dr. Seok Hoon Jeong**

**SciProfiles** (<https://sciprofiles.com/profile/948585>)

Department of Laboratory Medicine, Yonsei University College of Medicine, Seoul 03722, Korea

**Interests:** antimicrobial resistance surveillance; mechanism of antimicrobial resistance; rapid diagnosis of antimicrobial resistance

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Rapid Diagnostics of the Antimicrobial Resistance \(/journal/antibiotics/special\\_issues/Rapid\\_Diagnostics\)](#)**



**Prof. Dr. Yinduo Ji**

**Website** (<http://www.cvm.umn.edu/vbs/faculty/Ji/home.html>) **SciProfiles** (<https://sciprofiles.com/profile/30819>)

Department of Veterinary and Biomedical Sciences, College of Veterinary Medicine, University of Minnesota, St. Paul, MN, USA

**Interests:** Staphylococcus aureus; MRSA; two-component regulatory systems; toxins; essential proteins; gene regulation; antibacterial drug discovery; host pathogen interactions

**Special Issues, Collections and Topics in MDPI journals**

Topical Collection in **[Toxins: Staphylococcus aureus Toxins \(/journal/toxins/special\\_issues/staphylococcus\\_aureus\)](#)**

**Prof. Dr. Gerwald Jogl**

**Website** (<https://www.brown.edu/academics/biology/molecular-cell-biochemistry/graduate/people/gerwald-jogl>)

**SciProfiles** (<https://sciprofiles.com/profile/1122836>)

Department of Molecular Biology, Cell Biology and Biochemistry, Brown University, Providence, Rhode Island 02912, USA

**Interests:** ribosome; translation; antibiotic resistance

**Prof. Dr. George H. Jones**

**Website** (<http://www.biology.emory.edu/index.cfm?faculty=31>) **SciProfiles** (<https://sciprofiles.com/profile/228141>)

Department of Biology, Emory University, Atlanta, GA 30322, USA

**Interests:** Streptomyces; antibiotic; actinomycin; RNA decay; tRNA nucleotidyltransferase; polynucleotide phosphorylase; (p)ppGpp

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Mechanism and Regulation of Antibiotic Synthesis in Streptomyces \(/journal/antibiotics/special\\_issues/Antibiotic\\_Synthesis\\_Streptomyces\)](#)**

**Prof. Dr. Vincent Jullien**

Pharmacology – Hospital Practitioner, Sorbonne Paris Nord University Pharmacology Unit, Paris Seine Saint-Denis University Hospital, Bobigny, France

**Interests:** pharmacokinetics and pharmacodynamics of anti-infective drugs; population pharmacokinetics in children; therapeutic drug monitoring

**Prof. Dr. Won-Kyo Jung**

**Website** (<https://www.crcpress.com/authors/i553-won-kyo-jung/bio/>) **SciProfiles** (<https://sciprofiles.com/profile/9606>)

Biomedical Engineering, Marine-Integrated Bionics R&D Center, Fisheries-Integrated Biomedical Materials R&D Center, College of Engineering, Pukyong National University, Busan 608-737, Korea

**Interests:** wound healing; marine natural products; biocompatibility; bioactivities; alginate; anticoagulant activity

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Marine Drugs: Marine Natural Products with Anticoagulant Activity 2022 \(/journal/marinedrugs/special\\_issues/Marine\\_Natural\\_Products\\_Anticoagulant\\_Activity\\_2022\)](#)**

**Prof. Dr. Rainer Kalscheuer**

**Website** (<https://www.pharmazie.hhu.de/en/institute-of-pharmaceutical-biology-and-biotechnology/>)

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Institute of Pharmaceutical Biology and Biotechnology, Heinrich Heine University Düsseldorf, Düsseldorf, Germany

**Interests:** infection; genetics; microbiology; antibiotic; resistance; antimicrobials; proteins; enzymes; biotechnology; tuberculosis; bacteriology



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### Prof. Dr. Mohammad Amjad Kamal

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**SciProfiles** (<https://sciprofiles.com/profile/1014700>)

1. West China School of Nursing / Institutes for Systems Genetics, Frontiers Science Center for Disease-related Molecular Network, West China Hospital, Sichuan University, Chengdu 610041, Sichuan, China

2. King Fahd Medical Research Center, King Abdulaziz University, P. O. Box 80216, Jeddah 21589, Saudi Arabia

3. Novel Global Community Educational Foundation, Enzymoics, NSW, Australia

**Interests:** biochemistry; neuroscience; enzymology; toxicology; metabolomics; nanomedicines; manual lymph drainage and miRNA; leadership in managing staff performance and chaplaincy

#### **Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: How to Optimize the Use of Antibiotics in Human and Animal Health Care? – A Time to Act*** ([/journal/antibiotics/special\\_issues/use\\_human\\_animal](/journal/antibiotics/special_issues/use_human_animal))

Special Issue in ***Antibiotics: Synopsis on Antimicrobials Challenges—from Dentistry to Environmental Visions*** ([/journal/antibiotics/special\\_issues/anti\\_challenges](/journal/antibiotics/special_issues/anti_challenges))

Special Issue in ***Applied Sciences: Clinical Translation of Nanomedicine in Cancer Therapy*** ([/journal/applsci/special\\_issues/clinical\\_translation](/journal/applsci/special_issues/clinical_translation))

Special Issue in ***Applied Sciences: Currents Concepts and Challenges in Oral Health: Implications for the Global Population*** ([/journal/applsci/special\\_issues/oral\\_health\\_global\\_population](/journal/applsci/special_issues/oral_health_global_population))

Special Issue in ***Applied Sciences: Human Health Monitoring Using Emerging Technologies: Towards Proper Usage of Genomics and Epigenetics in Molecular and Bio-Signaling Data*** ([/journal/applsci/special\\_issues/Human\\_Health\\_Monitorin](/journal/applsci/special_issues/Human_Health_Monitorin))

### Dr. Ilias Karaiskos

**Website** (<https://www.hygeia.gr/en/doctor/ilias-karaiskos/>) **SciProfiles** (<https://sciprofiles.com/profile/656709>)

Department of Internal Medicine – Infectious Diseases, Hygeia Hospital, Athens, Greece

**Interests:** antimicrobial resistance; multidrug-resistant Gram-negative bacteria; colistin; fosfomycin; prostatitis

#### **Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Stewardship of Antibiotics for Multidrug-Resistant Gram-Negative Bacteria*** ([/journal/antibiotics/special\\_issues/stewardship\\_antibiotics](/journal/antibiotics/special_issues/stewardship_antibiotics))

### Prof. Dr. Andrey Karlyshev

**Website** (<https://www.kingston.ac.uk/staff/profile/professor-andrey-karlyshev-164/>)

**SciProfiles** (<https://sciprofiles.com/profile/980154>)

Department of Biomolecular Sciences, School of Life Sciences, Pharmacy and Chemistry, Kingston University London, London, UK

**Interests:** antimicrobial resistance; novel antibacterial drugs; bacterial functional genomics; host-pathogen interaction and virulence factors; bacterial cell surface structures and adhesion; gene regulation and stress response; probiotics

### Prof. Dr. Adrian Kasaj

**Website** (<https://www.unimedizin-mainz.de/parodontologie/das-team/oberaerzte/prof-dr-med-dent-adrian-kasaj.html>)

Department of Periodontology and Operative Dentistry, University Medical Center Mainz, Augustusplatz 2, Mainz, Germany

**Interests:** soft tissue substitutes in periodontal plastic surgery; adjunctive antimicrobial therapies; biomaterials in regenerative periodontal therapy

### Prof. Dr. Masami Kawase

**Website** (<https://syl.matsuyama-u.ac.jp/mtuhp/KgApp?kyoinId=ymlkogbykggy&Language=2>)

**SciProfiles** (<https://sciprofiles.com/profile/1246928>)

Faculty of Pharmaceutical Sciences, Matsuyama University, 4-2 Bunkyo-cho, Matsuyama, Ehime 790-8578, Japan

**Interests:** design, preparation and biological evaluation of library of antibacterial compounds; structure-activity relationship;

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antimicrobial resistance; helicobacter pylori; urease inhibitor



**Prof. Dr. Corinna Kehrenberg**

**Website** ([https://www.uni-giessen.de/fbz/fb10/institute\\_klinikum/institute/nahrungsmittelkunde/institut](https://www.uni-giessen.de/fbz/fb10/institute_klinikum/institute/nahrungsmittelkunde/institut)) (https://www.uni-giessen.de/fbz/fb10/institute\_klinikum/institute/nahrungsmittelkunde/institut) cookie

**SciProfiles** (<https://sciprofiles.com/profile/829157>)

Institute for Veterinary Food Science , Justus Liebig University Giessen, Giessen, Germany

**Interests:** antibiotic resistance; resistance mechanisms; molecular biology; plasmids; functionality of resistance genes; transformation experiments; epidemiology; biocide tolerance; bacterial foodborne pathogens

**Dr. Steven W. Kerrigan**

**Website** (<https://www.rcsi.com/people/profile/skerrigan>) **SciProfiles** (<https://sciprofiles.com/profile/138820>)

Department of Anaesthesia and Critical Care, Royal College of Surgeons in Ireland, Dublin, Ireland

**Interests:** infectious diseases; infective endocarditis; sepsis; osteomyelitis; molecular mechanisms between invading pathogens and host cells; infection and inflammation; drug development; biomaterials and regenerative medicine

**Dr. Madan K. Kharel**

**Website** (<https://www.umes.edu/Pharmacy/Content/Faculty-and-Staff-Bios/Madan-Kharel/>)

**SciProfiles** (<https://sciprofiles.com/profile/95630>)

School of Pharmacy, University of Maryland Eastern Shore, Princess Anne, MD 21853, USA

**Interests:** microbial natural products; natural products isolation and structure elucidation; biosynthesis; enzymology; actinomycetes; drug discovery

**Dr. Ken Kikuchi**

**SciProfiles** (<https://sciprofiles.com/profile/1434930>)

Department of Infectious Diseases, Tokyo Women's Medical University, Tokyo, Japan

**Interests:** antibiotic resistance; ELISA; antibodies; antimicrobials; Gel Electrophoresis; cloning; bacteriology; general microbiology; microbial molecular biology; environmental microbiology

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Antimicrobial Resistance (AMR) in Japan, Present, Past Fact and Next Strategy under COVID-19 Pandemic*** ([/journal/antibiotics/special\\_issues/amr\\_japan](/journal/antibiotics/special_issues/amr_japan))

**Dr. Gwen Knight**

**Website** (<https://www.lshhtm.ac.uk/aboutus/people/knight.gwen>) **SciProfiles** (<https://sciprofiles.com/profile/1897477>)

The London School of Hygiene and Tropical Medicine, Keppel Street, London, UK

**Interests:** population modelling; antibiotic resistance; horizontal gene transfer; generalised transduction; bacteriophage; drivers of resistance



**Prof. Dr. Kwan Soo Ko**

**Website** (<http://biomed.skku.edu/medbact>) **SciProfiles** (<https://sciprofiles.com/profile/810706>)

Department of Microbiology, Sungkyunkwan University School of Medicine, Seoul, Korea

**Interests:** antibiotic resistance; bacterial evolution

**Prof. Dr. Wen-Chien Ko**

**Website** (<https://researchoutput.ncku.edu.tw/en/persons/wen-chien-ko/network/>)

Department of Medicine, National Cheng Kung University, Tainan, Taiwan

**Interests:** bacterial resistance; antibiotic treatment; bacterial infection; AIDS

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Next-Generation Interventions for Clostridioides difficile Infections to Minimize Microbiota Disturbance, Increase Efficacy, and Decrease Recurrence*** ([/journal/antibiotics/special\\_issues/Interventions\\_CD1](/journal/antibiotics/special_issues/Interventions_CD1))

**Prof. Dr. Milan Kolar**

**Website1** (<https://www.fnol.cz/en/clinics-institutes-departments/departments-of-microbiology/personal-a-contacts>)

**Website2** (<https://publons.com/researcher/4160421/milan-kolar/>)

Faculty of Medicine and Dentistry and University Hospital Olomouc, Palacky University, Olomouc, Czech Republic

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**Interests:** bacterial infections; antibiotic therapy; antibiotic resistance

**Prof. Dr. Brigitte König**

**Website** (<https://www.uniklinikum-leipzig.de/einrichtungen/mikrobiologie/unsere-mitarbeiter/>)

**SciProfiles** (<https://sciprofiles.com/profile/1589724>)

Department of Medical Microbiology, Virology and Epidemiology of Infectious Diseases, Medical Faculty, University of Leipzig, Liebig Str. 21, 04103 Leipzig, Germany

**Interests:** antimicrobial resistance; infectious immunology; molecular biology; microbial metabolism; mitochondria

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: The Use of Antibiotics in Pediatric Treatment and Its Challenges*** ([/journal/antibiotics/special\\_issues/antibiotics\\_in\\_pediatric](/journal/antibiotics/special_issues/antibiotics_in_pediatric))

**Prof. Dr. Victoria Korolik**

**Website** (<https://experts.griffith.edu.au/19086-victoria-korolik>) **SciProfiles** (<https://sciprofiles.com/profile/1000417>)

Institute for Glycomics, Griffith University, Gold Coast, QLD 4222, Australia

**Interests:** molecular pathogenesis; molecular mimicry; host-microbe interactions; chemotaxis; novel antimicrobials and biofilms

**Dr. Norbert Kreuzinger**

**Website** (<http://iwr.tuwien.ac.at/en/water>)

Institute for Water Quality and Resource Management, Research Center for Water Quality Management, Technische Universität Wien, 1040 Vienna, Austria

**Interests:** ABR in the aquatic environment; ABR in wastewater treatment; ecological mechanisms linked to ABR

**Prof. Dr. Samir Kumar-Singh**

**Website** (<https://www.uantwerpen.be/en/staff/samir-kumar-singh/>) **SciProfiles** (<https://sciprofiles.com/profile/757638>)

Faculty of Medical & Health Sciences, Group Leader - Molecular Pathology Laboratory of Cell Biology & Histology, Universiteit Antwerpen, Antwerpen, Belgium

**Interests:** hospital-acquired pneumonia; community acquired pneumonia; clinical trials; therapeutic antibodies; pre-clinical models; pathology

**Priv.-Doz. Dr. Souvik Kusari**

**Website** (<https://ccb.tu-dortmund.de/en/department/cf/cms/team/kusari/>)

**SciProfiles** (<https://sciprofiles.com/profile/962599>)

Center for Mass Spectrometry (CMS), Department of Chemistry and Chemical Biology, Technische Universität Dortmund, Otto-Hahn-Str. 6, 44221 Dortmund, Germany

**Interests:** metabolomics; imaging mass spectrometry; natural product chemistry; microbial drug discovery; antimicrobials; plant-microbe interactions; chemical ecology; molecular ecology; endophytes; phytopathogens; biocontrol organisms; biologics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Molecules: Natural Products from Plant-Associated Microorganisms*** ([/journal/molecules/special\\_issues/NP\\_Micro](/journal/molecules/special_issues/NP_Micro))



**Dr. Elizabeth Martin Kutter**

**Website1** (<http://blogs.evergreen.edu/phage/about/>) **Website2** ([https://www.researchgate.net/profile/Elizabeth\\_Kutter](https://www.researchgate.net/profile/Elizabeth_Kutter))

**SciProfiles** (<https://sciprofiles.com/profile/143726>)

PhageBiotics Research Foundation, The Evergreen State College, 2700 Evergreen Parkway NW, Olympia, WA 98505, USA

**Interests:** phage; bacteriophage; bacteriophage therapy; phage metabolism; phage genetics

**Prof. Dr. Timo Juhani Lajunen**

**Website** (<https://www.ntnu.no/ansatte/timo.lajunen>) **SciProfiles** (<https://sciprofiles.com/profile/813246>)

Department of Psychology, Norwegian University of Science and Technology (NTNU), Trondheim, Norway

**Interests:** antibiotic use in community; cultural differences; behavioural change; personality; attitudes; risk

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Antibiotic Use in the Communities*** ([/journal/antibiotics/special\\_issues/Communities\\_Antibiotics](/journal/antibiotics/special_issues/Communities_Antibiotics))

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**Dr. John Lambert****Website** (<https://www.mater.ie/consultants/dr-john-lambert/>)

Department of Infectious Diseases, University College Dublin, Dublin, Ireland

**Interests:** infectious diseases; tickborne infections; Congenital Lyme and infections in pregnancy, HIV and tropical medicine, blood borne infections (HBV, HCV)**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Antibiotics: The Evidence Base for Treatment of Tickborne Infections** ([/journal/antibiotics/special\\_issues/tickborne\\_infect](/journal/antibiotics/special_issues/tickborne_infect))Special Issue in **Microorganisms: Viral Infections Acquired in Pregnancy and through Breastfeeding: Novel Approaches to an Old Paradigm** ([/journal/microorganisms/special\\_issues/infections\\_pregnancy\\_breastfeeding](/journal/microorganisms/special_issues/infections_pregnancy_breastfeeding))Special Issue in **Microorganisms: Viral Infections Acquired in Pregnancy and through Breastfeeding: Novel Approaches to an Old Paradigm 2.0** ([/journal/microorganisms/special\\_issues/infections\\_pregnancy\\_breastfeeding\\_2](/journal/microorganisms/special_issues/infections_pregnancy_breastfeeding_2))**Prof. Dr. Cornelia B. Landersdorfer****Website1** (<https://research.monash.edu/en/persons/cornelia-landersdorfer>) **Website2** (<https://www.monash.edu/pharm/research/areas/drug-delivery/researchers/cornelia-landersdorfer>) **SciProfiles** (<https://sciprofiles.com/profile/747120>)

Centre for Medicine Use and Safety, Monash University, Melbourne, VIC, Australia

**Interests:** antimicrobial pharmacokinetics/pharmacodynamics; pharmacokinetic modeling; antibiotic combination; drug delivery; dose optimization**Prof. Dr. Pierre-François Laterre****Website** (<https://sluccc.eu/our-physicians/2-pierre-francois-laterre.html>)

Intensive Care Unit, St Luc University Hospital, Université Catholique de Louvain, 10 Avenue, 1200 Brussels, Belgium

**Interests:** sepsis; ARDS; intraabdominal infection; pneumonia**Prof. Dr. Amparo Latorre****Website** (<https://www.uv.es/uvweb/college/en/profile-1285950309813.html?p2=latorre>)**SciProfiles** (<https://sciprofiles.com/profile/29115>)

Institute of Integrative System Biology (I2SysBio), University of Valencia/CSIC, C/Catedrático José Beltrán, 2, 46980 Valencia, Spain

**Interests:** symbiosis; comparative genomics; human and insect gut microbiota; antibiotics treatment; omics approaches**Special Issues, Collections and Topics in MDPI journals**Special Issue in **Life: Evolution of Mutualistic Symbiosis** ([/journal/life/special\\_issues/symbiosis](/journal/life/special_issues/symbiosis))**Prof. Dr. Sue Latter****Website** (<https://www.southampton.ac.uk/healthsciences/about/staff/sml.page>)

School of Health Sciences, University of Southampton, Southampton SO17 1BJ, UK

**Interests:** antimicrobial stewardship; qualitative and quantitative research exploring the determinants of antimicrobial use and resistance**Dr. Adina-N. Lazar****Website** ([http://lamcos.insa-lyon.fr/fiche\\_personnelle.php?p=33&Numpers=1825&L=1](http://lamcos.insa-lyon.fr/fiche_personnelle.php?p=33&Numpers=1825&L=1))

National Institute of Applied Sciences, BioSciences Department, University of Lyon, 69007 Lyon, France

**Interests:** Drug design; polyphenols; supramolecular complexes; lipids; biomarkers; biomechanics; mass spectrometry; brain pathologies**Prof. Dr. Ahmed Lebrihi****Website** (<https://lgc.cnrs.fr>)

Laboratoire de Génie Chimique UMR 5503, Institut National Polytechnique de Toulouse, Toulouse, France

**Interests:** secondary metabolites; mycotoxins; metabolites regulation Biochemistry; Biotechnology; Microbiology; PCR; Cloning**Prof. Dr. Bong-Jin Lee****Website1** (<http://nmr417.snu.ac.kr>) **Website2** (<https://snupharm.snu.ac.kr/ko/node/232>)

The Research Institute of Pharmaceutical Sciences, College of Pharmacy, Seoul National University, Seoul, Korea

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**Interests:** peptide drug; antimicrobial peptide; structural study on antibiotic target proteins; toxin-antitoxin systems

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Molecules: Recent Advances in Biomolecular NMR Spectroscopy*** (</journal/molecules>)

***/special\_issues/NMR***

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**Prof. Dr. Je Chul Lee**

**Website** ([http://med.knu.ac.kr/eng/05\\_department/department\\_01\\_1.html?uid=13](http://med.knu.ac.kr/eng/05_department/department_01_1.html?uid=13))

**SciProfiles** (<https://sciprofiles.com/profile/1020762>)

School of Medicine, Kyungpook National University, Daegu, Korea

**Interests:** antimicrobial resistance of Gram (-) non-fermenters; epidemiology of resistant bacteria; development of novel alternatives; bacteria-derived membrane vesicles



**Prof. Dr. Jorge H. Leitão**

**Website** (<https://fenix.tecnico.ulisboa.pt/homepage/ist14034>) **SciProfiles** (<https://sciprofiles.com/profile/218790>)

Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal

**Interests:** molecular microbiology; biology and biochemistry of Gram-negative bacteria; bacterial small non-coding regulatory RNAs; mechanisms of resistance to antimicrobials; development of new antimicrobials; vaccine research

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***International Journal of Molecular Sciences: Microbial Virulence Factors*** ([/journal/ijms/special\\_issues/Virulence\\_Factors](/journal/ijms/special_issues/Virulence_Factors))

Special Issue in ***Vaccines: Omics and Bioinformatics Approaches to Identify Novel Antigens for Vaccine Investigation and Development*** ([/journal/vaccines/special\\_issues/Omics\\_Bioinformatics](/journal/vaccines/special_issues/Omics_Bioinformatics))

Special Issue in ***Antibiotics: New Insights into Antibacterial Compounds: From Synthesis and Discovery to Molecular Mechanisms of Action*** ([/journal/antibiotics/special\\_issues/Antibacterial\\_](/journal/antibiotics/special_issues/Antibacterial_))

Special Issue in ***International Journal of Molecular Sciences: Microbial Virulence Factors 2.0*** ([/journal/ijms/special\\_issues/Virulence\\_Factors\\_2](/journal/ijms/special_issues/Virulence_Factors_2))

Special Issue in ***Antibiotics: The Quest for Novel Antimicrobials: From Chemical Synthesis and Discovery to Mechanisms of Action and Resistance*** ([/journal/antibiotics/special\\_issues/novel\\_antimicrobial](/journal/antibiotics/special_issues/novel_antimicrobial))

Special Issue in ***Vaccines: Microbial Antigen Identification and Vaccine Delivery Systems*** ([/journal/vaccines/special\\_issues/micro\\_vaccines](/journal/vaccines/special_issues/micro_vaccines))

Special Issue in ***Vaccines: Advancing Vaccine Research: Contributions from Molecular, Cellular, and Omics Approaches*** ([/journal/vaccines/special\\_issues/Omics\\_Vaccines](/journal/vaccines/special_issues/Omics_Vaccines))

Topical Collection in ***International Journal of Molecular Sciences: Microbial Virulence Factors*** ([/journal/ijms/special\\_issues/Micr\\_Virulence\\_Factors](/journal/ijms/special_issues/Micr_Virulence_Factors))

Special Issue in ***Vaccines: Feature Papers of DNA and mRNA Vaccines*** ([/journal/vaccines/special\\_issues/DNA\\_mRNA\\_vaccines](/journal/vaccines/special_issues/DNA_mRNA_vaccines))

**Dr. Susanna Su Jan Leong**

**Website** (<https://bch.nus.edu.sg/susannaleong.htm>)

Department of Biochemistry, Yong Loo Lin School of Medicine, National University of Singapore, Singapore

**Interests:** microbial engineering for biofuels production; engineering antimicrobial molecules: structure-function studies

**Dr. Michal Letek**

**Website** (<https://orcid.org/0000-0002-9509-5174>) **SciProfiles** (<https://sciprofiles.com/profile/527948>)

Department of Molecular Biology, Area of Microbiology, Universidad de León, 24071 León, Spain

**Interests:** intracellular pathogens; genome evolution; drug screening; redox biology; drug repurposing

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Novel Strategies against Pathogenic Bacteria*** ([/journal/antibiotics/special\\_issues/strategies\\_bacteria](/journal/antibiotics/special_issues/strategies_bacteria))

Special Issue in ***Antibiotics: Alternative Approaches to Treating Antimicrobial Resistant Infections*** ([/journal/antibiotics/special\\_issues/alternative\\_antibiotics](/journal/antibiotics/special_issues/alternative_antibiotics))

Special Issue in ***Life: How Stress and Antibiotic Exposure Affect Bacterial Intra- and Inter-species Competition*** ([/journal/life/special\\_issues/Stress\\_Antibiotic\\_Bacterial\\_Competition](/journal/life/special_issues/Stress_Antibiotic_Bacterial_Competition))

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Special Issue in [Life: Bacterial Interaction under Stress \(/journal/life/special\\_issues/bacterial\\_interaction\)](#)

Special Issue in [Antibiotics: Alternative Approaches to Treating Antimicrobial Resistant Infections - 2nd Volume \(/journal/antibiotics/special\\_issues/alternative\\_antimicrobial\)](#)

Topics: [Redox in Microorganisms \(/topics/Redox\\_Microorganisms\)](#)

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#### Prof. Dr. Roger C Levesque

[Website \(http://www.ibis.ulaval.ca/en/research/roger-levesque/\)](#) [SciProfiles \(https://sciprofiles.com/profile/41651\)](#)

Microbiologie Médecine FRQS Chercheur Boursier Mérite Exceptionnel, Institut de Biologie Intégrative et des Systèmes (IBIS), Université Laval, Québec, QC G1K 7P4, Canada

**Interests:** antimicrobial Resistance; antimicrobial evolution, novel compounds; bacteriophages; microbial and insect OMICS; 3D-Bioprinting; enteropathogens and drug resistance in waste water; universal vaccines

#### Prof. Dr. Geraldine Leydon

[Website \(https://www.southampton.ac.uk/medicine/about/staff/gerry.page\)](#)

School of Primary Care, Population Sciences and Medical Education, University of Southampton, Aldermoor Close, Southampton SO16 5ST, UK

**Interests:** antibiotic prescribing; primary care; infection

#### Prof. Dr. Jian Li

[Website \(https://research.monash.edu/en/persons/jian-li\)](#) [SciProfiles \(https://sciprofiles.com/profile/327599\)](#)

Biomedicine Discovery Institute, Monash University, Melbourne, Australia

**Interests:** discovery of novel antimicrobials; antimicrobial systems pharmacology; pharmacokinetics, pharmacodynamics and toxicodynamics of antibiotics; mechanisms of activity, resistance, and toxicity of polymyxins; novel formulations for inhalation and parenteral administration of antibiotics



#### Prof. Dr. Huabin Li

[Website \(http://sph.sysu.edu.cn/en/teacher/267\)](#) [SciProfiles \(https://sciprofiles.com/profile/2135\)](#)

Guangdong Provincial Key Laboratory of Food, Nutrition and Health, Department of Nutrition, School of Public Health, Sun Yat-sen University, Guangzhou 510080, China

**Interests:** polyphenols; flavonoids; antibacterial effect; gut microbiota

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [Life: Study of Gut Microbiota in the Regulation of Diseases and Health by Natural Products \(/journal/life/special\\_issues/Gut\\_Microbiotas\)](#)

Special Issue in [Antibiotics: The Antimicrobial and Antivirulent Effects of Natural Products and Their Nanoparticles \(/journal/antibiotics/special\\_issues/Nano\\_Antibiotics\)](#)

#### Prof. Dr. Morten Lindbæk

[Website \(http://www.med.uio.no/helsam/personer/vit/mortenli/index.html\)](#)

The Antibiotic Centre for Primary Care, Department of General Practice, Institute of Health and Society, University of Oslo, Oslo, Norway

**Interests:** primary care; antibiotic

#### Dr. Junyan Liu

[Website \(https://www.researchgate.net/profile/Junyan-Liu-6\)](#) [SciProfiles \(https://sciprofiles.com/profile/1294600\)](#)

Department of Civil and Environmental, University of Maryland, College Park, MD, USA

**Interests:** antimicrobial resistance; biofilms; viable but non-culturable (VBNC) and persistence; stress response; polymicrobial interaction

**Special Issues, Collections and Topics in MDPI journals**

Topical Collection in [Antibiotics: Antimicrobial Resistance and Anti-Biofilms \(/journal/antibiotics/special\\_issues/conference\\_Biofilms\)](#)

#### Dr. Thomas Lodise

[Website \(https://www.acphs.edu/thomas-lodise\)](#)

Albany College of Pharmacy, Albany, NY, USA

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**Interests:** PK/PD; outcomes; antibiotics; epidemiology



**Dr. Paola Londei**

**Website** ([https://phd.uniroma1.it/web/PAOLA-LONDEI\\_nC255\\_IT.aspx](https://phd.uniroma1.it/web/PAOLA-LONDEI_nC255_IT.aspx))



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Department of Molecular Medicine, Sapienza University of Rome, Viale Regina Elena 291/324, 00161 Rome, Italy

**Interests:** translation inhibitors; archaeal antibiotics; ribosome antibiotic binding sites

**Prof. Dr. Graciela Lorca**

**Website** (<http://microcell.ufl.edu/people/faculty-directory/lorca/>) **SciProfiles** (<https://sciprofiles.com/profile/1134681>)

Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL, USA

**Interests:** Type I Diabetes; probiotics; antimicrobials; citrus greening disease

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Antimicrobials and Diabetes: Role in Onset and/or Treatment](#)** ([/journal/antibiotics/special\\_issues/antimicro\\_diabetes](#))

**Dr. José Luis Fernández**

**Website** (<http://www.inibic.es/portfolio-items/dano-de-adn-y-cromosomas-toxicogenetica/>)

**SciProfiles** (<https://sciprofiles.com/profile/1500204>)

Genetics Unit, INIBIC-Complejo Hospitalario Universitario A Coruña (CHUAC), 15006 A Coruña, Spain; Molecular Genetics and Radiobiology Laboratory, Centro Oncológico de Galicia, 15009 A Coruña, Spain

**Interests:** antibiotic resistance; phenotypic assays; rapid assays; microscope assays; DNA damage assays

**Dr. Fabrizio Luppi**

**Website** (<https://www.unimib.it/fabrizio-luppi>)

Respiratory Unit, S. Gerardo Hospital, University of Milano Bicocca, 20900 Monza, Italy

**Interests:** pneumonias; chronic obstructive pulmonary disease exacerbations; interstitial lung diseases; tuberculosis

**Prof. Dr. Andriy Luzhetskyy**

**Website** (<https://www.helmholtz-hzi.de/en/research/research-topics/anti-infectives/actinobacteria-metabolic-engineering/andriy-luzhetskyy/>)

Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Saarbrücken, Germany

**Interests:** antibiotics resistance; infectious diseases; actinomycetes

**Prof. Dr. Roberto Luzzati**

**Website** ([https://asugi.sanita.fvg.it/it/personale/!p\\_luzzati.html](https://asugi.sanita.fvg.it/it/personale/!p_luzzati.html))

Azienda sanitaria universitaria Giuliano Isontina (ASU GI), Trieste, Italy

**Interests:** vancomycin-resistant enterococci; invasive fungal infections; antibiotic stewardship; epidemiology



**Prof. Dr. Filippo Maggi**

**Website** ([https://www.researchgate.net/profile/Filippo\\_Maggi](https://www.researchgate.net/profile/Filippo_Maggi)) **SciProfiles** (<https://sciprofiles.com/profile/190370>)

School of Pharmacy, University of Camerino, Camerino, Italy

**Interests:** medicinal and aromatic plants; essential oils; green extraction; phytochemistry; bioactivity

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Plants: Applications of Plant-Borne Essential Oils from Lamiaceae, Asteraceae and Apiaceae](#)** ([/journal/plants/special\\_issues/plant\\_borne\\_oils](#))

Special Issue in **[Molecules: Recent Advances in Extraction, Phytochemical Analysis and Bioactivity of Nonfood Plants with Well Established Relationships with Humans](#)** ([/journal/molecules/special\\_issues/bioactivity\\_nonfood\\_plant](#))

Special Issue in **[Antibiotics: Antiprotozoal Activity of Natural Products](#)** ([/journal/antibiotics/special\\_issues/anti\\_protozoal\\_activity](#))

Special Issue in **[Plants: Insecticidal Activity of Plant Secondary Metabolites](#)** ([/journal/plants/special\\_issues/insecticidal\\_metabolites](#))

Special Issue in **[Pharmaceuticals: Bioactive Compounds from Plants and Foods with Pharmaceutical Interest 2022](#)** ([/journal/pharmaceuticals/special\\_issues/bio\\_plants](#))

**Prof. Dr. Ulf Magnusson**

**Website** (<https://www.slu.se/en/cv/ulf-magnusson/>) **SciProfiles** (<https://sciprofiles.com/profile/1199830>)

Department of Clinical Sciences, Division of Reproduction, Swedish University of Agricultural Sciences, P.O. Box 7054, SE-750 07 Uppsala, Sweden

**Interests:** livestock; Low- and middle-income countries; antimicrobial use; antimicrobial resistance and transmission; antimicrobial policies

**Dr. Giuseppantonio Maisetta**

**Website** ([https://www.researchgate.net/profile/Giuseppantonio\\_Maisetta](https://www.researchgate.net/profile/Giuseppantonio_Maisetta))

**SciProfiles** (<https://sciprofiles.com/profile/110116>)

Department of Translational Research and New technologies in Medicine and Surgery, University of Pisa, 56126 Pisa, Italy

**Interests:** bacteria; pathogens; biofilm; bacterial virulence; persisters; antimicrobial peptides; antibiotics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***International Journal of Molecular Sciences: Microbial Biofilms and Antibiofilm Agents*** ([/journal/ijms/special\\_issues/Biofilms\\_Antibiofilm](/journal/ijms/special_issues/Biofilms_Antibiofilm))

Special Issue in ***Microorganisms: Anti-virulence Strategies against Microbial Pathogens*** ([/journal/microorganisms/special\\_issues/Anti-virulence\\_Strategies](/journal/microorganisms/special_issues/Anti-virulence_Strategies))

Special Issue in ***International Journal of Molecular Sciences: Microbial Biofilms and Antibiofilm Agents 2.0*** ([/journal/ijms/special\\_issues/biofilms\\_antibiofilm\\_2](/journal/ijms/special_issues/biofilms_antibiofilm_2))

**Prof. Dr. Manu L.N.G. Malbrain**

**Website** (<http://www.fluidacademy.org/>) **SciProfiles** (<https://sciprofiles.com/profile/1002379>)

Faculty of Medicine and Pharmacy, Vrije Universiteit Brussel (VUB), Laarbeeklaan 103, 1090 Jette, Belgium

**Interests:** sepsis; abdominal sepsis; pancreatitis; fluid therapy; abdominal hypertension; hemodynamic monitoring; pharmacodynamics; pharmacokinetics; therapeutic drug monitoring; body composition

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Life: Intra-Abdominal Hypertension and Abdominal Compartment Syndrome*** ([/journal/life/special\\_issues/abdominal\\_pressure](/journal/life/special_issues/abdominal_pressure))

**Prof. Dr. Ines Mancini**

**Website1** (<https://www.physics.unitn.it/en/91/bio-organic-chemistry>) **Website2** (<https://www.researchgate.net/profile/Ines-Mancini>) **SciProfiles** (<https://sciprofiles.com/profile/70778>)

Department of Physics, Bioorganic Chemistry Laboratory, University of Trento, Via Sommarive 14, I-38123 Povo-Trento, Italy

**Interests:** bioactive natural products; marine metabolites; synthesis of biologically active molecules; medicinal chemistry

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Marine Drugs: Bioactive Compounds from Coral Reef Organisms*** ([/journal/marinedrugs/special\\_issues/Coral\\_Reef\\_Organisms](/journal/marinedrugs/special_issues/Coral_Reef_Organisms))

Special Issue in ***Marine Drugs: Total Synthesis of Marine Natural Products and Analogues*** ([/journal/marinedrugs/special\\_issues/total\\_synthesis\\_of\\_marine\\_natural\\_products\\_and\\_analogues](/journal/marinedrugs/special_issues/total_synthesis_of_marine_natural_products_and_analogues))

**Prof. Dr. Maria Luisa Mangoni**

**Website** (<http://www.marialuisamangoni.it>) **SciProfiles** (<https://sciprofiles.com/profile/785960>)

Department of Biochemical Sciences, Faculty of Pharmacy and Medicine, Sapienza University of Rome, Rome, Italy

**Interests:** antimicrobial peptides; peptide-membrane interaction; cystic fibrosis; infectious diseases; pneumonia; keratitis; drug development; wound healing; *Pseudomonas aeruginosa*

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Development of Antimicrobial Peptides from Amphibian*** ([/journal/antibiotics/special\\_issues/antipeptide\\_amphibian](/journal/antibiotics/special_issues/antipeptide_amphibian))

**Prof. Dr. Alexander Mankin**

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**Website** (<https://pharmacy.uic.edu/people-resources/directory/shura>)

Molecular Biology Research Building, University of Illinois at Chicago, Chicago, IL, USA

**Interests:** molecular mechanisms of protein synthesis; mechanisms of antibiotic action; mechanisms of antibiotic resistance

**Dr. Dror Marchaim**

**Website** (<https://www.researchgate.net/profile/Dror-Marchaim>) **SciProfiles** (<https://sciprofiles.com/profile/343975>)

Unit of Infection Control, Shamir (Assaf Harofeh) Medical Center, Zerifin, Beer Yaakov 70300, Israel

Sackler School of Medicine, Tel-Aviv University, Tel-Aviv 69978, Israel

**Interests:** infectious disease epidemiology; molecular epidemiology; infectious disease control and prevention; antimicrobial resistance



**Prof. Dr. William Margolin**

Department of Microbiology and Molecular Genetics, University of Texas Health Science Center, Houston, TX, USA

**Interests:** bacterial cell division; FtsZ; antibiotics targeting cell division proteins

**Dr. Filippo Mariano**

**Website** ([https://medchirurgia.campusnet.unito.it/do/docenti.pl/Show?\\_id=fmariano#tab-profilo](https://medchirurgia.campusnet.unito.it/do/docenti.pl/Show?_id=fmariano#tab-profilo))

**SciProfiles** (<https://sciprofiles.com/profile/1762370>)

Department of Medical Sciences, University of Turin, Turin, Italy

**Interests:** acute kidney injury; continuous renal replacement therapy; citrate anticoagulation; burns; polytrauma; septic shock

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Journal of Clinical Medicine: Clinical Management of End-Stage Renal Disease and Hemodialysis Patients with Diabetes*** ([/journal/jcm/special\\_issues/Clinical\\_Management\\_Hemodialysis](/journal/jcm/special_issues/Clinical_Management_Hemodialysis))



**Prof. Dr. Flavia Marinelli**

**Website** (<https://www.uninsubria.it/hpp/flavia.marinelli>) **SciProfiles** (<https://sciprofiles.com/profile/773509>)

Dipartimento di Biotecnologie e Scienze della Vita, Università degli Studi dell'Insubria, Via J.H. Dunant 3, 21100 Varese, Italy

**Interests:** actinomycetes; natural products; antibiotics; resistome; glycopeptides; lantibiotics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Fermentation: Specialized Metabolites from Actinomycetes: From Gene to Product and Back*** ([/journal/fermentation/special\\_issues/metabolite-actinomycete](/journal/fermentation/special_issues/metabolite-actinomycete))

Special Issue in ***Antibiotics: Antibiotics Acting on Cell Wall*** ([/journal/antibiotics/special\\_issues/antibiotics\\_cell\\_wall](/journal/antibiotics/special_issues/antibiotics_cell_wall))

Special Issue in ***Antibiotics: A Selection of Studies Presented at Biotech 2020 Symposium*** ([/journal/antibiotics/special\\_issues/biotech\\_2020](/journal/antibiotics/special_issues/biotech_2020))

Special Issue in ***Fermentation: Fermentation Processes to Produce Specialized Metabolites*** ([/journal/fermentation/special\\_issues/fermentation\\_processes\\_metabolites](/journal/fermentation/special_issues/fermentation_processes_metabolites))

**Dr. Andreana Marino**

**Website** (<https://www.researchgate.net/profile/Andreana-Marino>) **SciProfiles** (<https://sciprofiles.com/profile/32789>)

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy

**Interests:** antimicrobials; biofilm; plant extracts; natural antimicrobial compounds; ocular infection

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Microorganisms: Natural Antimicrobial Compounds*** ([/journal/microorganisms/special\\_issues/antimicrobial\\_compounds](/journal/microorganisms/special_issues/antimicrobial_compounds))



**Prof. Dr. David Martin**

**Website** (<https://www.uni-wh.de/detailseiten/kontakte/david-martin-2607/f0/>)

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Institute of Integrative Medicine, University of Witten/Herdecke, Herdecke, Germany

Interests: pediatrics; pediatric oncology; integrative medicine; fever

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Natural Antimicrobials and Alternatives to Antimicrobials** ([https://www.mdpi.com/journal/antibiotics/special\\_issues/Alternative\\_Plant\\_Antibio](https://www.mdpi.com/journal/antibiotics/special_issues/Alternative_Plant_Antibio))

**Prof. Ignacio Martín-Loeches**

**Website** (<https://www.tcd.ie/medicine/staff/imartin/>) **SciProfiles** (<https://sciprofiles.com/profile/225132>)

Department of Clinical Medicine, Trinity College Dublin, Ireland, Dublin

Interests: critical care; ICU; sepsis; shock; ards

**Dr. Josep Mas-Pla**

**Website** (<https://www.udg.edu/ca/directori/pagina-personal?om=IG&ID=53833&AP=1599&language=en-US>)

Catalan Institute for Water Research & University of Girona, 17003 Girona, Spain

Interests: hydrogeology; environmental quality; groundwater pollution; emerging contaminants (pharmaceuticals, antibiotics)

**Prof. Dr. Thorsten Mascher**

**Website** ([https://tu-dresden.de/mn/biologie/mikro/allgemeine\\_mikrobiologie/](https://tu-dresden.de/mn/biologie/mikro/allgemeine_mikrobiologie/))

Institute of Microbiology, Technische Universität (TU) Dresden, 01069 Dresden, Germany

Interests: gene regulation; molecular mechanisms; signal transduction; synthetic biology; antibiotic resistance; *Bacillus subtilis*



**Dr. Mohsen Mazidi**

**Website1** (<https://www.ndph.ox.ac.uk/team/mohsen-mazidi>) **Website2** (<https://www.ctsu.ox.ac.uk/team/mohsen-mazidi>)

Oxford Big Data Institute, Medical Sciences Division, University of Oxford, Oxford, UK

Interests: microbiome; metabolites; proteomics; personalized medicine

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Nutrients: Low-Carbohydrate Diets and Their Impact on Type 2 Diabetes and Cardiometabolic Risk** ([/journal/nutrients/special\\_issues/low\\_carbohydrate](https://www.mdpi.com/journal/nutrients/special_issues/low_carbohydrate))

**Dr. Michael J. McConnell**

**Website** (<https://scholar.google.es/citations?user=IU94SJkAAAAJ&hl=en>)

Instituto de Salud Carlos III, Madrid, Spain

Interests: antibiotic resistance; gram negative bacteria; *acinetobacter baumannii*; antibiotic resistance mechanisms

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Vaccines: Vaccines Against Antibiotic Resistant Bacteria: From Bench to Bedside** ([/journal/vaccines/special\\_issues/vaccines\\_against\\_antibiotic\\_resistant\\_bacteria](https://www.mdpi.com/journal/vaccines/special_issues/vaccines_against_antibiotic_resistant_bacteria))



**Dr. Neil McEwan**

**Website** (<https://www3.rgu.ac.uk/dmstaff/mcewan-neil>)

School of Pharmacy and Life Sciences, Robert Gordon University, Aberdeen AB10 7AQ, Scotland, UK

Interests: rumen microbiology; herbivore digestive tract microbiology; lateral gene transfer; codon usage

**Dr. Lynne V. McFarland**

**Website** (<https://www.linkedin.com/in/lynne-mcfarland-64548b33/>)

Department of Medicinal Chemistry, University of Washington, 1660 South Columbia Way, S-152, Seattle, WA 98108, USA

Interests: therapeutic uses of probiotics; epidemiology of *Clostridium difficile* disease; meta-analysis methods; improving health of veterans



**Dr. Robert McFeeters**

**Website** (<https://www.uah.edu/faculty/mcfeetersrl>)

Department of Chemistry, University of Alabama in Huntsville, Huntsville, AL 35899, USA

**Interests:** protein biochemistry; antifungal development; novel antimicrobial approaches



**Dr. Milena Mechkarska**

**Website** (<https://sta.uwi.edu/fst/lifesciences/staff/milena-mechkarska>)

**SciProfiles** (<https://sciprofiles.com/profile/1216660>)

Department of Life Sciences, Faculty of Science and Technology, The University of the West Indies (The UWI), St. Augustine Campus, St. Augustine, Trinidad and Tobago

**Interests:** antimicrobial peptides; bioactive host-defence peptides; immunomodulators; venoms; novel therapeutics; drug development; host-pathogen interactions and host response to infections; multi-drug resistance

**Dr. Luís Melo**

**Website** (<https://www.ceb.uminho.pt/People/Details/b2d79e85-fc18-453a-8637-0e91411f6828>)

**SciProfiles** (<https://sciprofiles.com/profile/387079>)

Laboratory of Research in Biofilms Rosário Oliveira, Centre of Biological Engineering, University of Minho, Braga, Portugal

**Interests:** bacteriophage; phage-host interactions; biofilms; endolysins; phage therapy; phage genomics and evolution

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: New Insights on Biofilm Antimicrobial Strategies*** ([/journal/antibiotics/special\\_issues/biofilm\\_antimicro](/journal/antibiotics/special_issues/biofilm_antimicro))

Special Issue in ***Antibiotics: New Insights on Biofilm Antimicrobial Strategies, 2nd Volume*** ([/journal/antibiotics/special\\_issues/biofilm\\_2nd](/journal/antibiotics/special_issues/biofilm_2nd))

Special Issue in ***Antibiotics: Pathogenic Mechanism and Infection Control of Staphylococcus aureus*** ([/journal/antibiotics/special\\_issues/aureus\\_antibiotics](/journal/antibiotics/special_issues/aureus_antibiotics))

**Dr. Mathieu Metifiot**

**Website** (<https://www.mfp.cnrs.fr/wp/contact/1167/>) **SciProfiles** (<https://sciprofiles.com/profile/836466>)

Laboratoire MFP, CNRS UMR5234, Université de Bordeaux, 146rue Léo Saignat, 33076 Bordeaux CEDEX, France

**Interests:** HIV-1 integration; antiretroviral therapy and resistance; cellular regulation; post-translational modification; compound screening and structure-activity relationship.



**Prof. Dr. Maria Lina Mezzatesta**

**Website** (<http://www.biometec.unict.it/docenti/maria.lina.mezzatesta>)

**SciProfiles** (<https://sciprofiles.com/profile/1212596>)

Istituto di Microbiologia, Università degli Studi di Catania, Catania, Italy

**Interests:** new antibiotics; MDR Gram-negative pathogens; molecular epidemiology of Gram-negative bacteria (*Acinetobacter baumannii* and KPC-producing *Klebsiella pneumoniae*); antibiotic-resistance; carbapenemases

**Dr. Archibald Mixson**

Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742, USA

**Interests:** antimicrobial peptides; histatins; echinocandins; magainins; defensins; silver antimicrobials

**Dr. Spiros Miyakis**

**Website** (<https://www.ihmri.org.au/researchers/clinical-professor-spiros-miyakis/>)

School of Medicine, Faculty of Science, Medicine and Health, University of Wollongong, Crown Street, Wollongong, NSW 2500, Australia

**Interests:** Infectious disease; Antimicrobial resistance

**Prof. Dr. Shahriar Mobashery**

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**Website** (<http://chemistry.nd.edu/people/shahriar-mobashery/>)

Department of Chemistry and Biochemistry, Nieuwland Science Center, University of Notre Dame, Notre Dame, IN 46556, USA

**Interests:** new classes of antibiotics; antibiotic mechanism of action; mechanisms of antibiotic resistance

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**Prof. Dr. Mark G. Moloney**

**Website** (<http://research.chem.ox.ac.uk/mark-moloney.aspx>)

Department of Chemistry, University of Oxford, Oxford, UK

**Interests:** antibacterial small molecules; medicinal chemistry; antibacterial drug discovery

**Special Issues, Collections and Topics in MDPI journals**

Topics: **Novel Antimicrobial Agents: Discovery, Design and New Therapeutic Strategies** ([/topics/anti\\_agent](/topics/anti_agent))

**Dr. Yuseok Moon**

Department of Biomedical Sciences, Pusan National University, Yangsan 50612, Korea

**Interests:** Gut immunity; gut pathogens; ribosomal inactivation

**Dr. Catrin Moore**

**Website** (<https://www.bdi.ox.ac.uk/Team/catrin-moore>) **SciProfiles** (<https://sciprofiles.com/profile/1331967>)

The Oxford Global Burden of Disease Group, NDM, University of Oxford Big Data Institute, Li Ka Shing Centre for Health Information and Discovery Old Road Campus, Headington, Oxford OX3 7LF, UK

**Interests:** AMR; antimicrobial use; antimicrobial consumption; microbiology; LMICs

**Prof. Dr. Yuji Morita**

**Website** ([https://www.my-pharm.ac.jp/education/kdb/kyoin/kyoin\\_149.html](https://www.my-pharm.ac.jp/education/kdb/kyoin/kyoin_149.html))

**SciProfiles** (<https://sciprofiles.com/profile/856771>)

Department of Infection Control Science, Meiji Pharmaceutical University, 2-522-1 Noshio, Kiyose, Tokyo, Japan

**Interests:** antimicrobial resistance; antimicrobial action; development of antimicrobial agents or adjuvant; microbial transporter; microbial molecular genetics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Antimicrobial Resistance in Gram-negative Bacteria** ([/journal/antibiotics/special\\_issues/antimicrobial\\_resistance\\_Gram-negative](/journal/antibiotics/special_issues/antimicrobial_resistance_Gram-negative))

Special Issue in **Antibiotics: Antimicrobial Resistance in Gram-Negative Bacteria, 2nd Edition** ([/journal/antibiotics/special\\_issues/anti\\_gram\\_2](/journal/antibiotics/special_issues/anti_gram_2))

Special Issue in **Antibiotics: Antimicrobial Resistance in Gram-Negative Bacteria, 3rd Edition** ([/journal/antibiotics/special\\_issues/anti\\_gram\\_3](/journal/antibiotics/special_issues/anti_gram_3))

**Prof. Dr. Rolf Müller**

**Website** (<https://www.helmholtz-hips.de/en/research/teams/team/microbial-natural-products/>)

**SciProfiles** (<https://sciprofiles.com/profile/1220713>)

Department of Microbial Natural Products, Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Helmholtz Centre for Infection Research (HZI) and Department of Pharmacy, Saarland University, Campus E8 1, 66123 Saarbrücken, Germany

**Interests:** microbial natural products; novel antibiotics; myxobacteria; molecular biology; pharmaceutical biotechnology; genetics; biochemistry; cancer research



**Dr. Óscar Murillo**

**Website** (<https://idibell.cat/en/research/translational-medicine-area/infectious-disease-and-transplantation-program/difficult-to-treat-infections-and-antimicrobials-use/>)

1. Department of Infectious Diseases, Hospital Universitari de Bellvitge, Institut d'Investigació Biomèdica de Bellvitge (IDIBELL), Barcelona, Spain

2. Bone and Joint Infection Study Group of the Spanish Society of Infectious Diseases and Clinical Microbiology (GEIO-SEIMC), Madrid, Spain

**Interests:** Nosocomial infections caused by multidrug-resistant microorganisms; Bone and joint infections; Foreign-body associated infections; Experimental models of biofilm-associated infections

**Special Issues, Collections and Topics in MDPI journals**

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Special Issue in **[Antibiotics: Prosthetic Joint Infection: The Challenges of Prevention, Diagnosis and Treatment and Opportunities for Future Research \(/journal/antibiotics/special\\_issues/joint\\_infection\)](#)**



**Dr. Rita Murri**

**[Website \(https://docenti.unicatt.it/ppd2/it/#/it/docenti/46610/rita-murri/pubblicazioni\)](https://docenti.unicatt.it/ppd2/it/#/it/docenti/46610/rita-murri/pubblicazioni)**

**[SciProfiles \(https://sciprofiles.com/profile/1106698\)](https://sciprofiles.com/profile/1106698)**

Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Università Cattolica del Sacro Cuore, Rome, Italy

**Interests:** antibiotic stewardship; bloodstream infections; abdominal infections; candidemia and invasive fungal infections; COVID-19

**[Special Issues, Collections and Topics in MDPI journals](#)**

Special Issue in **[Antibiotics: Artificial Intelligence and Machine Learning Techniques for Epidemiology, Diagnostic and Treatment of Infectious Diseases \(/journal/antibiotics/special\\_issues/Artificial\\_Anti\)](#)**

**Dr. Eleftherios E. Mylonakis**

**[Website \(http://www.brownmedicine.org/id\)](http://www.brownmedicine.org/id)**

Infectious Diseases, Alpert Medical School, Brown University, Providence, RI, USA

**Interests:** antimicrobial drug discovery; antimicrobial stewardship; microbial resistance

**[Special Issues, Collections and Topics in MDPI journals](#)**

Special Issue in **[Journal of Fungi: Alternative Models for the Study of Fungal Host-Pathogen Interactions \(/journal/jof/special\\_issues/host\\_model\)](#)**



**Prof. Dr. Reza Nassiri**

**[Website \(https://phmtox.msu.edu/people/faculty/nassiri/\)](https://phmtox.msu.edu/people/faculty/nassiri/)**

Department of Community Medicine, Department of Pharmacology & Toxicology, Michigan State University, East Lansing, MI, USA

**Interests:** antibiotics in clinical practice; antibiotic resistance; antibiotic stewardship; nosocomial infections; global health; infections diseases; SARS-CoV-2 infection

**Prof. Dr. Shiri Navon-Venezia**

**[Website \(https://www.ariel.ac.il/sites/Navon-Venezia/research.html\)](https://www.ariel.ac.il/sites/Navon-Venezia/research.html)**

Molecular Biology Department, The Adelson School of Medicine, Ariel University, Ariel 40700, Israel

**Interests:** bacterial resistance and pathogenesis; molecular mechanisms of antibiotic resistance; novel antibacterial drug

**[Special Issues, Collections and Topics in MDPI journals](#)**

Special Issue in **[Animals: Antimicrobial Resistance in Horses \(/journal/animals/special\\_issues/antimicrobial\\_resistance\\_horses\)](#)**

**Dr. Lucia Nencioni**

**[Website \(https://phd.uniroma1.it/web/LUCIA-NENCIONI\\_nC469\\_IT.aspx\)](https://phd.uniroma1.it/web/LUCIA-NENCIONI_nC469_IT.aspx)**

**[SciProfiles \(https://sciprofiles.com/profile/490364\)](https://sciprofiles.com/profile/490364)**

Department of Public Health and Infectious Diseases, Sapienza University of Rome, 00185 Rome, Italy

**Interests:** host/pathogen interaction; bacterial/viral co-infection; antimicrobial peptides; natural products; antiviral/antoinflammatory agents

**Dr. Christel Neut**

**[Website \(http://lille-inflammation-research.org/fr/annuaire/485-neut\)](http://lille-inflammation-research.org/fr/annuaire/485-neut)**

**[SciProfiles \(https://sciprofiles.com/profile/1416536\)](https://sciprofiles.com/profile/1416536)**

Institute for Translational Research in Inflammation (INFINITE), Lille, France

**Interests:** human microbiome; inflammatory bowel disease; natural antimicrobials; antibacterial functionalization of biomaterials; methods to study antimicrobial activities

**[Special Issues, Collections and Topics in MDPI journals](#)**

Special Issue in **[Antibiotics: Carriage of Multiple Drug Resistant \(MDR\) Bacteria in Health \(/journal/antibiotics\)](#)**

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[/special\\_issues/antibiotic\\_mdr\)](#)

Special Issue in [Microorganisms: Future Use of Antibacterial Compounds of Plant Origin \(/journal/microorganisms](#)

[/special\\_issues/Future\\_Use\\_of\\_Antibact\\_Compd\\_of\\_Plant\\_Orig\)](#)



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#### Dr. Catherine Neuwirth

[Website \(https://www.researchgate.net/profile/Catherine\\_Neuwirth\)](https://www.researchgate.net/profile/Catherine_Neuwirth)

[SciProfiles \(https://sciprofiles.com/profile/1506294\)](https://sciprofiles.com/profile/1506294)

Department Centre Hospitalier Universitaire de Dijon, 21000 Dijon, France

**Interests:** resistance among Gram-negative bacilli; genetic support of resistance gene; especially genomic islands (in Proteus and Salmonella); integrons expertise in the field of epidemiology; mechanisms of resistance of Achromobacter that are emerging pathogens among cystic fibrosis patients; resistance; genomic island; integron; Enterobacteriaceae; Achromobacter; efflux

#### Prof. Dr. Vicente Notario

[Website \(https://gufaculty360.georgetown.edu/s/contact/00336000014RxaAAC/vicente-notario\)](https://gufaculty360.georgetown.edu/s/contact/00336000014RxaAAC/vicente-notario)

[SciProfiles \(https://sciprofiles.com/profile/1191856\)](https://sciprofiles.com/profile/1191856)

Department of Radiation Medicine, Lombardi Comprehensive Cancer Center, Georgetown University Medical Center, Washington, DC 20057, USA

**Interests:** phage therapy; antibiotics; cancer; oncology

[Special Issues, Collections and Topics in MDPI journals](#)

Special Issue in [Antibiotics: Frontiers in Phage Therapy \(/journal/antibiotics/special\\_issues/Frontiers\\_Phage-Therapy\)](#)

Special Issue in [Antibiotics: Non-Antimicrobial Actions of Antibiotics \(/journal/antibiotics/special\\_issues/Non\\_Antibiotics\)](#)

#### Prof. Dr. George Notas

[Website \(http://www.english.med.uoc.gr/?q=research/divisions-labs/laboratory-medicine\)](http://www.english.med.uoc.gr/?q=research/divisions-labs/laboratory-medicine)

[SciProfiles \(https://sciprofiles.com/profile/591186\)](https://sciprofiles.com/profile/591186)

Laboratory of Experimental Endocrinology, Heraklion, Crete, Greece

**Interests:** immunoendocrinology, emergency medicine, sepsis

#### Dr. Ângela Novais

[Website \(https://www.requimte.pt/ucibio/people/angela-novais\)](https://www.requimte.pt/ucibio/people/angela-novais)

UCIBIO, Faculdade de Farmácia, Universidade do Porto, 4050-313 Porto, Portugal

**Interests:** clinical bacteriology; molecular epidemiology; mechanisms of resistance; mobile genetic elements; population structure and bacterial typing methods; virulence genetics; microbial taxonomy; molecular spectroscopy

#### Prof. Dr. Evgeny Nudler

[Website \(https://med.nyu.edu/faculty/evgeny-a-nudler\)](https://med.nyu.edu/faculty/evgeny-a-nudler)

Department of Biochemistry & Molecular Pharmacology, New York University School of Medicine, New York, NY 10016, USA

**Interests:** bacterial stress response; mechanisms of antibiotic resistance; molecular mechanisms of bacterial transcription

#### Prof. Dr. Aaron J. Oakley

[Website \(https://smah.uow.edu.au/chem/contacts/UOW112334.html\)](https://smah.uow.edu.au/chem/contacts/UOW112334.html)

School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, Australia

**Interests:** crystallography; protein structure; structural biology; macromolecular structure

[Special Issues, Collections and Topics in MDPI journals](#)

Special Issue in [Antibiotics: Structures of Bacterial Proteins \(/journal/antibiotics/special\\_issues/bacterial\\_pro\\_FP\)](#)

#### Prof. Dr. Jae-Wook Oh

[Website \(http://home.konkuk.ac.kr:8080/cms/Site/jsp/scr/sub.jsp?menuId=14898264\)](http://home.konkuk.ac.kr:8080/cms/Site/jsp/scr/sub.jsp?menuId=14898264)

[SciProfiles \(https://sciprofiles.com/profile/554580\)](https://sciprofiles.com/profile/554580)

Department of Stem Cell and Regenerative Biotechnology, Konkuk University, Seoul, Korea

**Interests:** immunomodulation; (neuro)inflammation; cytokine; glial cells; receptor-mediated signaling; glioblastoma

#### Dr. Alessandra Oliva

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**Website** (<https://www.researchgate.net/profile/Alessandra-Oliva>) **SciProfiles** (<https://sciprofiles.com/profile/493902>)

Department of Public Health and Infectious Diseases, Sapienza University of Rome, 00161 Rome, Italy

**Interests:** antimicrobial resistance; nosocomial infections; biofilm-related infections; *in vitro* synergism; carbapenem-resistance; anti-biofilm antibiotics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Microorganisms: Biofilm-Related Infections in Healthcare*** ([/journal/microorganisms/special\\_issues/biofilm\\_healthcare](/journal/microorganisms/special_issues/biofilm_healthcare))



**Prof. Dr. Abdelwahab Omri**

**Website** (<https://laurentian.ca/faculty/aomri>) **SciProfiles** (<https://sciprofiles.com/profile/900500>)

Department of Chemistry & Biochemistry, Laurentian University, Sudbury, ON P3E 2C6, Canada

**Interests:** the design, formulation, development and characterization of drug and vaccine delivery systems, particularly those based on liposomes; the site-specific targeting, controlled release, drug resistance, pharmacokinetic, pharmacodynamic, metabolism and toxicity of free and liposome-encapsulated biological active agents

**Dr. Gabriella Orlando**

Infectious Disease Clinic, University Hospital Policlinico Modena, Modena, Italy

**Interests:** antimicrobial stewardship; infection control and prevention

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Antimicrobial Stewardship and Infection Control*** ([/journal/antibiotics/special\\_issues/Infection\\_Control](/journal/antibiotics/special_issues/Infection_Control))

**Prof. Dr. Joerg Overhage**

**Website** (<https://www.overhagelab.com>) **SciProfiles** (<https://sciprofiles.com/profile/1163506>)

Health Sciences, Carleton University, Ottawa, ON, Canada

**Interests:** biofilms; antimicrobial resistance; antimicrobial peptides; chronic wound infections; oxidative stress responses; *Pseudomonas aeruginosa*

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Pathogens: Chronic Wound Infections*** ([/journal/pathogens/special\\_issues/Chronic\\_Wound\\_Infections](/journal/pathogens/special_issues/Chronic_Wound_Infections))



**Prof. Dr. Gian Maria Pacifici**

**Website** (<https://openaccesspub.org/editor-profile/gian-maria-pacifici-1098>)

Department of Pharmacology, Medical School, University of Pisa, Pisa, Italy

**Interests:** clinical pharmacology during human development



**Prof. Dr. José M. Padrón**

**Website** (<http://jmpadron.webs.ull.es/>) **SciProfiles** (<https://sciprofiles.com/profile/109471>)

Instituto Universitario de Bio-Organica "Antonio González" (IUBO-AG), Centro de Investigaciones Biomédicas de Canarias (CIBICAN), Universidad de La Laguna, C/Astrofísico Francisco Sánchez 2, 38206 La Laguna, Spain

**Interests:** anticancer compounds; drug discovery; drug design; phenotypic assays; mechanism of action; chemical databases

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Molecules: Phenotypic Drug Discovery*** ([/journal/molecules/special\\_issues/phenotypic\\_drug\\_discovery](/journal/molecules/special_issues/phenotypic_drug_discovery))





**Dr. Leonardo Pagani**

**Website** (<https://www.researchgate.net/profile/Leonardo-Pagani>) **SciProfiles** (<https://sciprofiles.com/profile/1116251>)

Antimicrobial Stewardship Program, Infectious Diseases Unit, Bolzano Central Hospital, 39100 Bolzano, Italy

**Interests:** One Health; antimicrobial stewardship; antimicrobial usage; antimicrobial resistance in clinical settings; antimicrobial pharmacokinetics and pharmacodynamics; infections in critical care; antimicrobial usage in elderly patients

**Dr. Ágnes Pál-Sonnevend**

**Website** (<https://aok.pte.hu/en/egyseg/220/munkatarsak/7894>)

Department of Medical Microbiology and Immunology, University of Pécs Medical School, 7624 Pecs, Hungary

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Mechanism of Carbapenem Resistance in Enterobacteriaceae, Acinetobacter and Pseudomonas aeruginosa** ([/journal/antibiotics/special\\_issues/Carbapenem\\_Resistance](/journal/antibiotics/special_issues/Carbapenem_Resistance))

**Dr. Vijay Pancholi**

**Website** (<https://medicine.osu.edu/mii/faculty/courtesyappointmentfaculty/vijaypancholi/pages/index.aspx>)

**SciProfiles** (<https://sciprofiles.com/profile/212343>)

Department of Pathology, The Ohio State University College of Medicine and Wexner Medical Center, 420 W 12th Avenue, TMRF-288, Columbus, OH 43210, USA

**Interests:** infectious diseases; cellular microbiology; host-pathogen interaction; microbial pathogenesis; mechanism of antibiotic resistance; novel therapeutics

**Prof. Dr. George Panos**

**Website** (<https://www.med.upatras.gr/index.php?r=faculty/view&id=183&lang=en>)

**SciProfiles** (<https://sciprofiles.com/profile/1208971>)

Internal Medicine & Infectious Diseases, University of Patras School of Medicine, Patras University General Hospital, Patras, Greece

**Interests:** infectious diseases; hospital infections; HIV/AIDS; Hepatitides; tropical medicine

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Clinical Approach to Antibiotic Resistance: The Definitive Issue** ([/journal/antibiotics/special\\_issues/Definitive](/journal/antibiotics/special_issues/Definitive))

**Dr. Domenico Paparella**

**Website** ([https://www.researchgate.net/profile/Domenico\\_Paparella](https://www.researchgate.net/profile/Domenico_Paparella))

1. Department of Emergency and Organ Transplant, University of Bari Aldo Moro, Italy  
2. Division of Cardiac Surgery, Santa Maria Hospital, GVM Care & Research, Bari, Italy

**Interests:** infective endocarditis; native heart valves; prosthetic valve endocarditis

**Prof. Dr. Je Won Park**

**Website** (<http://npbe.korea.ac.kr/>)

School of Biosystems and Biomedical Sciences, College of Health Science, Korea University, Seoul 02841, Korea

**Interests:** natural antibiotics; antibiotic combinatorial biosynthesis; biosynthetic pathway and metabolic engineering

**Dr. Ashish Pathak**

**Website** (<https://staff.ki.se/people/ashpat>) **SciProfiles** (<https://sciprofiles.com/profile/80815>)

1. Department of Women and Children's Health| IMCH, Uppsala University, SE-751 05 Uppsala, Sweden  
2. Department of Paediatrics, RD Gardi Medical College, Ujjain 456006, India

**Interests:** infections and antibiotic use in children; antibiotic use; antibiotic resistance; point prevalence survey; outpatient antibiotic use; hospital antibiotic use; rationale use of antibiotics; Gram-negative infections; S. aureus, healthcare associated infections; sepsis; neonatal infections; vaccine preventable infections



Prof. Dr. Federico Pea

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**Website** (<https://www.unibo.it/sitoweb/federico.pea/en>) **SciProfiles** (<https://sciprofiles.com/profile/773439>)

1. Department of Medical and Surgical Sciences, Alma Mater Studiorum, University of Bologna, 40126 Bologna, Italy

2. Director of SSD Clinical Pharmacology, University Hospital IRCCS Policlinico Sant'Orsola, 40126 Bologna, Italy

**Interests:** clinical pharmacokinetics and pharmacodynamics of antimicrobials; application of therapeutic drug monitoring to optimize and personalize therapy in special patient populations

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Pharmaceutics: Drug Interactions of Antimicrobial Agents** ([/journal/pharmaceutics/special\\_issues/Drug\\_Interactions\\_of\\_Antimicrobial\\_Agents](/journal/pharmaceutics/special_issues/Drug_Interactions_of_Antimicrobial_Agents))

Special Issue in **Pharmaceutics: Personalization of Antimicrobial Dosing in Special Patient Populations: A Mandatory Issue in the Era of Precision Medicine** ([/journal/pharmaceutics/special\\_issues/antimicrobial\\_dosing](/journal/pharmaceutics/special_issues/antimicrobial_dosing))

Special Issue in **Antibiotics: 10th Anniversary of Antibiotics—Recent Advances in Pharmacodynamics of Antibiotics** ([/journal/antibiotics/special\\_issues/pharm\\_anti](/journal/antibiotics/special_issues/pharm_anti))

Prof. Dr. Luísa Peixe

**Website** (<https://www.requimte.pt/ucibio/people/luisa-maria-sobreira-vieira-peixe>)

**SciProfiles** (<https://sciprofiles.com/profile/948251>)

UCIBIO-REQUIMTE, Microbiology, Faculty of Pharmacy, University of Porto, Porto, Portugal

**Interests:** elucidation of bacterial resistance/tolerance mechanisms to antimicrobials; transmission and evolution of antibiotic resistant bacteria in different ecological niches; biomarkers identification, design and production of quick, inexpensive tools for the diagnosis, treatment, and prevention of diseases; female urinary microbiota in health and disease; enhance the efficacy of industrial processes for the production of safe, sustainable and high quality food



Dr. Federica Pellati

**Website** (<http://personale.unimore.it/rubrica/dettaglio/fpellati>)

Department of Life Sciences, University of Modena and Reggio Emilia, Via Campi 103, 41125 Modena, Italy

**Interests:** medicinal plants; natural bioactive compounds; phytochemical analysis; natural products chemistry

**Special Issues, Collections and Topics in MDPI journals**

Topical Collection in **Molecules: Phenolic Compounds from Plants: Chemistry, Analysis and Biological Activity** ([/journal/molecules/special\\_issues/phenolic\\_plants](/journal/molecules/special_issues/phenolic_plants))

Special Issue in **Molecules: Repositioning Natural Products in Drug Discovery** ([/journal/molecules/special\\_issues/repositioning](/journal/molecules/special_issues/repositioning))

Prof. Dr. Angelina Pena

**Website** ([https://www.uc.pt/ffuc/mobilidade\\_internacional/estudantes/coordenadores\\_erasmus](https://www.uc.pt/ffuc/mobilidade_internacional/estudantes/coordenadores_erasmus))

Group of Health Surveillance, Center of Pharmaceutical Studies Faculty of Pharmacy, University of Coimbra, Health Sciences Campus, Azinhaga de Santa Comba, 3000-548 Coimbra, Portugal

**Interests:** antibiotic use (including on animals and in agriculture); new methods for assaying and evaluating antibiotics; observational studies; qualitative and quantitative research; food and environmental residues

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: The Environmental Footprint of Antibiotics** ([/journal/antibiotics/special\\_issues/footprint\\_antibiotics](/journal/antibiotics/special_issues/footprint_antibiotics))

Prof. Dr. Xuan-xian Peng

**Website** (<https://www.aiche.org/bio/xuan-xian-peng>)

Center for Proteomics and Metabolomics, State Key Laboratory of Bio-Control, School of Life Sciences, Sun Yat-sen University, University City, Guangzhou 510006, China

**Interests:** functional metabolomics for antibiotic resistance

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Antibiotic Resistance: In the Perspective of Causes, Current Status, Mechanism and** [Back to Top](#) [Top](#)

**[Reverting \(/journal/antibiotics/special\\_issues/Perspective\\_Reverting\)](https://www.mdpi.com/journal/antibiotics/special_issues/Perspective_Reverting)****Dr. Tenke Péter****Website** (<https://bhc.hu/orvosaink/dr-tenke-peter/>)([toggle desktop layout cookie](#))

Department of Urology, Institute Jahn Ferenc South Pest Teaching hospital, Budapest, Hungary

**Interests:** biofilm; UTI; foreign body; catheter associated infection**Dr. Sacha Pidot****Website** (<https://findanexpert.unimelb.edu.au/profile/252854-sacha-pidot>)**SciProfiles** (<https://sciprofiles.com/profile/920917>)

Department of Microbiology and Immunology at The Doherty Institute, University of Melbourne, Melbourne, Australia

**Interests:** natural products; secondary metabolites; antibiotic discovery; genomics; antibiotic biosynthesis**Prof. Daniel S. Pilch****Website** (<https://molbiosci.rutgers.edu/faculty-research/faculty/faculty-detail/86-o-p/303-pilch-daniel>)

Department of Pharmacology, Rutgers Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635, USA

**Interests:** antibacterial drug design and development; antibacterial drug resistance; bacterial cell division; prodrugs; fluorescence and electron microscopy; calorimetry**Dr. Alessandro Pini****Website** (<https://www.dbm.unisi.it/it/dipartimento/personale/docenti/pini-alessandro>)

Department of Medical Biotechnology, University of Siena, Siena, Italy

**Interests:** antimicrobial peptides**Dr. Kristjan Plaetzer****Website** (<https://uni-salzburg.at/pdi>)

Laboratory of Photodynamic Inactivation of Microorganisms, Department of Biosciences, University of Salzburg, Salzburg, Austria

**Interests:** antimicrobial photodynamic therapy; cold plasma; plant pathogens; food safety**Special Issues, Collections and Topics in MDPI journals**Special Issue in **[Antibiotics: New and Innovative Applications of Antimicrobial Photodynamic Therapy \(/journal/antibiotics/special\\_issues/photodynamic\\_therapy\)](https://www.mdpi.com/journal/antibiotics/special_issues/photodynamic_therapy)**Special Issue in **[Antibiotics: New and Innovative Applications of Antimicrobial Photodynamic Therapy, 2nd Edition \(/journal/antibiotics/special\\_issues/photodynamic\\_therapyII\)](https://www.mdpi.com/journal/antibiotics/special_issues/photodynamic_therapyII)****Dr. Patrick Plesiat****Website** (<https://chrono-environnement.univ-fcomte.fr/spip.php?page=perso&nom=PLESIAT&prenom=Patrick&lang=fr>)

Laboratoire de Bactériologie, Université de Bourgogne Franche-Comté, Besançon, France

**Interests:** antibiotics; resistance; mechanisms; epidemiology; *Pseudomonas aeruginosa*; *Acinetobacter baumannii*; efflux pumps; beta-lactamases; genomics**Dr. Spyros Pournaras****Website** (<https://www.scopus.com/authid/detail.uri?authorId=18040727000>)**SciProfiles** (<https://sciprofiles.com/profile/1562617>)

Laboratory of Clinical Microbiology, Attikon University Hospital Medical School, National and Kapodistrian University of Athens, Athens, Greece

**Interests:** antibiotic resistance; carbapenems; carbapenemases; hospital infections; *Acinetobacter*; *Klebsiella*; molecular epidemiology; infection control; antibiotic stewardship[Back to Top](#)

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: The Genetic Differences among Colistin-Resistant *Enterobacterales*, *Acinetobacter* spp. and *Pseudomonas aeruginosa*** ([/journal/antibiotics/special\\_issues/Gene\\_Resistance](https://www.mdpi.com/journal/antibiotics/special_issues/Gene_Resistance))

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**Prof. Dr. Anna Psaroulaki**

**Website** (<http://www.english.med.uoc.gr/?q=the-school/faculty>) **SciProfiles** (<https://sciprofiles.com/profile/378237>)

Department of Microbiology/Zoonoses, School of Medicine, University of Crete, Heraklion, Crete, Greece

**Interests:** microbial pathogenesis; antibiotics; antimicrobial resistance; epidemiology of infectious diseases; microbiology and eco-epidemiology of zoonotic pathogens; food/water-borne pathogens; Public Health

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **International Journal of Environmental Research and Public Health: Epidemiology, Prevention and Control of Legionellosis: New Trends and Perspectives** ([/journal/ijerph/special\\_issues/Legionellosis](https://www.mdpi.com/journal/ijerph/special_issues/Legionellosis))

**Prof. Dr. Khondaker Miraz Rahman**

**Website** (<https://www.kcl.ac.uk/people/miraz-rahman>) **SciProfiles** (<https://sciprofiles.com/profile/540385>)

School of Cancer and Pharmaceutical Science, King's College London, London, UK

**Interests:** antimicrobial resistance research; development of new chemical tools; antibacterial drug discovery; antifungal drug discovery; efflux pumps

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Molecules: Current Developments in Antibody Drug Conjugates as Cancer Therapeutics** ([/journal/molecules/special\\_issues/ADC\\_Cancer](https://www.mdpi.com/journal/molecules/special_issues/ADC_Cancer))

**Prof. Dr. Paola Rappelli**

**Website** ([https://www.researchgate.net/profile/Paola\\_Rappelli](https://www.researchgate.net/profile/Paola_Rappelli))

Department of Biomedical Sciences, University of Sassari, Sassari, Italy

**Interests:** vaginal infections; vaginal dysbiosis; protozoan pathogenesis; antiprotozoan therapy; natural antimicrobials; essential oils; *Trichomonas vaginalis*; *Mycoplasma hominis*

**Prof. Dr. Ted W. Reid**

**Website** (<https://www.ocularservices.com/member/ted-w-reid-phd>) **SciProfiles** (<https://sciprofiles.com/profile/76359>)

Departments of Ophthalmology and Visual Science Immunology and Molecular Microbiology Chemistry and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX 79430, USA

**Interests:** neuropeptides; cell growth; wound healing processes

**Dr. Elda Righi**

**Website** (<https://www.ddsp.univr.it/?ent=persona&id=53284>)

Infectious Diseases, Department of Diagnostics and Public Health, University of Verona, Verona, Italy

**Interests:** infectious disease

**Prof. Dr. Menico Rizzi**

**Website** (<https://upobook.uniupo.it/menico.rizzi>) **SciProfiles** (<https://sciprofiles.com/profile/354515>)

Department of Pharmaceutical Sciences, University of Eastern Piedmont, Novara, Italy

**Interests:** *M. tuberculosis*; malaria; NAD metabolism; biochemistry; structural biology

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Pathogens: Mycobacterium tuberculosis Pathogenesis, Infection Prevention and Treatment** ([/journal/pathogens/special\\_issues/Mycobacterium\\_tuberculosis](https://www.mdpi.com/journal/pathogens/special_issues/Mycobacterium_tuberculosis))

**Dr. Marilyn C. Roberts**

**Website** (<https://faculty.washington.edu/marilynr/>) **SciProfiles** (<https://sciprofiles.com/profile/1244396>)

Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, USA

**Interests:** macrolide resistant; tetracycline resistant; AMR; MRSA; MSSA

**Prof. Dr. Ignasi Roca**

**Website** (<https://www.isglobal.org/en/our-team/-/profiles/2700?refererPlid=11404&controlPanelCategory=content>)

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**SciProfiles** (<https://sciprofiles.com/profile/1192559>)

Instituto de Salud Global de Barcelona, Barcelona, Spain

**Interests:** antibiotic resistance; carbapenems; beta-lactamases; MALDI-TOF MS; gram negative bacteria; Acinetobacter; epidemiology; whole genome sequencing

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**Prof. Dr. David Rodríguez-Lázaro**

**Website** (<https://www.ubu.es/microbiologia-una-salud-ohm>) **SciProfiles** (<https://sciprofiles.com/profile/929065>)

Microbiology Division, Department of Biotechnology and Food Science, Faculty of Sciences, University of Burgos, Burgos, Spain

**Interests:** food safety; food microbiology; one health; veterinary microbiology; antimicrobial resistance

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Microorganisms: Hepatitis E Virus, an Emergent Foodborne Pathogen? Public Health Implications*** ([/journal/microorganisms/special\\_issues/hevirus](/journal/microorganisms/special_issues/hevirus))

Special Issue in ***Foods: Innovative Techniques for Detecting and Preventing Foodborne Pathogens in Food Processing*** ([/journal/foods/special\\_issues/Innovative\\_Techniques\\_Detecting\\_Preventing\\_Foodborne\\_Pathogens\\_Food\\_Processing](/journal/foods/special_issues/Innovative_Techniques_Detecting_Preventing_Foodborne_Pathogens_Food_Processing))

Special Issue in ***International Journal of Environmental Research and Public Health: Food Microbiology: The Past and the New Challenges*** ([/journal/ijerph/special\\_issues/food\\_microbiology\\_challenges](/journal/ijerph/special_issues/food_microbiology_challenges))

Special Issue in ***Antibiotics: Recent Advances in Antibiotic and Antibiotic Resistance Research in Food*** ([/journal/antibiotics/special\\_issues/antibiotic\\_food](/journal/antibiotics/special_issues/antibiotic_food))

Special Issue in ***International Journal of Environmental Research and Public Health: Exclusive Papers Collection of Editorial Board Members in Section Environmental Microbiology*** ([/journal/ijerph/special\\_issues/Paper\\_Collection\\_EBM\\_EM](/journal/ijerph/special_issues/Paper_Collection_EBM_EM))

**Dr. Alexandro Rodríguez-Rojas**

**Website** ([https://www.researchgate.net/profile/Alexandro\\_Rodriguez-Rojas](https://www.researchgate.net/profile/Alexandro_Rodriguez-Rojas))

**SciProfiles** (<https://sciprofiles.com/profile/46130>)

Evolutionary Biology, Institute of Biology, Freie Universität Berlin, Berlin, Germany

**Interests:** microbial genetics; microbial evolution; bacteriophages; antimicrobial; antibiotics; antimicrobial resistance; bacterial stress; bacterial stress response; microbial ecology; methods in microbiology

**Prof. Dr. Jens Rolff**

**Website** ([http://www.bcp.fu-berlin.de/en/biologie/arbeitsgruppen/zoologie/ag\\_rolff/people/rolff/index.html](http://www.bcp.fu-berlin.de/en/biologie/arbeitsgruppen/zoologie/ag_rolff/people/rolff/index.html))

Institute of Biology, Freie Universitat Berlin, Berlin, Germany

**Interests:** antimicrobial peptides; resistance evolution; experimental evolution; drug interactions

**Prof. Dr. Carlo L. Romanò**

**Website** (<https://www.gsdhealthcare.ae/?teacher=prof-carlo-l-romano>)

**SciProfiles** (<https://sciprofiles.com/profile/675626>)

Studio Medico Cecca-Romanò, Milan, Italy

**Interests:** antibacterial; bone defects

**Prof. Dr. Pascale Romby**

**Website** (<http://www-ibmc.u-strasbg.fr/spip-arn/spip.php?rubrique152>)

Department of Molecular Biology, University of Strasbourg, Strasbourg, France

**Interests:** bacterial stress responses and virulence; molecular mechanism of bacterial protein synthesis; translational control

**Prof. Dr. Floyd Eric Romesberg**

**Website** (<https://www.scripps.edu/research/faculty/romesberg>)

Department of Chemistry, The Scripps Research Institute, CB262R, 10550 N. Torrey Pines Road, La Jolla, CA 92037, USA

**Interests:** mechanisms of antibiotic resistance: antibiotic mechanisms of action; new classes of antibiotics

**Prof. Dr. Donald R. Ronning**

**Website** (<https://www.unmc.edu/pharmacy/faculty/pharmaceutical-sciences/ronning.html>)

**SciProfiles** (<https://sciprofiles.com/profile/1773796>)

Department of Pharmaceutical Sciences, College of Pharmacy, University of Nebraska Medical Center, Omaha, NE 68198, USA

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**Interests:** antibiotic mechanism of action; enzyme inhibition; protein structure/function; tuberculosis; Mycobacteria; inhibitor discovery

**Prof. Dr. Adriana E. Rosato**



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**Website** (<https://www.uth.edu/carmig/faculty-and-membership/profile?id=b475e1c1-1335-4928-bc2c-521aa489f778>)

**SciProfiles** (<https://sciprofiles.com/profile/1569364>)

Riverside University Health System-Medical Center, 26520 Cactus Avenue, Moreno Valley, CA 92555, USA

**Interests:** antibiotic resistance and host response; mechanisms and genetics of resistance; genomics and transcriptomics; staphylococci (MRSA); clinical and diagnostic microbiology

**Prof. Dr. Gian Maria Rossolini**

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) **Website**

(<https://biography.omicsonline.org/italy/university-of-firenze/gian-maria-rossolini-424140>)

Department of Experimental and Clinical Medicine, University of Firenze, and Microbiology and Virology Unit, Florence Careggi University Hospital, Firenze, Italy

**Interests:** antimicrobial agents; bacterial chemistry resistance; molecular epidemiology and bacterial resistance monitoring; microbiological diagnostics; microbial biotechnologies

**Prof. Dr. Michael J. Rybak**

**Website** (<https://cphs.wayne.edu/profile/aa1592>) **SciProfiles** (<https://sciprofiles.com/profile/1239719>)

Anti-Infective Research Laboratory, Department of Pharmacy Practice, Eugene Applebaum College of Pharmacy & Health Sciences, Wayne State University, Detroit, MI 48201, USA

**Interests:** antibiotic pharmacokinetics/pharmacodynamics; antibiotic resistance; bacteriophage; biofilm; infective endocarditis; bacteremia; MRSA; Enterococcus faecalis; faecium; vancomycin; daptomycin; antibiotic synergy

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Antibiotics: Combination Therapy for MRSA Infections** ([/journal/antibiotics/special\\_issues/therapy\\_MRSA](/journal/antibiotics/special_issues/therapy_MRSA))

**Prof. Dr. Helio Sader**

**Website** (<https://www.jmilabs.com/leaders/helio-sader/>)

JMI Laboratories, North Liberty, IA 52317, USA

**Interests:** antimicrobial resistance; hospital epidemiology; new drug development; antimicrobial resistance surveillance

**Dr. Michael Samarkos**

First Department of Medicine, School of Medicine, National and Kapodistrian University of Athens, Laiko General Hospital, Athens, Greece

**Interests:** antimicrobial stewardship; gram positive infections; vascular catheter infections; *C. difficile* infection

**Prof. Dr. Maurizio Sanguinetti**

**Website** (<https://www.policlinicogemelli.it/medici/prof-maurizio-sanguinetti/>)

**SciProfiles** (<https://sciprofiles.com/profile/2073103>)

Department of Laboratory Sciences and Infectious Diseases, Fondazione Policlinico Universitario "A. Gemelli", 00168 Rome, Italy

**Interests:** the development of molecular methods for rapid diagnosis of bacterial; Candida; Enterococcus; the characterization of the human microbiota in relationship to human diseases; mycobacterial and fungal infections to the elucidation of virulence and antimicrobial resistance traits in Cryptococcus

**Prof. Dr. Francesco Santini**

**Website** (<http://www.ctsnet.org/home/fsantini>)

Division of Cardiac Surgery, University of Genova Medical School, Largo Rosanna Benzi 10, 16132 Genova, Italy

**Interests:** Infective endocarditis; native valve endocarditis; prosthetic valve endocarditis; mechanical valve prosthesis; biological valve prosthesis; cardiac surgical procedures; heart valve diseases; valvular surgery; paravalvular abscess; cardiac device; prophylaxis; prevention

**Prof. Dr. Eva Sapi**

**Website** (<http://www.newhaven.edu/faculty-staff-profiles/eva-sapi.php/>)

**SciProfiles** (<https://sciprofiles.com/profile/519515>)

Department of Biology and Environment Science, University of New Haven, West Haven, CT 06516, USA

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**Interests:** Lyme disease; spirochetes; infection; biofilm; persists; antibiotic resistance; connection of cancer to bacterial infections

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Antibiotics Resistance of Borrelia](#)** ([/journal/antibiotics/special\\_issues](#))

**[Antibiotics Resistance Borrelia](#)**

Special Issue in **[Antibiotics: Pathogen–Host Interaction by Borrelia burgdorferi](#)** ([/journal/antibiotics/special\\_issues/path\\_host\\_borrelia](#))

**Dr. Massimo Sartelli**

**Website** (<https://infectionsinsurgery.org/massimo-sartelli/>)

Department of General and Emergency Surgery, Macerata Hospital, 62100 Macerata, Italy

**Interests:** surgical infections; intra-abdominal infections; healthcare-associated infections; sepsis

**Prof. Dr. Paul B. Savage**

**Website** (<https://www.chem.byu.edu/faculty/paul-b-savage/>)

Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT, USA

**Interests:** antimicrobial peptides; antibacterial activity, medical device coatings; immunostimulatory glycolipids; oligosaccharide vaccines

**Prof. Dr. Gerhard Schenk**

**Website** (<https://scmb.uq.edu.au/profile/234/gary-schenk>)

School of Chemistry and Molecular Biosciences, The University of Queensland, St. Lucia, QLD 4072, Australia

**Interests:** enzyme structure and function; enzyme mechanism; metalloenzymes; metallo-beta-lactamases; protein engineering; protein evolution; antibiotics degradation

**Dr. Igor Schepetkin**

**Website** (<https://scholar.google.com/citations?hl=en&user=YcxV0dkAAAAJ&cstart=20&pagesize=20>)

**SciProfiles** (<https://sciprofiles.com/profile/1428693>)

Department of Immunology & Infectious Diseases, Montana State University (MSU), Bozeman, MT, USA

**Interests:** drug discovery; high-throughput screening; GPCR; chemokines; kinases; inflammation & immunity; natural compounds



**Prof. Dr. Domenico Schillaci**

**Website** (<https://pure.unipa.it/en/persons/domenico-schillaci-4>) **SciProfiles** (<https://sciprofiles.com/profile/395002>)

Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Palermo, Italy

**Interests:** antimicrobial activity; antibiofilm activity; antimicrobial peptides; antivirulence drugs; antibiotic resistance

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: The Global Need for New Antimicrobial and Antibiofilm Agents](#)** ([/journal/antibiotics/special\\_issues/Global\\_Antimicrobials](#))

**Dr. Dominique Schneider**

**Website** (<https://www.timc.imag.fr/en/dominique-schneider>) **SciProfiles** (<https://sciprofiles.com/profile/1362537>)

Laboratoire TIMC-IMAG, French National Center for Scientific Research, Université Grenoble Alpes, Institute Jean Roget, Grenoble, France

**Interests:** experimental evolution; microbial genomics; microbial genetics; regulation of gene expression; microbiology

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: How Far Are We from Predicting the Evolution of Antibiotic Resistance?](#)** ([/journal/antibiotics/special\\_issues/Antibiotic\\_evolution](#))

**Prof. Dr. William R. Schwan**

**Website** (<https://www.uwlax.edu/profile/wschwan/>) **SciProfiles** (<https://sciprofiles.com/profile/128815>)

Department of Microbiology, University of Wisconsin-La Crosse, 1725 State St., La Crosse, WI 54601, USA

**Interests:** drug discovery; anti-staphylococcal drugs; bacterial pathogenesis; two-component systems; uropathogenic

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Escherichia coli

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Discover New Antibiotics 2016](#)** ([/journal/antibiotics/special\\_issues/new\\_antibiotics\\_2016](#))

Special Issue in **[Pharmaceuticals: Bacterial Drug Persisters: Basis, Regulatory Events, and Resistant Pathogenesis](#)** ([/journal/pharmaceuticals/special\\_issues/drug\\_persisters](#))

Special Issue in **[Toxins: Staphylococcus aureus Toxins](#)** ([/journal/toxins/special\\_issues/Staphylococcus\\_toxins](#))

Special Issue in **[Antibiotics: Novel Mechanisms of Action for Anti-bacterial Drugs](#)** ([/journal/antibiotics/special\\_issues/anti-bacterial\\_drugs](#))

**Dr. Masafumi Seki**

**Website** ([http://www.tohoku-mpu.ac.jp/medicine/lab/infection\\_control/](http://www.tohoku-mpu.ac.jp/medicine/lab/infection_control/))

Department of Infectious Diseases, Faculty of Medicine, Tohoku Medical and Pharmaceutical University Hospital, Miyagino-ku, Japan

**Interests:** influenza; infection control; antimicrobial stewardship; pneumonia; vaccine; antimicrobial resistance

**Prof. Dr. Stefano Serra**

**Website** (<http://www.icrm.cnr.it/serra.htm>) **SciProfiles** (<https://sciprofiles.com/profile/116680>)

Consiglio Nazionale delle Ricerche (C.N.R.), Istituto di Scienze e Tecnologie Chimiche (SCITEC), Milano, Italy

**Interests:** organic synthesis; stereoselective synthesis; development of new synthetic methods; biotransformations and use of enzymes in organic synthesis; biogeneration of flavours and fragrances; natural products; synthesis and chemical characterization of APIs; antibiotics and biological active compounds

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Catalysts: Enzyme-Mediated Stereoselective Synthesis](#)** ([/journal/catalysts/special\\_issues/stereoselective\\_synthesis](#))

Special Issue in **[Molecules: Enzymes, Biocatalysis and Chemical Biology](#)** ([/journal/molecules/special\\_issues/Enzymes\\_Biocatalysis\\_Chemical\\_Biology](#))

Special Issue in **[Catalysts: Enzyme-Mediated Stereoselective Synthesis II](#)** ([/journal/catalysts/special\\_issues/Enzyme\\_Stereoselective\\_Synthesis](#))

**Prof. Dr. Yechiel Shai**

**Website** ([https://www.weizmann.ac.il/Biomolecular\\_Sciences/Shai/yechiel-shai-lab-studying-protein-protein-and-protein-membrane-interactions-health-and-disease](https://www.weizmann.ac.il/Biomolecular_Sciences/Shai/yechiel-shai-lab-studying-protein-protein-and-protein-membrane-interactions-health-and-disease))

Department of Biomolecular Sciences, The Weizmann Institute of Science, Rehovot 76100, Israel

**Interests:** protein-membrane interactions; protein-protein recognition; infectious diseases

**Dr. Shmuel Shoham**

**Website** (<https://www.hopkinsmedicine.org/profiles/results/directory/profile/4090026/shmuel-shoham>)

School of Medicine, Johns Hopkins University, Baltimore, MD, USA

**Interests:** antifungal therapy; fungal infection; transplant infections; cancer infections

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Journal of Fungi: Fungal Infections in Transplant Recipients](#)** ([/journal/jof/special\\_issues/fungal\\_infection](#))



**Prof. Dr. Carmen Sieiro**

**Website** (<http://bioloxia.uvigo.es/en/docencia/profesorado/carmen-sieiro-vazquez/>)

**SciProfiles** (<https://sciprofiles.com/profile/63816>)

Department of Functional Biology and Health Sciences, Microbiology Unit, University of Vigo, Lagoas-Marcosende, 36310 Vigo, Spain

**Interests:** microbiology; microbial biotechnology; food microbiology; recombinant microorganisms; microbial enzymes; microbial bioactive compounds; antimicrobials; biopreservatives; biocontrol; bacteriophages; probiotics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Phage Therapy, Lysin Therapy, and Antibiotics, a Trio Due to Come](#)** ([/journal/antibiotics/special\\_issues/therapy\\_antibiotics](#))

**Prof. Dr. Bernd W. Sigusch**

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**Website** (<https://www.uniklinikum-jena.de/zzmk/Kons.html>) **SciProfiles** (<https://sciprofiles.com/profile/984912>)

Department of Conservative Dentistry and Periodontology, University Hospital Jena, Thuringia, Germany

**Interests:** antimicrobial Photodynamic Therapy (aPDT), antimicrobial surface functionalization, biocompatibility, dental materials, antimicrobial agents, biofilm, Periodontitis, Endodontics

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**Dr. Sanna Maria Sillankorva**

**Website** (<https://ntgii.inl.int/sanna-sillankorva>) **SciProfiles** (<https://sciprofiles.com/profile/914552>)

INL - International Iberian Nanotechnology Laboratory, 4715-330 Braga, Portugal

**Interests:** bacteriophages; biofilms; Pseudomonas aeruginosa; chronic wounds; antibiotic alternatives

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Pharmaceutics: Biofilm Busting Strategies for Eradicating Infections*** ([/journal/pharmaceutics/special\\_issues/Biofilm\\_Infection](/journal/pharmaceutics/special_issues/Biofilm_Infection))



**Dr. Sónia Silva**

**Website** (<https://www.ceb.uminho.pt/People/Details/791c883a-0578-4448-bff8-b5005ec8d8f2>)

**SciProfiles** (<https://sciprofiles.com/profile/230793>)

CEB-Centre of Biological Engineering, University of Minho, 4710-057 Braga, Portugal

**Interests:** food microbiology; fungal human and animal infections; biofilms and molecules to control adhesion biofilm formation

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Microorganisms: Candida albicans Virulence Factors and Its Pathogenicity*** ([/journal/microorganisms/special\\_issues/Candida\\_albicans](/journal/microorganisms/special_issues/Candida_albicans))

Special Issue in ***Antibiotics: Towards Biofilm Eradication in the Context of Medical Applications: From Tailored Surface Engineering and Sustainable Biomaterials to Underlying Microbial Genetic*** ([/journal/antibiotics/special\\_issues/Biofilm\\_Biomaterials](/journal/antibiotics/special_issues/Biofilm_Biomaterials))

Topics: ***Novel Antimicrobial Agents: Discovery, Design and New Therapeutic Strategies*** ([/topics/anti\\_agent](/topics/anti_agent))

**Dr. Edith Sim**

**Website** (<https://www.pharm.ox.ac.uk/team/edith-sim>)

Department of Pharmacology, University of Oxford, Oxford OX1 2JD, UK

**Interests:** arylamine N-acetyltransferase; drug metabolism; tuberculosis; enzyme mechanism

**Prof. Dr. Roger Simm**

**Website** (<https://www.odont.uio.no/iob/personer/vit/rogersim/index.html>)

Institute of Oral Biology, University of Oslo, 0316 Oslo, Norway

**Interests:** biofilm; antimicrobial resistance; host-microbe interactions; microbe-microbe interactions; virulence; molecular microbiology; c-di-GMP; c-di-AMP

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Biofilm Infections — Time Bomb in Antibiotic Therapy*** ([/journal/antibiotics/special\\_issues/biofilm\\_antibiotics](/journal/antibiotics/special_issues/biofilm_antibiotics))



**Dr. Andrew C. Singer**

**Website** (<https://www.ceh.ac.uk/staff/andrew-singer>) **SciProfiles** (<https://sciprofiles.com/profile/730141>)

Centre for Ecology and Hydrology, Wallingford, UK

**Interests:** pollution, antibiotic resistance, environmental AMR, wastewater, freshwater, microbiome, policy



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**Prof. Dr. Maria Stefania Sinicropi**

**Website** ([https://www.unical.it/portale/strutture/dipartimenti\\_240/dfssn/areastudenti/avvisi\\_docenti/sinicropi/](https://www.unical.it/portale/strutture/dipartimenti_240/dfssn/areastudenti/avvisi_docenti/sinicropi/))

Department of Pharmacy, Health and Nutritional Sciences, University of Calabria, Arcavacata, Italy

**Interests:** the study of new molecules as anticancer drugs; the design, synthesis and biological evaluation of compounds of pharmaceutical interest; the study and biological evaluation of nutraceuticals

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Journal of Functional Biomaterials: Functional Materials for Healthcare*** ([/journal/jfb/special\\_issues/functional\\_materials\\_healthcare](/journal/jfb/special_issues/functional_materials_healthcare))

Special Issue in ***Applied Sciences: The Design, Synthesis, and Biological Evaluation of Compounds with Medicinal Value*** ([/journal/applsci/special\\_issues/compound\\_medical\\_value](/journal/applsci/special_issues/compound_medical_value))

Special Issue in ***Applied Sciences: Synthesis and Application of Heterocyclic Compounds*** ([/journal/applsci/special\\_issues/application\\_heterocyclic\\_compounds](/journal/applsci/special_issues/application_heterocyclic_compounds))

Special Issue in ***Applied Sciences: Heavy Metal Toxicity: Environmental and Human Health Risk Assessment*** ([/journal/applsci/special\\_issues/heavy\\_metal\\_toxicity](/journal/applsci/special_issues/heavy_metal_toxicity))

Special Issue in ***Antibiotics: What's New: Natural and Synthetic Antibacterials and/or Agents with Multiple Activities?*** ([/journal/antibiotics/special\\_issues/multiple\\_activities](/journal/antibiotics/special_issues/multiple_activities))

Topics: ***Compounds with Medicinal Value*** ([/topics/Compounds\\_Medicinal\\_Value](/topics/Compounds_Medicinal_Value))

**Prof. Dr. Andrzej Krzysztof Siwicki**

**Website** (<https://recenzenci.opi.org.pl/sssr-web/site/people-details?personId=faf3ee15ad6eb2bb&lang=en>)

Department of Microbiology and Clinical Immunology, Faculty of Veterinary Medicine, University of Warmia and Mazury in Olsztyn, Oczapowskiego 13, 10-719 Olsztyn, Poland

**Interests:** immunology; microbiology; diseases of fishes

**Dr. Barbara Skerlavaj**

**SciProfiles** (<https://sciprofiles.com/profile/967902>)

Department of Medicine, University of Udine, Udine, Italy

**Interests:** antimicrobial peptides; antibacterial activity; peptide-membrane interactions; structure-activity relationship; peptide immobilization ; antifungal activity; Staphylococcus spp.

**Dr. Norbert Solymosi**

**Website** (<https://univet.hu/en/about/staff/solymosi-norbert/>) **SciProfiles** (<https://sciprofiles.com/profile/1374117>)

Centre for Bioinformatics, University of Veterinary Medicine Budapest, Budapest, Hungary

**Interests:** genetic background of antimicrobial resistance; genomics; epidemiology

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Genetic Background of Antimicrobial Resistance*** ([/journal/antibiotics/special\\_issues/genetic\\_resistance](/journal/antibiotics/special_issues/genetic_resistance))

**Dr. Maria Luisa Sorlí Redó**

**Website** (<https://orcid.org/0000-0001-9562-514X>)

Department of Infectious Diseases, Hospital del Mar, Institut Mar d'Investigacions Mediques, 08003 Barcelona, Spain

**Interests:** antibiotics; PK/PD; antimicrobials

**Dr. Sara M. Soto**

**Website** (<https://ub.academia.edu/SaraSoto>) **SciProfiles** (<https://sciprofiles.com/profile/464615>)

Hospital Clínic-Universitat de Barcelona, Barcelona, Spain

**Interests:** biofilms; new antibacterial agents; antimicrobial resistance

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Marine Drugs: Fighting Antimicrobial Resistance with Marine Antibacterial Compounds*** ([/journal/marinedrugs/special\\_issues/heterocyclic\\_antibacterial](/journal/marinedrugs/special_issues/heterocyclic_antibacterial))

Special Issue in ***Antibiotics: A Themed Issue in Honor of Professor Jordi Vila—Outstanding Contributions in the Fields of Antimicrobial Resistance*** ([/journal/antibiotics/special\\_issues/honory\\_SI](/journal/antibiotics/special_issues/honory_SI))

**Dr. Owen B. Spiller**

**Website** (<https://www.cardiff.ac.uk/people/view/126738-spiller-owen>)

**SciProfiles** (<https://sciprofiles.com/profile/1064495>)

Department of Medical Microbiology, School of Medicine, Cardiff University, Cardiff, UK

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Interests: Ureaplasma

[Special Issues, Collections and Topics in MDPI journals](#)

Special Issue in [Antibiotics: One Health in Mycoplasmas: Antimicrobial Susceptibility and Resistance in Mycoplasmas Infecting Humans, Animals, Plants and Insects](#) ([/journal/antibiotics/special\\_issues/Mycoplasmas\\_infecting](#))



**Prof. Dr. Marc Stadler**

[Website \(https://www.helmholtz-hzi.de/en/research/research\\_topics/anti\\_infectives/microbial\\_drugs/marc\\_stadler/\)](https://www.helmholtz-hzi.de/en/research/research_topics/anti_infectives/microbial_drugs/marc_stadler/)

[SciProfiles \(https://sciprofiles.com/profile/270014\)](https://sciprofiles.com/profile/270014)

Department of Microbial Drugs, Helmholtz Centre for Infection Research (HZI), Inhoffenstrasse 7, 38124 Braunschweig, Germany

Interests: anti-infective drugs; mycology; microbiology; natural product chemistry; biotechnology

[Special Issues, Collections and Topics in MDPI journals](#)

Special Issue in [Biomolecules: Biology, Biotechnology and Bioprospecting of Microbial Biomolecules](#) ([/journal/biomolecules/special\\_issues/microbial\\_biomolecules](#))



**Dr. Ludger Standker**

[Website \(https://susy.mdpi.com/special\\_issue/process/878619\)](https://susy.mdpi.com/special_issue/process/878619) [SciProfiles \(https://sciprofiles.com/profile/1237147\)](https://sciprofiles.com/profile/1237147)

Faculty of Medicine, Ulm University, Ulm, Germany

Interests: bioactive peptides; synthesis; anti-infectives

[Special Issues, Collections and Topics in MDPI journals](#)

Special Issue in [Antibiotics: Antimicrobial Peptides and How to Find Them](#) ([/journal/antibiotics/special\\_issues/Antimicro\\_Peptide](#))



**Prof. Dr. Fiona Stapleton**

[Website \(https://research.unsw.edu.au/people/scientia-professor-fiona-jane-stapleton\)](https://research.unsw.edu.au/people/scientia-professor-fiona-jane-stapleton)

School of Optometry and Vision Science, University of New South Wales, Sydney, NSW, Australia

Interests: contact lenses; ocular surface; dry eye; ocular microbiology; corneal infection

[Special Issues, Collections and Topics in MDPI journals](#)

Special Issue in [Antibiotics: Ocular Surface Infection and Antimicrobials](#) ([/journal/antibiotics/special\\_issues/Ocular\\_Antimicrobials](#))

Special Issue in [Pathogens: Advances in Ocular Surface Infections](#) ([/journal/pathogens/special\\_issues/ocular\\_surface\\_infections](#))



**Prof. Dr. Constantinos Stathopoulos**

[Website \(http://biochemistry.med.upatras.gr/lang\\_en/laboratory/viewCV/2\)](http://biochemistry.med.upatras.gr/lang_en/laboratory/viewCV/2)

[SciProfiles \(https://sciprofiles.com/profile/13244\)](https://sciprofiles.com/profile/13244)

Department of Biochemistry, School of Medicine, University of Patras, 26504 Patras, Greece

Interests: protein synthesis inhibitors; antibiotic resistance; novel antibiotics; riboswitch inhibitors; RNA inhibitors

[Special Issues, Collections and Topics in MDPI journals](#)

Special Issue in [International Journal of Molecular Sciences: Non-Coding RNAs](#) ([/journal/ijms/special\\_issues/noncoding\\_RNAs](#))

Special Issue in [International Journal of Molecular Sciences: Non-Coding RNAs 2012](#) ([/journal/ijms/special\\_issues/rna\\_2012](#))

Special Issue in [International Journal of Molecular Sciences: Functions of Transfer RNAs](#) ([/journal/ijms/special\\_issues](#))



**[/functions-transfer-RNAs\)](#)**

Special Issue in **[International Journal of Molecular Sciences: Advanced Research in Ribosomal RNAs \(/journal/ijm/special\\_issues/ribosomal\\_rnas\)](#)**

Special Issue in **[International Journal of Molecular Sciences: Regulation by Non-coding RNAs 2022 \(/journal/ijms/special\\_issues/ncRNA\\_2022\)](#)**

**Dr. Todd Robert Steck**

**Website** (<https://biology.uncc.edu/directory/todd-r-steck-phd>)

Department of Biological Sciences, University of North Carolina at Charlotte, University City Blvd, Charlotte, NC, USA

**Interests:** antibiotic collateral-sensitivity; microbiome changes in cystic fibrosis

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Antibiotic Collateral-sensitivity \(/journal/antibiotics/special\\_issues/anti\\_sens\)](#)**

**Dr. Lorenzo Stella**

**Website** (<http://stc.uniroma2.it/en/people/academic-staff/associate-professors/name/lorenzo-stella/>)

Department of Chemical Science and Technologies, University of Rome Tor Vergata, 00133 Rome, Italy

**Interests:** antimicrobial peptides

**Prof. Dr. Meike Stiesch**

**Website** (<https://www.dgpro.de/mitglieder/1983>)

1. Department of Prosthetic Dentistry and Biomedical Material Science, Hannover Medical School, Carl-Neuberg-Straße 1, 30625 Hanover, Germany

2. Lower Saxony Centre for Biomedical Engineering, Implant Research and Development (NIFE), Stadtfelddamm 34, 30625 Hanover, Germany

**Interests:** oral biofilm

**Prof. Dr. Suzana K. Straus**

**Website** (<http://www.chem.ubc.ca/suzana-straus>) **SciProfiles** (<https://sciprofiles.com/profile/363755>)

Department of Chemistry, University of British Columbia, Vancouver, BC V6T 1Z1, Canada

**Interests:** antimicrobial peptides; viral membrane proteins; biophysical chemistry; NMR; structure-function

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Biomolecules: Antimicrobial Peptides: Development, Conjugation, and Beyond \(/journal/biomolecules/special\\_issues/Development\\_Conjugation\\_Beyond\)](#)**

**Prof. Dr. Gary A. Strobel**

**Website** (<https://mus.edu/board/meetings/Archives/ITEM128-2001-R0905.htm>)

Department of Plant Sciences, Montana State University, Bozeman, MT 59717, USA

**Interests:** all aspects of endophytic fungi especially their secondary products

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Journal of Fungi: Fungal Endophytes in Plants \(/journal/jof/special\\_issues/fungal\\_endophytes\)](#)**

Special Issue in **[Antibiotics: Fungal Secondary Metabolites \(/journal/antibiotics/special\\_issues/Fungi\\_Secondary\\_Metabolites\)](#)**

Special Issue in **[Antibiotics: Top 10 of Antibiotics Travel Awards 2019 \(/journal/antibiotics/special\\_issues/Antibiotics\\_Awards\\_2019\)](#)**

Special Issue in **[Antibiotics: Novel Fungal Metabolites with Antimicrobial Activities \(/journal/antibiotics/special\\_issues/fungi\\_FP\)](#)**

**Dr. Pilar García Suárez**

**Website** (<https://www.csic.es/es/investigaci%C3%B3n/investigadoresmaria-pilar-garcia-suarez>)

**SciProfiles** (<https://sciprofiles.com/profile/359161>)

Instituto de Productos Lácteos de Asturias (IPLA-CSIC), 33300 Villaviciosa, Asturias, Spain

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**Interests:** bacteriophages; endolysins; phage therapy; biocontrol; Staphylococcus aureus; biofilms

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Bacteriophages: Alternatives to Antibiotics and Beyond \(/journal/antibiotics/special\\_issues/bacteriophages\)](#)** (/toggle\_desktop\_layout\_cookie)

Special Issue in **[Antibiotics: Benefits of Bacteriophages to Combat Antibiotic-Resistant Bacteria \(/journal/antibiotics/special\\_issues/phage\\_anti\)](#)**

**Prof. Dr. Mitsushige Sugimoto**

**Website** (<https://hospinfo.tokyo-med.ac.jp/shinryo/naishi/staff.html>)

Department of Gastroenterological Endoscopy, Tokyo Medical University Hospital, Nishi-Shinjuku, Japan

**Interests:** Helicobacter pylori; eradication therapy; gut microbiota

**Dr. Jian Sun**

**Website** (<https://vet.scau.edu.cn/veten/2020/0505/c8908a226728/page.htm>)

**SciProfiles** (<https://sciprofiles.com/profile/1151043>)

National Risk Assessment Laboratory for Antimicrobial, Resistance of Animal Original Bacteria, South China Agricultural University, Guangzhou 510642, China

**Interests:** surveillance of antibiotics resistance of zoonotic bacteria; antibiotics resistance and transmission mechanism ; antibiotics resistance prevention and control technology

**Dr. Dóra Szabó**

**Website** (<https://semmelweis.hu/mikrobiologia/staff/>) **SciProfiles** (<https://sciprofiles.com/profile/1312432>)

Institute of Medical Microbiology, Faculty of Medicine, Semmelweis University, Budapest, Hungary

**Interests:** microbiology; antibiotics; microbiome; sequencing; fluoroquinolones; colistin; Klebsiella pneumoniae; animal models

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: The Effects of Antibiotics and Various Other Drugs on Gastrointestinal Microbiota: Roles in Health and Disease \(/journal/antibiotics/special\\_issues/antibiotic\\_microbiota\)](#)**

**Prof. Dr. Yoko Takahashi**

**Website1** (<https://www.kitasato-u.ac.jp/lisci/labo/MicrobialFunctions/#i2>) **Website2** (<https://www.kitasato-u.ac.jp/lisci/english/kitasato-LIS/ILS-Lab24en.html>)

Laboratory of Microbiology for Drug Discovery, Kitasato Institute for Life Science, Kitasato University, 5-9-1, Shirokane, Minato-ku, Tokyo 108-8641, Japan

**Interests:** applied microbiology; isolation and taxonomy of Actinomycetes; natural substances from microorganisms; development of isolation methods for unknown microorganisms

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Fungal Secondary Metabolites \(/journal/antibiotics/special\\_issues/Fungi\\_Secondary\\_Metabolites\)](#)**



**Prof. Dr. Gloria Taliani**

**SciProfiles** (<https://sciprofiles.com/profile/1669343>)

Department of Translational and precision medicine, University of Rome, Rome, Italy

**Interests:** viral hepatitis; pneumonia; antibiotic treatment

**Dr. Arjana Tambic Andrasevic**

Department of clinical microbiology, University Hospital for Infectious Diseases, Zagreb, Croatia

**Interests:** antibiotic resistance

**Dr. Carlo Tascini**

**Website** (<https://publons.com/researcher/2079143/carlo-tascini/>)

Head Infectious Diseases Clinic, Udine University Hospital, Udine, Italy

**Interests:** antibiotic for MDR gram negative; antibiotic for E. faecalis; antibiotic for endocarditis

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**Dr. Sara Tedeschi****Website** (<https://www.unibo.it/sitoweb/sara.tedeschi5/en>)

Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy

**Interests:** antimicrobial stewardship; bone and joint infections([toggle desktop layout cookie](#))**Prof. Dr. Gábor Ternák****Website** ([https://www.google.com.hk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjW8uzkudnvAhWJv5QKHa-xBkMQFjAAegQIBBAD&url=https%3A%2F%2Fwww.mighealth-unipecs.hu%2Fpromovax%2Fprojectmembers%2F93-prof-gabor-ternak&usg=AOvVaw14SSgue\\_pTO7IY4FTp9ThQ](https://www.google.com.hk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjW8uzkudnvAhWJv5QKHa-xBkMQFjAAegQIBBAD&url=https%3A%2F%2Fwww.mighealth-unipecs.hu%2Fpromovax%2Fprojectmembers%2F93-prof-gabor-ternak&usg=AOvVaw14SSgue_pTO7IY4FTp9ThQ))  
**SciProfiles** (<https://sciprofiles.com/profile/1249287>)

School of Medicine, Department of Migration Health, University of Pécs, Pécs, Hungary

**Interests:** infectious diseases; tropical diseases; antibiotics; antibiotic consumption; microbiome; microbiome and diseases; antibiotic-consumption related non-contagious diseases**Special Issues, Collections and Topics in MDPI journals**Special Issue in ***Antibiotics: The Possible Role of Antibiotic-Modified Microbiome in the Development and Proliferation of Non-Communicable Diseases*** ([/journal/antibiotics/special\\_issues/Anti\\_NonCom\\_Diseases](/journal/antibiotics/special_issues/Anti_NonCom_Diseases))**Dr. Shiping Tian****Website** (<http://klpr.ibcas.ac.cn/en/news/370>) **SciProfiles** (<https://sciprofiles.com/profile/617383>)

Key Lab of Plant Resources, Chinese Academy of Sciences, Beijing 100081, China

**Interests:** fungal pathogenicity; molecular mechanism; mycotoxin; fruit resistance response**Dr. Mark Toleman****Website** (<https://www.cardiff.ac.uk/people/view/86747-toleman-mark>)**SciProfiles** (<https://sciprofiles.com/profile/1184709>)

School of Medicine, Cardiff University, Cardiff CF10 3AT, UK

**Interests:** antimicrobial resistance; Escherichia coli;  $\beta$ -lactamase**Special Issues, Collections and Topics in MDPI journals**Special Issue in ***Microorganisms: How Environmental Bacteria Transfer into Human Pathogens*** ([/journal/microorganisms/special\\_issues/environmental\\_human\\_pathogens](/journal/microorganisms/special_issues/environmental_human_pathogens))**Dr. Marta Toth****Website** (<https://chemistry.nd.edu/people/page/29/>)

Department of Chemistry &amp; Biochemistry, University of Notre Dame, Notre Dame, IN, USA

**Interests:** mechanism of resistance to beta-lactam antibiotics and inhibitors; Acinetobacter baumannii;  $\beta$ -lactamases ; penicillin binding proteins; enzyme kinetics; structural studies**Prof. Dr. Pierre-Louis Toutain****Website** (<https://www.rvc.ac.uk/about/our-people/pierre-louis-toutain#tab-research-content>)

Royal Veterinary College, University of London, London WC1E7HU, UK

**Interests:** PK/PD; Population pharmacokinetics; Veterinary medicine**Prof. Dr. Andrej Trampuz****Website** (<http://www.pro-implant.org>)

Consultant for Infectious Diseases, Center for Musculoskeletal Surgery, Charité - Universitätsmedizin Berlin, Berlin, Germany

**Interests:** implant associated infection; biofilm**Special Issues, Collections and Topics in MDPI journals**Special Issue in ***Diagnostics: Diagnosis and Management of Bone Infection*** ([/journal/diagnostics/special\\_issues/Bone\\_Infection\\_Diagnosis\\_Management](/journal/diagnostics/special_issues/Bone_Infection_Diagnosis_Management))**Prof. Dr. Enrico Maria Trecarichi**[Back to Top](#)

**Website (<https://dsmc.unicz.it/personale/docente/enricomariatrearichi>)**

Medical and Surgical Sciences, Infectious and Tropical Diseases Unit, University "Magna Graecia" - "Mater Domini" Teaching Hospital, Viale Europa (Località Germaneto), 88100 Catanzaro, Italy

**Interests:** antibiotic resistance; infections due to MDR bacteria; bacterial infections in patients with neurological emergencies

**Prof. Dr. Indi Trehan****Website ([https://pediatrics.wustl.edu/faculty/trehan\\_i](https://pediatrics.wustl.edu/faculty/trehan_i))**

Departments of Pediatrics and Global Health, University of Washington and Seattle Children's Hospital, Seattle, WA, USA

**Interests:** pediatrics, tropical diseases, malnutrition, global health, clinical trials

**Prof. Dr. Athanasios Tsakris****Website (<http://school.med.uoa.gr/to-tmima/ergastiria-kai-klinikes.html>)**

Department of Microbiology, Medical School University of Athens, Athens, Greece

**Interests:** antimicrobial resistance; mechanisms of resistance; infection control; antimicrobial stewardship; investigation of microbial outbreaks

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Antibiotics Research in Europe \(/journal/antibiotics/special\\_issues/Anti\\_Europe\)](/journal/antibiotics/special_issues/Anti_Europe)**

**Prof. Dr. Paul M. Tulkens****Website (<http://www.facm.ucl.ac.be/CV-PM-Tulkens.htm>) SciProfiles (<https://sciprofiles.com/profile/7293>)**

Pharmacologie cellulaire et moléculaire, Louvain Drug Research Institute, Université catholique de Louvain, Avenue Mounier 73 B1.73.05, 1200 Brussels, Belgium

**Interests:** Pathophysiology of lysosomes; Endocytosis and of the interactions of drugs and chemicals with membranes and subcellular organelles; Antibiotic toxicity (molecular, cellular and clinical aspects); Chemotherapy of intracellular infection; Antibiotic efflux pumps and transporters; Pharmacodynamics and pharmacokinetics of anti-infective drugs (in vitro models and clinical trials); Discovery and development of new antibiotics; Promotion of proper antibiotic usage (through guidelines and public actions); implementation of Clinical Pharmacy in Belgium

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: A Themed Issue in Honor of Professor Hartmut Derendorf — Outstanding Contributions in the Fields of Quantitative Clinical Pharmacology \(/journal/antibiotics/special\\_issues/honor\\_derendorf\)](/journal/antibiotics/special_issues/honor_derendorf)**

**Prof. Dr. Mario Tumbarello****Website (<https://www.policlinicogemelli.it/medici/prof-mario-tumbarello/>)****SciProfiles (<https://sciprofiles.com/profile/1134401>)**

Dipartimento Scienze di Laboratorio e Infettivologiche, Fondazione Policlinico Universitario A. Gemelli IRCCS - Università Cattolica del Sacro Cuore, Roma, Italy

**Interests:** hospital acquired infections; MDR infections; antimicrobial stewardship

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Infection Control and Antibiotic Use in Hospital \(/journal/antibiotics/special\\_issues/infection\\_hospital\)](/journal/antibiotics/special_issues/infection_hospital)**

**Prof. Dr. Raymond J. Turner****Website (<http://contacts.ucalgary.ca/info/bio/profiles/124-1223>) SciProfiles (<https://sciprofiles.com/profile/331878>)**

Department of Biological Sciences, University of Calgary, Calgary, AB T2N 1N4, Canada

**Interests:** metal based antimicrobials; resistance mechanisms; biofilms; antimicrobial properties; bioremediation; metal nanomaterials

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Silver-Based Antimicrobials \(/journal/antibiotics/special\\_issues/silver\\_antimicrobials\)](/journal/antibiotics/special_issues/silver_antimicrobials)**

Special Issue in **[Genes: Genomics of Bacterial Metal Resistance \(/journal/genes/special\\_issues/genomics\\_bacterial\\_metal\\_resistance\)](/journal/genes/special_issues/genomics_bacterial_metal_resistance)**

Special Issue in **[Antibiotics: Antibiotics Research in Canada \(/journal/antibiotics/special\\_issues/antibiotics\\_Canada\)](/journal/antibiotics/special_issues/antibiotics_Canada)**

**Dr. Sergei Vakulenko****Website (<https://mccourtneyhall.nd.edu/faculty/sergei-vakulenko/>) SciProfiles (<https://sciprofiles.com/profile/93335>)**

Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN 46556, USA

**Interests:** mechanisms of resistance to beta-lactam and aminoglycoside antibiotics, beta-lactamases, aminoglycoside-modifying enzymes, enzyme kinetics, structure-activity relationships.

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Mechanisms of Antibiotic Resistance \(/journal/antibiotics/special\\_issues/mechanisms-of-resistance\)](#)**



#### Dr. Sylvia Valdezate

**Website** ([https://www.researchgate.net/profile/Sylvia\\_Valdezate](https://www.researchgate.net/profile/Sylvia_Valdezate)) **SciProfiles** (<https://sciprofiles.com/profile/473472>)

Reference and Research Laboratory for Taxonomy, National Centre of Microbiology, Instituto de Salud Carlos III, 2 28220 Madrid, Spain

**Interests:** Bacteriology (actinomycetes, anaerobes, Brucella spp., non fermenters gram negative bacilli); molecular typing (PFGE, MLSA, MLVA); antimicrobials; resistance; virulence

#### Prof. Dr. Françoise Van Bambeke

**Website** (<http://www.facm.ucl.ac.be/CV-F-Van-Bambeke.htm>)

Pharmacologie cellulaire et moléculaire, Louvain Drug Research Institute, Université catholique de Louvain, Avenue Mounier 73 B1.73.05, 1200 Brussels, Belgium

**Interests:** new antibiotics; pharmacokinetics and pharmacodynamics; intracellular infection; efflux transporters

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Molecules: Advances in Medicinal Chemistry of Antibiotics \(/journal/molecules/special\\_issues/chemistry\\_of\\_antibiotics\)](#)**

Special Issue in **[Antibiotics: A Themed Issue in Honor of Professor Hartmut Derendorf —Outstanding Contributions in the Fields of Quantitative Clinical Pharmacology \(/journal/antibiotics/special\\_issues/honor\\_derendorf\)](#)**

#### Dr. Marianne van der Sande

**Website** (<https://research.itg.be/en/persons/marianne-van-der-sande>)

**SciProfiles** (<https://sciprofiles.com/profile/1371313>)

Department of Public Health, Institute of Tropical Medicine Antwerp, Antwerp, Belgium

**Interests:** antibiotic use; outbreaks; community; transmission; intervention; LMIC; epidemiology



#### Prof. Dr. Liset van Dijk

**Website** ([https://www.researchgate.net/profile/Liset\\_Van\\_Dijk](https://www.researchgate.net/profile/Liset_Van_Dijk)) **SciProfiles** (<https://sciprofiles.com/profile/1269177>)

1. Nivel, Netherlands Institute of Health Services Research, Utrecht, The Netherlands

2. Department of Pharmacotherapy, Epidemiology & Economics (PTEE), Groningen Research Institute of Pharmacy, Faculty of Mathematics and Natural Sciences, University of Groningen, Groningen, The Netherlands

**Interests:** rational prescribing and use; pharmacy practice research; primary care; adherence to medication

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in **[Antibiotics: Antibiotics Research in Europe \(/journal/antibiotics/special\\_issues/Anti\\_Europe\)](#)**

#### Prof. Dr. Francois Vandenesch

**Website** (<http://ciri.inserm.fr/en/>)

Centre International de Recherche en Infectiologie, INSERM U1111, CNRS UMR5308, University of Lyon, ENS Lyon, Domaine de la buire, rue G. Paradin, 69008 Lyon, France

**Interests:** Staphylococcus aureus; toxins; staphylococcal pathogenesis; MRSA

#### Dr. Mario Varcamonti

**Website** (<http://www.dipartimentodibiologia.unina.it/personale/mario-varcamonti/>)

Department of Biology, Università degli Studi di Napoli Federico II, Naples, Italy

**Interests:** antimicrobial resistance; multidrug resistance; anti-biofilm molecules; microbial physiology



Prof. Dr. Elena Maria Varoni

 [Website \(https://www.researchgate.net/profile/Elena\\_Varoni\)](https://www.researchgate.net/profile/Elena_Varoni) [SciProfiles \(https://sciprofiles.com/profile/112690\)](https://sciprofiles.com/profile/112690)

Department of Biomedical, Surgical and Dental Sciences, Università degli Studi di Milano, Milan, Italy

**Interests:** oral diseases; oral health; bioactive phytochemicals; biomaterials; nanomaterials; drug delivery systems 

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Biomedicines: Malignant and Potentially Malignant Disorders of the Oral Cavity: Updates from Pathogenesis to Therapy\*\*\*](#) (/journal/biomedicines/special\_issues/oral\_cavity)

Special Issue in [\*\*\*Antibiotics: Antimicrobial Plant Extracts and Phytochemicals\*\*\*](#) (/journal/antibiotics/special\_issues/Antimicrobial\_Extracts)

Special Issue in [\*\*\*Vaccines: Immunomodulatory Plants & Plant-Derived Immunomodulators\*\*\*](#) (/journal/vaccines/special\_issues/Pant\_immunomodulators)

Special Issue in [\*\*\*Antibiotics: Antimicrobial Agents in Oral Diseases: Prophylaxis and Therapy between New and Old Molecules\*\*\*](#) (/journal/antibiotics/special\_issues/antimicrobial\_agents\_oral)

Special Issue in [\*\*\*International Journal of Molecular Sciences: Flavonoids\*\*\*](#) (/journal/ijms/special\_issues/Flavo)

Special Issue in [\*\*\*Biomedicines: Mucocutaneous Manifestations of HIV after 40 Years from the First Case\*\*\*](#) (/journal/biomedicines/special\_issues/HIV\_Mucocutaneous)

Special Issue in [\*\*\*Antibiotics: Antimicrobial Plant Extracts and Phytochemicals, 2nd Volume\*\*\*](#) (/journal/antibiotics/special\_issues/anti\_plant\_2nd)



Dr. Akke Vellinga

[Website \(http://www.nuigalway.ie/our-research/people/medicine/akkevellinga/\)](http://www.nuigalway.ie/our-research/people/medicine/akkevellinga/)

School of Medicine, National University of Ireland, Galway, Ireland

**Interests:** epidemiology; AB prescribing by general practitioners, in secondary care and nursing homes; interventions to improve antibiotic prescribing; data analysis/statistics

Dr. Thierry Vernet

[Website \(http://www.ibs.fr/research/research-groups/pneumococcus-group-t-vernet/\)](http://www.ibs.fr/research/research-groups/pneumococcus-group-t-vernet/)

Institut de Biologie Structurale, CNRS (UMR 5075)/CEA/UGA, 71 avenue des Martyrs - CS10090, 38044 Grenoble, France

**Interests:** molecular biology; protein biochemistry; structural biology; Streptococcus pneumonia; resistance to beta-lactams; bacterial morphogenesis; bacterial cell wall biosynthesis; peptidoglycan; penicillin-binding proteins

Dr. Gabriella Verucchi

[Website \(https://www.unibo.it/sitoweb/gabriella.verucchi\)](https://www.unibo.it/sitoweb/gabriella.verucchi)

Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy

**Interests:** antibiotics

Prof. Dr. Annarita Vestri

[Website \(https://dspmi.uniroma1.it/node/5686\)](https://dspmi.uniroma1.it/node/5686) [SciProfiles \(https://sciprofiles.com/profile/1582961\)](https://sciprofiles.com/profile/1582961)

Dipartimento di Sanità Pubblica e Malattie Infettive, Sapienza Università di Roma, Rome, Italy

**Interests:** biostatistics; clinical epidemiology; observational studies; randomized clinical trial; diagnostic studies; statistical modeling

Prof. Dr. Tomás González Villa

[Website \(https://www.usc.gal/es/departamentos/micrparag/profesor.html?Num\\_Puesto=2093&Num\\_Persona=1942&ano=67\)](https://www.usc.gal/es/departamentos/micrparag/profesor.html?Num_Puesto=2093&Num_Persona=1942&ano=67) [SciProfiles \(https://sciprofiles.com/profile/771193\)](https://sciprofiles.com/profile/771193)

Department of Microbiology, Faculty of Pharmacy, University of Santiago de Compostela, 15706 Santiago de Compostela, Coruna, Spain

**Interests:** phage therapy; microbiology; microbial biotechnology; food microbiology; molecular microbiology; recombinant microorganisms; microbial bioactive compounds

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [\*\*\*Antibiotics: Phage Therapy, Lysin Therapy, and Antibiotics, a Trio Due to Come\*\*\*](#) (/journal/antibiotics/special\_issues/therapy\_antibiotics)

Special Issue in [\*\*\*International Journal of Molecular Sciences: Molecular Analysis of the Resistome in Food\*\*\*](#) (/journal

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[/ijms/special\\_issues/resistome\\_food](#))

Special Issue in [Antibiotics: Polyphenols for Friendly Handling of Microbial Control](#) ([/journal/antibiotics/special\\_issues/Polyphenols\\_Microbial](#))

Special Issue in [Antibiotics: Frontiers in Phage Therapy](#) ([/journal/antibiotics/special\\_issues/Frontiers\\_Phage\\_Therapy](#))



**Prof. Dr. Paolo Visca**

**Website** (<https://www.fibrosicisticaricerca.it/ricercatore/visca-paolo/>) **SciProfiles** (<https://sciprofiles.com/profile/82277>)

Department of Science, Università degli Studi Roma Tre, Rome, Italy

**Interests:** Acinetobacter; antivirulence; iron metabolism; iron transport; Pseudomonas; sideromycins; siderophores

**Dr. Luca Vitale**

**Website** (<https://www.isafom.cnr.it/index.php/it/chi-siamo/personale/13-personale/ricercatori/21-vitale-luca>)

National Research Council (CNR), Department of Biology, Agriculture and Food Sciences (DiSBA) Institute for Agricultural and Forestry Systems in the Mediterranean (ISAFoM), Portici (NA), Italy

**Interests:** soil-plant-microbe interactions; soil ecology; nitrogen cycling in agroecosystems, agroecology, nitrification and denitrification

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [Antibiotics: Antimicrobial Substances and Nitrogen Cycle in Agro-Ecosystems](#) ([/journal/antibiotics/special\\_issues/Agro-Ecosystems](#))



**Prof. Dr. Sara Vitalini**

**Website** ([https://www.researchgate.net/profile/Sara\\_Vitalini](https://www.researchgate.net/profile/Sara_Vitalini))

Department of Agricultural and Environmental Sciences, Università degli Studi di Milano, Milan, Italy

**Interests:** crop protection; plant diseases; bioactivity; phytochemistry; ethnopharmacology; natural products

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [Medicines: Biological Efficacy of Natural Products against Noncommunicable Diseases](#) ([/journal/medicines/special\\_issues/natural\\_products\\_noncommunicable\\_diseases](#))

Special Issue in [Applied Sciences: \(Nano\)bioagrochemicals](#) ([/journal/applsci/special\\_issues/Nano\\_bioagrochemicals](#))

Special Issue in [Antibiotics: Antimicrobial Plant Extracts and Phytochemicals](#) ([/journal/antibiotics/special\\_issues/Antimicrobial\\_Extracts](#))

Special Issue in [Vaccines: Immune Mechanisms in Plants](#) ([/journal/vaccines/special\\_issues/Immune\\_Plants](#))

Special Issue in [Molecules: Biological and Pharmacological Activity of Plant Natural Compounds](#) ([/journal/molecules/special\\_issues/Nat](#))

Special Issue in [Applied Sciences: Natural Products in Crop Protection, Post-harvest Disease Control and Food Contamination](#) ([/journal/applsci/special\\_issues/Natural\\_Products\\_Crop\\_Post-harvest\\_Food](#))

Special Issue in [Molecules: Biological and Pharmacological Activity of Plant Natural Compounds II](#) ([/journal/molecules/special\\_issues/Natural\\_Compounds\\_II](#))

Special Issue in [International Journal of Molecular Sciences: Flavonoids](#) ([/journal/ijms/special\\_issues/Flavo](#))

Special Issue in [Vaccines: Immune Mechanisms in Plants 2.0](#) ([/journal/vaccines/special\\_issues/plants\\_vaccines](#))

Special Issue in [Antibiotics: Antimicrobial Plant Extracts and Phytochemicals, 2nd Volume](#) ([/journal/antibiotics/special\\_issues/anti\\_plant\\_2nd](#))

Special Issue in [Molecules: Biological and Pharmacological Activity of Plant Natural Compounds III](#) ([/journal/molecules/special\\_issues/NP\\_III](#))

Topics: [Frontiers in Phytochemicals](#) ([/topics/Phytochemicals](#))

**Prof. Dr. Corrado De Vito**

**Website** (<https://dspmi.uniroma1.it/node/5682>)

Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy

**Interests:** antibiotic resistance; healthcare-associated infections; systematic reviews and meta-analysis

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**Prof. Dr. Vera Vlahović-Palčevski****Website** (<http://www.fzsri.uniri.hr/hr/fakultet/katedre/54-katedra-za-temeljne-medicinske-znanosti.html>)

1. Department of Clinical Pharmacology, Clinical Hospital center Rijeka, 51000 Rijeka, Croatia
2. Department of Pharmacology, Medical faculty, University of Rijeka, 51000 Rijeka, Croatia
3. Department for basic medical Sciences, Faculty of Health Studies, University of Rijeka, 51000 Rijeka, Croatia

**Interests:** antimicrobials and antimicrobial stewardship; pharmacoepidemiology; rational drug use; education**Dr. Dan Cristian Vodnar****Website** (<http://danvodnar.objectis.net>) **SciProfiles** (<https://sciprofiles.com/profile/87482>)

Department of Food Science , University of Agricultural Sciences and Veterinary Medicine , 400372 Cluj-Napoca, Romania

**Interests:** antimicrobial packaging; antimicrobial activity; edible films; biofilms; bioactive compounds**Special Issues, Collections and Topics in MDPI journals**Special Issue in ***Polymers: Polymeric Materials for Food Engineering*** ([/journal/polymers/special\\_issues/Food\\_Eng](/journal/polymers/special_issues/Food_Eng))Special Issue in ***Coatings: Antibacterial Coatings and Biofilm*** ([/journal/coatings/special\\_issues/antibacterial\\_coating](/journal/coatings/special_issues/antibacterial_coating))Special Issue in ***Polymers: Micro- and Nano-Scale Polymer Composites for Food Applications*** ([/journal/polymers/special\\_issues/polym\\_compos\\_food\\_app](/journal/polymers/special_issues/polym_compos_food_app))Special Issue in ***Microorganisms: Food Fermentations*** ([/journal/microorganisms/special\\_issues/Fermented\\_Food](/journal/microorganisms/special_issues/Fermented_Food))Topical Collection in ***Polymers: Bacterial Polymers*** ([/journal/polymers/special\\_issues/bact\\_polym](/journal/polymers/special_issues/bact_polym))Special Issue in ***Coatings: Innovations in Active Food Packaging during the Pandemic and into the 'New Normal'*** ([/journal/coatings/special\\_issues/innovation\\_active\\_food\\_packaging](/journal/coatings/special_issues/innovation_active_food_packaging))Special Issue in ***Catalysts: Current State-of-the-Art of Biocatalysts in the Food Sector*** ([/journal/catalysts/special\\_issues/biocatalysts\\_food](/journal/catalysts/special_issues/biocatalysts_food))**Prof. Dr. Alessandro Volonterio****Website** (<https://www.cmic.polimi.it/en/department/persona/personale-docente/volonterio-alessandro/>)**SciProfiles** (<https://sciprofiles.com/profile/460824>)

Chemistry, Material, and Chemical Engineering "Giulio Natta", Politecnico di Milano, Milan, Italy

**Interests:** health; molecular sciences; drug delivery; gene delivery; molecular transporters; Heterocyclic compounds; medicinal chemistry; multi-component reactions; organic synthesis; structure-property relationship; peptidomimetics**Dr. Nihal Engin Vrana**

Department: Unit 1121 Biomaterials and Tissue Engineering, Institute of Health and Medical Research (INSERM), 67085 Strasbourg, France

SPARTHA Medical, 67100 Strasbourg, France

**Interests:** Antimicrobial coatings; antibiotic substitutes; polymeric antimicrobial systems; nosocomial infections**Dr. Jun-ichi Wachino**

Department of Bacteriology, Nagoya University School of Medicine, Nagoya, Japan

**Interests:** antibiotic resistance; Enterobacterales; structure biology; drug discovery**Prof. Dr. Florian Wagenlehner****Website** (<https://facultyopinions.com/prime/thefaculty/member/1575488167233581>)

Department of Urology, Pediatric Urology and Andrology, Justus-Liebig-University, Giessen, Germany

**Interests:** urinary tract infections; diagnosis; novel antibiotics; clinical studies**Special Issues, Collections and Topics in MDPI journals**Special Issue in ***Antibiotics: Diagnostic Concepts of Urinary Tract Infection and Antimicrobial Treatment*** ([/journal/antibiotics/special\\_issues/urinary\\_tract\\_antibiotics](/journal/antibiotics/special_issues/urinary_tract_antibiotics))**Prof. Dr. Gerd Wagner**[Back to Top](#)

**Website** ([https://pure.qub.ac.uk/portal/en/persons/gerd-wagner\(15ec0ad0-0369-4c89-a256-af3f8567b95a\).html](https://pure.qub.ac.uk/portal/en/persons/gerd-wagner(15ec0ad0-0369-4c89-a256-af3f8567b95a).html))

**SciProfiles** (<https://sciprofiles.com/profile/313245>)

School of Pharmacy, Queen's University Belfast, Belfast, UK

**Interests:** medicinal chemistry; chemical biology; carbohydrate and nucleotide chemistry; enzyme inhibitors; antimicrobial resistance; bioassays; glycobiology; drug discovery

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Chemical Tools for Antibiotics Research*** ([/journal/antibiotics/special\\_issues/Chemical\\_Tools\\_Antibiotics](/journal/antibiotics/special_issues/Chemical_Tools_Antibiotics))

Special Issue in ***Molecules: From Cell Signalling to Anticancer Drug Discovery: A Theme Issue in Honor of Professor Barry Potter*** ([/journal/molecules/special\\_issues/theme\\_barry\\_potter](/journal/molecules/special_issues/theme_barry_potter))

**Prof. Dr. Laurence J Walsh**

**Website** (<https://dentistry.uq.edu.au/profile/229/laurence-walsh>) **SciProfiles** (<https://sciprofiles.com/profile/314555>)

School of Dentistry, The University of Queensland, Herston, QLD 4072, Australia

**Interests:** antibiotic use; biofilm biology; antimicrobial biomaterials; prebiotics

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Materials: Dental Biomaterials 2017*** ([/journal/materials/special\\_issues/dental\\_biomaterials\\_2017](/journal/materials/special_issues/dental_biomaterials_2017))

**Dr. Clemens Walter**

**SciProfiles** (<https://sciprofiles.com/profile/612670>)

Department of Periodontology, Endodontology and Cariology, University Center for Dental Medicine (UZB), Basel, Switzerland

**Interests:** periodontitis; periimplantitis; gingivitis; teeth; biofilm; metronidazole; periodontal surgery; periodontal pathogens; microbiom

**Dr. Tuomas Waltimo**

**Website** (<http://www.uzb.ch>)

Department of Oral Health & Medicine, University Center for Dental Medicine Basel, University of Basel, 4001 Basel, Switzerland

**Interests:** antibiotics; disinfection; infection; oral health; prevention

**Dr. Zhuo Wang**

**Website** (<http://peopleucas.edu.cn/~camel5?language=en>) **SciProfiles** (<https://sciprofiles.com/profile/387418>)

State Key Laboratory of Biochemical Engineering, Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China

**Interests:** antifungal drugs; biofilm; antimicrobial resistance; natural antimicrobial agents; microbial polysaccharides



**Prof. Dr. Grzegorz Węgrzyn**

**Website** ([https://en.ug.edu.pl/pracownik/3140/grzegorz\\_wegrzyn](https://en.ug.edu.pl/pracownik/3140/grzegorz_wegrzyn))

Department of Molecular Biology, University of Gdańsk, Gdańsk, Poland

**Interests:** plasmids; bacteriophages; molecular mechanisms of antibiotics' actions

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Antibiotics vs. Phage Therapy*** ([/journal/antibiotics/special\\_issues/anti\\_phage](/journal/antibiotics/special_issues/anti_phage))

**Dr. Mick Welling**

**Website** (<https://www.lumc.nl/org/radiologie/medewerkers/130122032721358>)

**SciProfiles** (<https://sciprofiles.com/profile/128881>)

Interventional Molecular Imaging Laboratory, Department of Radiology, Leiden University Medical Center (LUMC), Leiden, The Netherlands

**Interests:** molecular imaging; tracer development; infection imaging; radiochemistry; biodistribution studies

**Prof. Dr. Elizabeth Wellington**

**Website1** (<http://www2.warwick.ac.uk/fac/sci/lifesci/people/ewellington>) **Website2** ([http://www2.warwick.ac.uk/fac/cross\\_fac/wesic/people/](http://www2.warwick.ac.uk/fac/cross_fac/wesic/people/))

School of Life Sciences, The University of Warwick, Coventry, UK

Warwick Environmental Systems Interdisciplinary Centre (WESIC), The University of Warwick, Coventry, UK

[Back to Top](#)

**Interests:** bacteria in soil, water and survival of pathogenic bacteria in the environment; environmental transmission routes for antimicrobial resistant bacteria and their resistance genes; Analysis of human gut flora from prevalence of AMR genes (ARG) in sewerage; microbial communities in soil and their activities in the rhizosphere using metagenomics to study metabolic processes below ground

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**Dr. Sebastiaan Werten**

**Website** (<https://www.i-med.ac.at/imcbc/molecularcellbiologyfolder/molcellbiol.html>)

**SciProfiles** (<https://sciprofiles.com/profile/902083>)

Biological Chemistry Division, Center of Chemistry and Biomedicine (CCB), Medizinische Universität Innsbruck, Innsbruck, Austria

**Interests:** structural biology; X-ray crystallography; NMR spectroscopy; cryo electron microscopy; regulation of antibiotic synthesis in microorganisms; resistance mechanisms; antimicrobial peptides; bacterial repressor proteins

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**Prof. Dr. Philip W. Wertz**

**Website** (<https://www.emedevents.com/speaker-profile/philip-w-wertz-30387>)

**SciProfiles** (<https://sciprofiles.com/profile/74996>)

Department of Oral Pathology, Radiology and Medicine, University of Iowa College of Dentistry, Iowa City, IA 52242, USA

**Interests:** skin barrier; stratum corneum; ceramides; cholesterol; fatty acids; sphingosine; antimicrobial lipids

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Innate Antimicrobial Defense of Skin and Oral Mucosa*** ([/journal/antibiotics/special\\_issues/skin\\_oral\\_antibiotics](/journal/antibiotics/special_issues/skin_oral_antibiotics))

Special Issue in ***International Journal of Molecular Sciences: Barrier Function of Skin and Oral Mucosa*** ([/ijms/special\\_issues/Skin\\_Oral\\_Mucosa](/ijms/special_issues/Skin_Oral_Mucosa))

Special Issue in ***International Journal of Molecular Sciences: Barrier Function of Skin and Oral Mucosa 2.0*** ([/ijms/special\\_issues/Skin\\_Oral\\_Mucosa2](/ijms/special_issues/Skin_Oral_Mucosa2))

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**Prof. Dr. Brian Wilkinson**

**Website** ([https://cas.illinoisstate.edu/faculty\\_staff/profile.php?ulid=bjwilkin#fs-tabs-accord1](https://cas.illinoisstate.edu/faculty_staff/profile.php?ulid=bjwilkin#fs-tabs-accord1))

**SciProfiles** (<https://sciprofiles.com/profile/67777>)

Department of Microbiology, School of Biological Sciences, Illinois State University, Normal, IL 61790-4120, USA

**Interests:** mechanisms of antibiotic action; mechanisms of antibiotic resistance; *Staphylococcus aureus* antibiotic resistance; bacterial membrane; cell walls

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**Prof. Dr. Mark Willcox**

**Website** (<https://www.optometry.unsw.edu.au/mark-willcox>) **SciProfiles** (<https://sciprofiles.com/profile/496816>)

School of Optometry and Vision Science, University of New South Wales, Sydney, NSW, Australia

**Interests:** ocular microbiology; development of new antimicrobial agents; mechanisms of antibiotic resistance

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: From the Southern Hemisphere: Research on Resistance, Antibiotics and Treatments*** ([/journal/antibiotics/special\\_issues/southern\\_hemisphere\\_antibiotics](/journal/antibiotics/special_issues/southern_hemisphere_antibiotics))

Special Issue in ***Antibiotics: Ocular Surface Infection and Antimicrobials*** ([/journal/antibiotics/special\\_issues/Ocular\\_Antimicrobials](/journal/antibiotics/special_issues/Ocular_Antimicrobials))

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**Dr. Zbigniew J. Witczak**

**Website** (<https://www.wilkes.edu/campus-directory/zbigniew.witczak.aspx>)

Department of Pharmaceutical Sciences Nesbitt School of Pharmacy, Wilkes University, Wilkes-Barre, PA, USA

**Interests:** medicinal chemistry; carbohydrate chemistry; organic chemistry; click chemistry; natural products chemistry

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in ***Antibiotics: Thio Modified Aminoglycoside Antibiotic Analogs*** ([/journal/antibiotics/special\\_issues/Aminoglycoside\\_Antibiotic](/journal/antibiotics/special_issues/Aminoglycoside_Antibiotic))

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**Dr. Bernhard Witulski**

**Website** (<https://www.lcmt.ensicaen.fr/professeurs-et-directeur-de-recherche/>)

**SciProfiles** (<https://sciprofiles.com/profile/398656>)

Laboratoire de Chimie Moléculaire et Thio-organique (LCMT), CNRS, ENSICAEN & UNICAEN, Université Normandie, 14050 Caen, France

**Interests:** organic chemistry; synthesis of natural products; chemistry of acetylenic compounds; aromatic and heteroaromatic compounds; fluorescence spectroscopy

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**Prof. Dr. Yongning Wu**

**Website** (<https://www.cfsa.net.cn/Article>

[/News.aspx?id=E888D8BF9987E862102160DCB36687BCB0E8C0B2A8DA304D](#))

**SciProfiles** (<https://sciprofiles.com/profile/329326>)



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China National Center for Food Safety Risk Assessment, NHC Key Laboratory of Food Safety Risk Assessment, and Chinese Academy of Medical Sciences Research Unit (2019RU014), Beijing 100022, China

**Interests:** food safety; veterinary medicine; residues; antibiotic resistance; food contaminants; risk assessment; exposure assessment; public health; environment; food; water

**Prof. Dr. Yan Q. Xiong**

**Website** (<https://lundquist.org/yan-xiong-md-phd>)

Department of Medicine, Division of Infectious Diseases, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

**Interests:** bacterial pathogenesis; antimicrobial resistance

**Prof. Dr. Zhenbo Xu**

**Website** ([http://www2.scut.edu.cn/food\\_en/2017/0411/c6187a161145/page.htm](http://www2.scut.edu.cn/food_en/2017/0411/c6187a161145/page.htm))

**SciProfiles** (<https://sciprofiles.com/profile/245801>)

1. School of Food Science and Engineering, South China University of Technology, Guangzhou, China

2. University of Maryland, College Park, Maryland, USA

**Interests:** biofilms; antimicrobial resistance; polymicrobial interaction; anti-biofilms; rapid detection

**Special Issues, Collections and Topics in MDPI journals**

Topical Collection in [Antibiotics: Antimicrobial Resistance and Anti-Biofilms \(/journal/antibiotics/special\\_issues](#)

[/conference/Biofilms\)](#)

Special Issue in [Antibiotics: The Antimicrobial and Antivirulent Effects of Natural Products and Their Nanoparticles](#)

[\(/journal/antibiotics/special\\_issues/Nano\\_Antibiotics\)](#)

**Prof. Dr. Yasunori Yaoita**

**Website** ([https://jglobal.jst.go.jp/en/detail?JGLOBAL\\_ID=200901066144856251&rel=0](https://jglobal.jst.go.jp/en/detail?JGLOBAL_ID=200901066144856251&rel=0))

**SciProfiles** (<https://sciprofiles.com/profile/344533>)

Pharmaceutical Education Center, Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University, 4-4-1 Komatsushima, Aoba-ku, Sendai 981-8558, Japan

**Interests:** natural product chemistry; isolation; structure determination; sterols; terpenoids

**Special Issues, Collections and Topics in MDPI journals**

Special Issue in [Molecules: Natural Sterols \(/journal/molecules/special\\_issues/sterols\)](#)

Special Issue in [Antibiotics: Terpenoids from Microorganisms: Their Chemistry and Biology \(/journal/antibiotics/special\\_issues/Terpenoids\\_micro\)](#)

**Prof. Dr. Theoklis E. Zaoutis**

**Website** (<https://www.med.upenn.edu/apps/faculty/index.php/g275/p13092>)

Center for Clinical Epidemiology and Outcomes Research (CLEO), Athens, Greece

**Interests:** pediatrics; antibiotic stewardship; infectious diseases; clinical trial

**Prof. Dr. Susanne Zeilinger-Migsich**

**Website** (<https://www.uibk.ac.at/microbiology/team/susanne-zeilinger/index.html.en>)

**SciProfiles** (<https://sciprofiles.com/profile/557341>)

Department of Microbiology, University of Innsbruck, 6020 Innsbruck, Austria

**Interests:** Filamentous fungi; fungal secondary metabolites; microbial interactions; mycoparasitism

**Dr. Teresa Zelante**

**Website** (<https://www.unipg.it/personale/teresa.zelante/>)

Department of Experimental Medicine, Università degli Studi di Perugia, Perugia, Italy

[Back to Top](#)

**Interests:** Th17; antifungal immunity; Tolerance; Microbiome

**Prof. Dr. Zhenling Zeng**

**Website** (<https://vet.scau.edu.cn/2017/0929/c804a54256/page.htm>)

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College of Veterinary Medicine, Guangdong Provincial Key Laboratory of Veterinary Pharmaceutics Development and Safety Evaluation, National Risk Assessment Laboratory for Antimicrobial Resistance of Animal Original Bacteria, South China Agricultural University, Guangzhou 510642, China

**Interests:** veterinary pharmacokinetics; veterinary drug residues; animal pathogens; antimicrobial resistance

**Prof. Dr. Marcus J. Zervos**

**Website** (<https://www.henryford.com/physician-directory/z/zervos-marcus>)

Division of Infectious Diseases, Henry Ford Hospital; Wayne State University School of Medicine, Detroit, MI, USA

**Interests:** infections

**Prof. Dr. Lian-hui Zhang**

**Website** (<https://nxy.scau.edu.cn/nxyenglish/2018/1226/c6440a158513/page.htm>)

Integrative Microbiology Research Center, South China Agricultural University, Guangzhou, China

**Interests:** microbial quorum sensing; quorum quenching; pathogen-Host cell-cell communication; biofilm

**Dr. Lixin Zhang**

**Website** (<https://mmg.natsci.msu.edu/people/faculty/zhang-lixin/>)

1. Department of Epidemiology and Biostatistics, College of Human Medicine, East Lansing, MI 48824, USA

2. Department of Microbiology and Molecular Genetics, College of Natural Science Michigan State University, East Lansing, MI 48824, USA

**Interests:** Infectious disease epidemiology; antimicrobial resistance; microbiome; public health

**Dr. Yongan Zhang**

**Website** (<http://cf.hzau.edu.cn/info/1013/2490.htm>)

State Key Laboratory of Agricultural Microbiology, College of Fisheries, Huazhong Agricultural University, Wuhan, China

**Interests:** antimicrobial peptide; antibacterial peptide; peptide antibiotics

**Dr. Xuxiang Zhang**

**Website** ([https://hjxy.nju.edu.cn/en\\_wbe/teacher/zhangxx.htm](https://hjxy.nju.edu.cn/en_wbe/teacher/zhangxx.htm))

State Key Laboratory of Pollution Control and Resource Reuse, School of the Environment, Nanjing University, Nanjing 210023, China

**Interests:** degradation and transformation of organic micro-pollutants in environments; correlation of antibiotics with resistant bacteria and resistance genes in environments; advanced biological technologies for wastewater treatment; risk assessment and control technologies for wastewater reuse

**Prof. Dr. Ying Zhang**

**Website** (<http://www.jhsph.edu/faculty/directory/profile/3860/Zhang/Ying>)

**SciProfiles** (<https://sciprofiles.com/profile/111617>)

Department of Molecular Microbiology and Immunology, Bloomberg School of Public Health, Johns Hopkins University, 615 N. Wolfe Street, Baltimore, MD 21205, USA

**Interests:** mechanisms of persister drug pyrazinamide (PZA) action and resistance in *M. tuberculosis*; mechanisms of bacterial persistence and L-forms; mycobacterial pathogenesis; development of novel drugs and vaccines targeting persister bacteria; development of novel diagnostic tools for improved detection of TB and drug-resistant TB; Cancer stem cell mechanisms and drugs

**Prof. Dr. Zheming Zhou**

**Website** (<http://pasteur.suda.edu.cn/98/a2/c15941a432290/page.htm>)

Pasteurien College, Soochow University, Suzhou 215123, China

**Interests:** epidemiological clinical detection; pathogenic microorganism; food borne disease; metagenomics; bioinformatics

**Prof. Dr. Zhigang Zhou**

**Website1** (<http://ifr.caas.cn/zjdw/zmzj/55162.htm>) **Website2** ([http://www.caas.cn/cms/web/search/detailed\\_info.jsp?id=e79ec8de024dba4070f534b24c79ea32](http://www.caas.cn/cms/web/search/detailed_info.jsp?id=e79ec8de024dba4070f534b24c79ea32))

China-Norway Joint Lab on Fish Gut Microbiota, Chinese Academy of Agricultural Sciences, Beijing 100081, China [Back to Top](#)



**Interests:** aquatic microbiology; fish gut microbiota; aquaculture nutrition; interactions of commensal microbiota and viral infection; probiotics in aquaculture



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### Prof. Dr. Mire Zloh

**Website1** (<https://iris.ucl.ac.uk/iris/browse/profile?upi=MZLOH46>) **Website2** ([https://www.researchgate.net/profile/Mire\\_Zloh](https://www.researchgate.net/profile/Mire_Zloh)) **SciProfiles** (<https://sciprofiles.com/profile/480262>)

UCL School of Pharmacy, University College London, London WC1N 1AX, UK

**Interests:** computer-aided molecular design; molecular dynamics; computational chemistry; protein–ligand interactions; protein–excipient interactions; formulation design; NMR spectroscopy; antimicrobial peptide modelling

#### **Special Issues, Collections and Topics in MDPI journals**

Special Issue in **Pharmaceutics: Protein Therapeutics** ([/journal/pharmaceutics/special\\_issues/Protein\\_Therapeutics](/journal/pharmaceutics/special_issues/Protein_Therapeutics))

Special Issue in **Molecules: Dendrimers as Nanocarriers for Drug Delivery** ([/journal/molecules/special\\_issues/Dendrimers\\_as\\_Nanocarriers\\_for\\_Drug\\_Delivery](/journal/molecules/special_issues/Dendrimers_as_Nanocarriers_for_Drug_Delivery))

### Prof. Dr. Sergey B. Zotchev

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Department of Pharmacognosy, University of Vienna, Vienna, Austria

**Interests:** antibiotics; bioprospecting; secondary metabolites biosynthesis; bacterial genetics; metabolic engineering; synthetic biology

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### **Effective Clinical Pathway Improves Interprofessional Collaboration and Reduces Antibiotics Prophylaxis Use in Orthopedic Surgery in Hospitals in Indonesia (2019-6382/11/3/399)**

by [Fauna Herawati](https://sciprofiles.com/profile/903920) (https://sciprofiles.com/profile/903920),[Adinda Dessi Irawati](https://sciprofiles.com/profile/author/Yk5VbStxaIRMUEFpcWxSc1NjVGvKM3BMVllUS1ZKc0x0T2xjWUYzCitsQT0=) (https://sciprofiles.com/profile/author/Yk5VbStxaIRMUEFpcWxSc1NjVGvKM3BMVllUS1ZKc0x0T2xjWUYzCitsQT0=),[Ella Viani](https://sciprofiles.com/profile/author/UWxJSEVL3aByTDViy2VTWlorcWI4zJFN09XUkx3Ykx5SEY2UHFvbXFTRT0=) (https://sciprofiles.com/profile/author/UWxJSEVL3aByTDViy2VTWlorcWI4zJFN09XUkx3Ykx5SEY2UHFvbXFTRT0=),[Nully Andaretha Sugianto](https://sciprofiles.com/profile/author/N0Z1UXRtN2VhYkMxN2h6NmxiNDF0Wm1oQW5kTTlqU0Nvd2FvMkVMSjBpMD0=) (https://sciprofiles.com/profile/author/N0Z1UXRtN2VhYkMxN2h6NmxiNDF0Wm1oQW5kTTlqU0Nvd2FvMkVMSjBpMD0=),[Nur Laili Rahmatin](https://sciprofiles.com/profile/author/QzRSWTZPKzhjZmxyaEh3YVd6N0hvNEY3aEM0SnImS2kvVHc2UUN6dTY3MD0=) (https://sciprofiles.com/profile/author/QzRSWTZPKzhjZmxyaEh3YVd6N0hvNEY3aEM0SnImS2kvVHc2UUN6dTY3MD0=),[Made Prita Artika](https://sciprofiles.com/profile/2116774) (https://sciprofiles.com/profile/2116774),[Sukmawati Eka Bima Sahputri](https://sciprofiles.com/profile/author/bGRISG54NEZUc2F3Sm1Cc0pLSS9QOW9GaFd0QThGWjKxSm1FN20vSDZUdz0=) (https://sciprofiles.com/profile/author/bGRISG54NEZUc2F3Sm1Cc0pLSS9QOW9GaFd0QThGWjKxSm1FN20vSDZUdz0=),[Setiasih](https://sciprofiles.com/profile/author/S1c5S0M2NmE3RV14SHd0REg3UjFsrWEXRno3cGcxRIRmckdRWHVPU2hLMD0=) (https://sciprofiles.com/profile/author/S1c5S0M2NmE3RV14SHd0REg3UjFsrWEXRno3cGcxRIRmckdRWHVPU2hLMD0=),[Kevin Kantono](https://sciprofiles.com/profile/424867) (https://sciprofiles.com/profile/424867), [Rika Yulia](https://sciprofiles.com/profile/2099068) (https://sciprofiles.com/profile/2099068),[Retnosari Andrajati](https://sciprofiles.com/profile/author/SWgvSkVkd0puWgIRSGJvd3V6S0pxU216N2ZLWllueHZXQkxUkFJR3VGT0=) (https://sciprofiles.com/profile/author/SWgvSkVkd0puWgIRSGJvd3V6S0pxU216N2ZLWllueHZXQkxUkFJR3VGT0=) and[Diantha Soemantri](https://sciprofiles.com/profile/1876113) (https://sciprofiles.com/profile/1876113)*Antibiotics* 2022, 11(3), 399; <https://doi.org/10.3390/antibiotics11030399> (https://doi.org/10.3390/antibiotics11030399) - 16 Mar 2022

**Abstract** Clinical pathways can improve the quality of health services. The effectiveness and impact of implementing clinical pathways are controversial. The preparation of clinical pathways not only enacts therapeutic guidelines but requires mutual agreement in accordance with the roles, duties, and contributions of each [...]. [Read more](#). (This article belongs to the Special Issue [Antibiotics Use and Stewardship in Hospitals and Outpatients Care Facilities](#) ([/journal/antibiotics/special\\_issues/Anti\\_Hospitals](#)))

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### **Increased Association of Pulmonary Thromboembolism and Tuberculosis during COVID-19 Pandemic: Data from an Italian Infectious Disease Referral Hospital (2019-6382/11/3/398)**

by [Virginia Di Bari](https://sciprofiles.com/profile/2081418) (https://sciprofiles.com/profile/2081418), [Gina Gualano](https://sciprofiles.com/profile/1497363) (https://sciprofiles.com/profile/1497363),[Maria Musso](https://sciprofiles.com/profile/author/RXZmRmEvNmtiOG9nNXpCwZXCENiSINUbWFKYXZRTVNXVjNhRWcwaS9tRT0=) (https://sciprofiles.com/profile/author/RXZmRmEvNmtiOG9nNXpCwZXCENiSINUbWFKYXZRTVNXVjNhRWcwaS9tRT0=),[Raffaella Libertone](https://sciprofiles.com/profile/author/M2NIVU9Vb3p5ZSRQk43QXovODV4MWIiWwFtNW8zT1N5aVpJUU5S21nVT0=) (https://sciprofiles.com/profile/author/M2NIVU9Vb3p5ZSRQk43QXovODV4MWIiWwFtNW8zT1N5aVpJUU5S21nVT0=),[Carla Nisii](https://sciprofiles.com/profile/1514751) (https://sciprofiles.com/profile/1514751), [Stefania Ianniello](https://sciprofiles.com/profile/1695309) (https://sciprofiles.com/profile/1695309),[Silvia Mosti](https://sciprofiles.com/profile/author/cEtZSjpJQXDNWihUbTg0djAreVMzBfqpRHILb3o1aXdsRndyexkpaEeJUT0=) (https://sciprofiles.com/profile/author/cEtZSjpJQXDNWihUbTg0djAreVMzBfqpRHILb3o1aXdsRndyexkpaEeJUT0=),[Annelisa Mastrobattista](https://sciprofiles.com/profile/2115586) (https://sciprofiles.com/profile/2115586),[Carlotta Cerva](https://sciprofiles.com/profile/author/TGV2R2hOaHJrQVduQ1dpOXhrRWFRHBudm1pYkp3OExuWEXWai9sRHNJbz0=) (https://sciprofiles.com/profile/author/TGV2R2hOaHJrQVduQ1dpOXhrRWFRHBudm1pYkp3OExuWEXWai9sRHNJbz0=),[Nazario Bevilacqua](https://sciprofiles.com/profile/author/U3dFbXZIViVoVgPmEm2x6Uld6K0w4SFhZn2dkU3REa0ZyenVJRDU4Ug2ND0=) (https://sciprofiles.com/profile/author/U3dFbXZIViVoVgPmEm2x6Uld6K0w4SFhZn2dkU3REa0ZyenVJRDU4Ug2ND0=),[Fabio Iacomì](https://sciprofiles.com/profile/author/ZytCTkrcbWd4TC83dVp1WE16VHIHUs3T0ozY2Q0ZWIGcEEwb0NVTksxbz0=) (https://sciprofiles.com/profile/author/ZytCTkrcbWd4TC83dVp1WE16VHIHUs3T0ozY2Q0ZWIGcEEwb0NVTksxbz0=),[Annalisa Mondì](https://sciprofiles.com/profile/2052640) (https://sciprofiles.com/profile/2052640),[Simone Topino](https://sciprofiles.com/profile/author/Q1VycWx0NnuNzJwbTNOWjFBQIY0SnVvK0F5eTJQUIFEenIOVEN5WVJpQT0=) (https://sciprofiles.com/profile/author/Q1VycWx0NnuNzJwbTNOWjFBQIY0SnVvK0F5eTJQUIFEenIOVEN5WVJpQT0=),[Delia Goletti](https://sciprofiles.com/profile/1105894) (https://sciprofiles.com/profile/1105894), [Enrico Girardi](https://sciprofiles.com/profile/1510553) (https://sciprofiles.com/profile/1510553),[Fabrizio Palmieri](https://sciprofiles.com/profile/1183224) (https://sciprofiles.com/profile/1183224) andon behalf of the TB-INMI Working Group ([/search?authors=on%20behalf%20of%20the%20TB-INMI%20Working%20Group&orcid=](#)*Antibiotics* 2022, 11(3), 398; <https://doi.org/10.3390/antibiotics11030398> (https://doi.org/10.3390/antibiotics11030398) - 16 Mar 2022

**Abstract** Pulmonary thromboembolism (PTE) has been associated with tuberculosis (TB), but the true incidence is unknown. The aim of our study was to retrospectively evaluate the PTE prevalence in TB patients hospitalized at the National Institute for Infectious Diseases L. Spallanzani during the January [...]. [Read more](#). (This article belongs to the Special Issue [Antibiotics and Infectious Respiratory Diseases](#) ([/journal/antibiotics/special\\_issues/Respiratory\\_Disease](#)))

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### **Prevalence and Characteristics of *Streptococcus agalactiae* from Freshwater Fish and Pork in Hong Kong Wet Markets (2019-6382/11/3/397)**

by [Dulmini Nanayakkara Sapugahawatte](https://sciprofiles.com/profile/1116096) (https://sciprofiles.com/profile/1116096), [Carmen Li](https://sciprofiles.com/profile/1153236) (https://sciprofiles.com/profile/1153236),[Priyanga Dharmaratne](https://sciprofiles.com/profile/1090155) (https://sciprofiles.com/profile/1090155),[Chendi Zhu](https://sciprofiles.com/profile/author/ZjJWQU5CSldpK1dGTCtBYWpvVII2UFVHc3lhOVNOYzhaQWtMcnJyZnpqMD0=) (https://sciprofiles.com/profile/author/ZjJWQU5CSldpK1dGTCtBYWpvVII2UFVHc3lhOVNOYzhaQWtMcnJyZnpqMD0=),[Yun Kit Yeoh](https://sciprofiles.com/profile/author/Zz1ldzJTLzZ2OUozYTFBS0ROUk15UzMySFBBNW9yaC9uejBZQVJ4RnV3TT0=) (https://sciprofiles.com/profile/author/Zz1ldzJTLzZ2OUozYTFBS0ROUk15UzMySFBBNW9yaC9uejBZQVJ4RnV3TT0=),[Jun Yang](https://sciprofiles.com/profile/2106967) (https://sciprofiles.com/profile/2106967),[Norman Wai Sing Lo](https://sciprofiles.com/profile/author/bXNgSy82TVzrbVzmbJJSWW40QjZPbU1KZEswRnR3dmhJM1RkNFdwOVJDND0=) (https://sciprofiles.com/profile/author/bXNgSy82TVzrbVzmbJJSWW40QjZPbU1KZEswRnR3dmhJM1RkNFdwOVJDND0=),[Kam Tak Wong](https://sciprofiles.com/profile/author/YkIRZ0IPTmFQCHe5dImbXJ6eVNmY1pNTHNnRmJIMjJrdEtLdXRJcFlaWT0=) (https://sciprofiles.com/profile/author/YkIRZ0IPTmFQCHe5dImbXJ6eVNmY1pNTHNnRmJIMjJrdEtLdXRJcFlaWT0=) and[Margaret Ip](https://sciprofiles.com/profile/1090336) (https://sciprofiles.com/profile/1090336)*Antibiotics* 2022, 11(3), 397; <https://doi.org/10.3390/antibiotics11030397> (https://doi.org/10.3390/antibiotics11030397) - 16 Mar 2022

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**Abstract** We report the antimicrobial resistance of 191 fish and 61 pork Group B *Streptococcus* (GBS) procured from Hong Kong wet markets. Two-hundred-and-fifty-two GBS strains were isolated from 992 freshwater fish and 361 pig offal during 2016–2019. The strains were isolated from homogenised samples [...]. [Read more](#). (This article belongs to the Special Issue [Antibiotic Resistance and Infectious Diseases: A One Health Perspective](#) ([/journal/antibiotics/special\\_issues/Infection\\_antibiotics](#)))

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### **Studies on the Reactions of Biapenem with VIM Metallo $\beta$ -Lactamases and the Serine $\beta$ -Lactamase KPC-2 (2019-6382/11/3/396)**

by [Anka Lucic](https://sciprofiles.com/profile/author/bkZXT3krRlXQIS1hQZHVxc3RpZEVIVzAzcnRYTIVPanEycmZzVjVQU2hYcz0=) (https://sciprofiles.com/profile/author/bkZXT3krRlXQIS1hQZHVxc3RpZEVIVzAzcnRYTIVPanEycmZzVjVQU2hYcz0=),[Tika R. Malla](https://sciprofiles.com/profile/author/aDNm0tWQjN6QXdvTm5YckRQNFZSRE9SMGJXOGVvNHbnd0J5NXUOZmdYb20=) (https://sciprofiles.com/profile/author/aDNm0tWQjN6QXdvTm5YckRQNFZSRE9SMGJXOGVvNHbnd0J5NXUOZmdYb20=),[Karina Calvoaña](https://sciprofiles.com/profile/author/NUscrDRCWmJ6UTByRW5KS0hvUudxUHV5aE1xeGh5eThrTGZJSWNWdXp6REXEc0ZLVE1sZ1dReHhwNmXs2plaw=) (https://sciprofiles.com/profile/author/NUscrDRCWmJ6UTByRW5KS0hvUudxUHV5aE1xeGh5eThrTGZJSWNWdXp6REXEc0ZLVE1sZ1dReHhwNmXs2plaw=)[Catherine L. Tooke](https://sciprofiles.com/profile/author/cjZ0StMdkFoSkvsNUErNXERHII1NFB5OU44RTnROSjtUVhoVlp0RnZod0=) (https://sciprofiles.com/profile/author/cjZ0StMdkFoSkvsNUErNXERHII1NFB5OU44RTnROSjtUVhoVlp0RnZod0=),[Jürgen Brem](https://sciprofiles.com/profile/486088) (https://sciprofiles.com/profile/486088), [Michael A. McDonough](https://sciprofiles.com/profile/2063943) (https://sciprofiles.com/profile/2063943),

James Spencer (<https://sciprofiles.com/profile/author/NHZacmdGS3JJa5Zb0ViUFBGOVpmRm5sWGtpTzZTSWtTdE9Wekd3VzVoOD0=>) and Christopher J. Schofield (<https://sciprofiles.com/profile/1073684>)

*Antibiotics* **2022**, *11*(3), 396; <https://doi.org/10.3390/antibiotics11030396> (<https://doi.org/10.3390/antibiotics11030396>) - 16 Mar 2022

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**Abstract** Carbapenems are important antibacterials and are both substrates and inhibitors of some  $\beta$ -lactamases. We report studies on the reaction of the unusual carbapenem biapenem, with the subclass B1 metallo- $\beta$ -lactamases VIM-1 and VIM-2 and the class A serine- $\beta$ -lactamase KPC-2. X-ray diffraction studies with VIM-2 [...] [Read more](#). (This article belongs to the Special Issue [Targeting  \$\beta\$ -Lactamases to Fight Antimicrobial Resistance](#) ([/journal/antibiotics/special\\_issues/lactamases\\_resistance](#)))

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**The Effect of Tannin-Rich Witch Hazel on Growth of Probiotic *Lactobacillus plantarum*** ([/2019-6382/11/3/395](#))

by Reuven Rasooly (<https://sciprofiles.com/profile/949698>),

Alex C. Howard (<https://sciprofiles.com/profile/author/eHJwcmYzTFZrVGlxRiMwK3oxbzR6cTBUTFZBQ1IWYzFLSEFtKytrYUpCaz0=>),

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*Antibiotics* **2022**, *11*(3), 395; <https://doi.org/10.3390/antibiotics11030395> (<https://doi.org/10.3390/antibiotics11030395>) - 16 Mar 2022

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**Abstract** Probiotic bacteria help maintain microbiome homeostasis and promote gut health. Maintaining the competitive advantage of the probiotics over pathogenic bacteria is a challenge, as they are part of the gut microbiome that is continuously exposed to digestive and nutritional changes and various stressors. [...] [Read more](#). (This article belongs to the Special Issue [10th Anniversary of Antibiotics - Recent Advances in Novel Antimicrobial Agents](#) ([/journal/antibiotics/special\\_issues/10th\\_anti\\_agent](#)))

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**Comparative Study on Synergistic Toxicity of Enrofloxacin Combined with Three Antibiotics on Proliferation of THLE-2 Cell** ([/2019-6382/11/3/394](#))

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*Antibiotics* **2022**, *11*(3), 394; <https://doi.org/10.3390/antibiotics11030394> (<https://doi.org/10.3390/antibiotics11030394>) - 16 Mar 2022

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**Abstract** Little attention has been paid to the problem of the combined toxicity of accumulated antibiotics on humans from food and clinical treatments. Therefore, we used human hepatocytes to study the joint toxicity of four common antibiotics. The cytotoxicity of enrofloxacin (ENR), combined with [...] [Read more](#). (This article belongs to the Section [Antibiotics in Animal Health](#) ([/journal/antibiotics/sections/antibiotics\\_animal\\_health](#)))

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**Ability of Essential Oil Vapours to Reduce Numbers of Culturable Aerosolised Coronavirus, Bacteria and Fungi** ([/2019-6382/11/3/393](#))

by Parthasarathi Kalaiselvan (<https://sciprofiles.com/profile/1948524>), Muhammad Yasir (<https://sciprofiles.com/profile/1251506>),

Rajesh Kuppusamy (<https://sciprofiles.com/profile/1246325>), Mark Willcox (<https://sciprofiles.com/profile/496816>) and

Ajay Kumar Vijay (<https://sciprofiles.com/profile/523945>)

*Antibiotics* **2022**, *11*(3), 393; <https://doi.org/10.3390/antibiotics11030393> (<https://doi.org/10.3390/antibiotics11030393>) - 15 Mar 2022

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**Abstract** Transmission of pathogens present in the indoor air can occur through aerosols. This study evaluated the efficacy of an evaporated mix of essential oils to reduce the numbers of culturable aerosolized coronavirus, bacterium and fungus. The essential oil-containing gel was allowed to vaporize [...] [Read more](#). (This article belongs to the Special Issue [Antimicrobial Activity of Essential Oils](#) ([/journal/antibiotics/special\\_issues/Antimicrobial\\_Oils](#)))

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**Evaluation of Bacteriophage-Antibiotic Combination Therapy for Biofilm-Embedded MDR *Enterococcus faecium*** ([/2019-6382/11/3/392](#))

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*Antibiotics* **2022**, *11*(3), 392; <https://doi.org/10.3390/antibiotics11030392> (<https://doi.org/10.3390/antibiotics11030392>) - 15 Mar 2022

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**Abstract** Multidrug-resistant (MDR) *Enterococcus faecium* is a challenging pathogen known to cause biofilm-mediated infections with limited effective therapeutic options. Lytic bacteriophages target, infect, and lyse specific bacterial cells and have anti-biofilm activity, making them a possible treatment option. Here, we examine two biofilm-producing clinical [...] [Read more](#).





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**Lagoon, Anaerobic Digestion, and Composting of Animal Manure Treatments Impact on Tetracycline Resistance Genes** ([/2079-6382/11/3/391](#))


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*Antibiotics* **2022**, *11*(3), 391; <https://doi.org/10.3390/antibiotics11030391> (<https://doi.org/10.3390/antibiotics11030391>) - 15 Mar 2022

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**Abstract** Increased demand for animal protein is met by increased food animal production resulting in large quantities of manure. Animal producers, therefore, need sustainable agricultural practices to protect environmental health. Large quantities of antimicrobials are used in commercial food animal production. Consequently, antimicrobial-resistant bacteria [...] [Read more](#).

(This article belongs to the Special Issue [Antimicrobial Resistance and Zoonoses](#) ([/journal/antibiotics/special\\_issues/antimicrobial\\_anti\\_zoonoses](#)))

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
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**Nanozybiotics: Nanozyme-Based Antibacterials against Bacterial Resistance** ([/2079-6382/11/3/390](#))

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*Antibiotics* **2022**, *11*(3), 390; <https://doi.org/10.3390/antibiotics11030390> (<https://doi.org/10.3390/antibiotics11030390>) - 15 Mar 2022

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**Abstract** Infectious diseases caused by bacteria represent a global threat to human health. However, due to the abuse of antibiotics, drug-resistant bacteria have evolved rapidly and led to the failure of antibiotics treatment. Alternative antimicrobial strategies different to traditional antibiotics are urgently needed. Enzyme-based [...] [Read more](#).

(This article belongs to the Special Issue [Alternative Approaches to Treating Antimicrobial Resistant Infections - 2nd Volume](#) ([/journal/antibiotics/special\\_issues/alternative\\_antimicrobial](#)))

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

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**The Association between *icaA* and *icaB* Genes, Antibiotic Resistance and Biofilm Formation in Clinical Isolates of *Staphylococci* spp.** ([/2079-6382/11/3/389](#))

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 [Yehia El-Zawahry](#) (<https://sciprofiles.com/profile/author/VVYwFjrhEbklwE4wncplwFtUHLxc1IOVlpQMHRVVFvNv0bURkcUZSQ0=>),

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*Antibiotics* **2022**, *11*(3), 389; <https://doi.org/10.3390/antibiotics11030389> (<https://doi.org/10.3390/antibiotics11030389>) - 15 Mar 2022

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**Abstract** Sixty-six (66) *Staphylococcus* bacterial isolates were withdrawn from separate clinical samples of hospitalized patients with various clinical infections. Conventional bacteriological tests identified the species of all isolates, and standard microbiological techniques differentiated them into CoPS or CoNS. Their biofilm development was followed by [...] [Read more](#).



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**A Ternary Copper (II) Complex with 4-Fluorophenoxyacetic Acid Hydrazide in Combination with Antibiotics Exhibits Positive Synergistic Effect against *Salmonella* Typhimurium** ([/2079-6382/11/3/388](#))


by  [Guilherme Paz Monteiro](#) (<https://sciprofiles.com/profile/1203719>),  [Roberta Torres de Melo](#) (<https://sciprofiles.com/profile/1118301>),

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*Antibiotics* **2022**, *11*(3), 388; <https://doi.org/10.3390/antibiotics11030388> (<https://doi.org/10.3390/antibiotics11030388>) - 15 Mar 2022

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**Abstract** *Salmonella* spp. continues to figure prominently in world epidemiological registries as one of the leading causes of bacterial foodborne disease. We characterised 43 Brazilian lineages of *Salmonella* Typhimurium (ST) strains, characterized drug resistance patterns, tested copper (II) complex as control options, and proposed [...] [Read more](#).

(This article belongs to the Special Issue [Antibacterial Resistance and Novel Strategies to Eradicate Bacterial Biofilms](#) ([/journal/antibiotics/special\\_issues/anti\\_biofilm](#)))

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**Epidemiology, Risk Factors and Outcome Due to Multidrug Resistant Organisms in Paediatric Liver Transplant Patients in the Era of Antimicrobial Stewardship and Screening** (2019-6382/11/3/387)

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by [Anita Verma](https://sciprofiles.com/profile/2084200) (https://sciprofiles.com/profile/2084200),[Sunitha Vimalasvaran](https://sciprofiles.com/profile/author/NiZqeUxhazY1Q3g3YIU4aVfHM2UxKys1UEXiSGZKk1VhQnYrSVJ4MWNCVt0=) (https://sciprofiles.com/profile/author/NiZqeUxhazY1Q3g3YIU4aVfHM2UxKys1UEXiSGZKk1VhQnYrSVJ4MWNCVt0=) and [Anil Dhawan](https://sciprofiles.com/profile/author/Szi0SHVaSS80dzdrS1B5UmXPMXNDwI4bTNaZ2RESGN5MIZZcKpvmplOD0=) (https://sciprofiles.com/profile/author/Szi0SHVaSS80dzdrS1B5UmXPMXNDwI4bTNaZ2RESGN5MIZZcKpvmplOD0=)*Antibiotics* 2022, 11(3), 387; <https://doi.org/10.3390/antibiotics11030387> (https://doi.org/10.3390/antibiotics11030387) - 15 Mar 2022

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**Abstract** (1) Background: Multidrug-resistant organisms (MDRO) are a growing problem in liver transplant recipients (LTR), associated with high morbidity and mortality. We reviewed the impact of antimicrobial stewardship (AMS) and active screening of MDRO on the epidemiology and outcomes in paediatric LTR. (2) Methods: [...] [Read more](#). (This article belongs to the Special Issue [Pediatric Antimicrobial Stewardship](#) ([/journal/antibiotics/special\\_issues/pediatric\\_stewardship](#)))▶ [Show Figures](#)[\(antibiotics/antibiotics-11-00387/article\\_deploy/html/images/antibiotics-11-00387-g001-550.jpg\)](#)

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**Use of a Silver-Impregnated Vascular Graft: Single-Center Experience** (2019-6382/11/3/386)by [Jiri Molacek](https://sciprofiles.com/profile/1901770) (https://sciprofiles.com/profile/1901770),[Vladislav Treska](https://sciprofiles.com/profile/author/M1VjZdUeW1henRkVGHzeXJpbGxZyZnJNmJ3YVxmUG1Sbkh3NERzSTJibz0=) (https://sciprofiles.com/profile/author/M1VjZdUeW1henRkVGHzeXJpbGxZyZnJNmJ3YVxmUG1Sbkh3NERzSTJibz0=),[Karel Houdek](https://sciprofiles.com/profile/author/YIRTQVbPpR1NyWEhIQ1oyQ21NYjV4bGpOaG13QXYxdk1lankxVzN4b2dMdZ0=) (https://sciprofiles.com/profile/author/YIRTQVbPpR1NyWEhIQ1oyQ21NYjV4bGpOaG13QXYxdk1lankxVzN4b2dMdZ0=),[Václav Opatrný](https://sciprofiles.com/profile/author/TU5uWHdHdEU1dDdJjU2jNfVdVNMzTaBZYXmMmtUNXREaytJOHvZvdNFHND0=) (https://sciprofiles.com/profile/author/TU5uWHdHdEU1dDdJjU2jNfVdVNMzTaBZYXmMmtUNXREaytJOHvZvdNFHND0=),[Bohuslav Certik](https://sciprofiles.com/profile/author/NWgwc1FzbnNSemJkL2XbnJqVC9HhHhCOU4wZEEdWWWUgzWVvVUzreldEzZ0=) (https://sciprofiles.com/profile/author/NWgwc1FzbnNSemJkL2XbnJqVC9HhHhCOU4wZEEdWWWUgzWVvVUzreldEzZ0=) and[Jan Baxa](https://sciprofiles.com/profile/author/d1UxcjdqOHRUHFayZl3NTZmTEpCbndsZzNFWUdiQURkaGFIMjdCajhQQT0=) (https://sciprofiles.com/profile/author/d1UxcjdqOHRUHFayZl3NTZmTEpCbndsZzNFWUdiQURkaGFIMjdCajhQQT0=)*Antibiotics* 2022, 11(3), 386; <https://doi.org/10.3390/antibiotics11030386> (https://doi.org/10.3390/antibiotics11030386) - 15 Mar 2022

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**Abstract** Introduction: Vascular graft infection is a life threatening situation with significant morbidity and mortality. Bacterial graft infection can lead to false aneurysms, bleeding and sepsis. There are a lot of risky situations where grafts can become infected. It is therefore highly desirable to [...] [Read more](#). (This article belongs to the Special Issue [Antimicrobial Silver in Medicinal Applications](#) ([/journal/antibiotics/special\\_issues/antimicrobial\\_silver](#)))▶ [Show Figures](#)[\(antibiotics/antibiotics-11-00386/article\\_deploy/html/images/antibiotics-11-00386-g001-550.jpg\)](#), [\(antibiotics/antibiotics-11-00386/article\\_deploy/html/images/antibiotics-11-00386-g002-550.jpg\)](#), [\(antibiotics/antibiotics-11-00386/article\\_deploy/html/images/antibiotics-11-00386-g003-550.jpg\)](#), [\(antibiotics/antibiotics-11-00386/article\\_deploy/html/images/antibiotics-11-00386-g004-550.jpg\)](#)

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**Prevalence and Antibiotic Susceptibility Trends of Selected *Enterobacteriaceae*, *Enterococci*, and *Candida albicans* in the Subgingival Microbiota of German Periodontitis Patients: A Retrospective Surveillance Study** (2019-6382/11/3/385)by [Karin Jepsen](https://sciprofiles.com/profile/2081917) (https://sciprofiles.com/profile/2081917),[Wolfgang Falk](https://sciprofiles.com/profile/author/ZWVmTjNCmKdOT2paZJRvJJoMUU5ZG1RTXRmUzG6ZXYdWx4UFU5VVVGaz0=) (https://sciprofiles.com/profile/author/ZWVmTjNCmKdOT2paZJRvJJoMUU5ZG1RTXRmUzG6ZXYdWx4UFU5VVVGaz0=),[Friederike Brune](https://sciprofiles.com/profile/author/NGtzU1VuN3Z2WFNkanQ2NWE1Z1dJem9ZN245S1ZQeGZ1VUNWOW9ycVUyUT0=) (https://sciprofiles.com/profile/author/NGtzU1VuN3Z2WFNkanQ2NWE1Z1dJem9ZN245S1ZQeGZ1VUNWOW9ycVUyUT0=),[Raluca Cosgarea](https://sciprofiles.com/profile/1485021) (https://sciprofiles.com/profile/1485021), [Rolf Fimmers](https://sciprofiles.com/profile/author/Y2JXSfDjcUtm2E1RFE3cU9NaFu3dz09) (https://sciprofiles.com/profile/author/Y2JXSfDjcUtm2E1RFE3cU9NaFu3dz09),[Isabelle Bekeredjian-Ding](https://sciprofiles.com/profile/author/U1JvR3RISjd3eEsRQm8rcHhWSk5XN0NjWHhIQXlnMUIPmI9NbXRuUgVt0dsYjFaUG5MZ0kyWkiSSTvtWlht0) (https://sciprofiles.com/profile/author/U1JvR3RISjd3eEsRQm8rcHhWSk5XN0NjWHhIQXlnMUIPmI9NbXRuUgVt0dsYjFaUG5MZ0kyWkiSSTvtWlht0)

and

[Søren Jepsen](https://sciprofiles.com/profile/1952511) (https://sciprofiles.com/profile/1952511)*Antibiotics* 2022, 11(3), 385; <https://doi.org/10.3390/antibiotics11030385> (https://doi.org/10.3390/antibiotics11030385) - 14 Mar 2022

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**Abstract** The periodontal microbiota is ecologically diverse and may facilitate colonization by bacteria of enteric origin (*Enterobacteriaceae*, *Enterococci*) and co-infections with *Candida albicans*, possibly producing subgingival biofilms with high antimicrobial tolerance. This retrospective surveillance study followed periodontitis-associated superinfection profiles in [...] [Read more](#).(This article belongs to the Special Issue [Antibacterial Treatment in Periodontal and Endodontic Therapy](#) ([/journal/antibiotics/special\\_issues/periodontal\\_antibiotics](#)))

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**Clinical Decision Support Systems for Antibiotic Prescribing: An Inventory of Current French Language Tools** (2019-6382/11/3/384)by [Claire Durand](https://sciprofiles.com/profile/1220560) (https://sciprofiles.com/profile/1220560), [Serge Alfandari](https://sciprofiles.com/profile/1967402) (https://sciprofiles.com/profile/1967402),[Guillaume Béraud](https://sciprofiles.com/profile/2110082) (https://sciprofiles.com/profile/2110082),[Rosy Tsopra](https://sciprofiles.com/profile/author/Wkc5STB0bjQvW2FuODNtaEzDZjdxd2x1ZTYzTzhYOHFWb0s3RnhLbmY4UT0=) (https://sciprofiles.com/profile/author/Wkc5STB0bjQvW2FuODNtaEzDZjdxd2x1ZTYzTzhYOHFWb0s3RnhLbmY4UT0=),[François-Xavier Lescure](https://sciprofiles.com/profile/author/a1JJeGZ5SjISzVQTDfORIBFb3RJUJhTzRVdjRFMVBhOXJ3aG9EbTJndz0=) (https://sciprofiles.com/profile/author/a1JJeGZ5SjISzVQTDfORIBFb3RJUJhTzRVdjRFMVBhOXJ3aG9EbTJndz0=) and[Nathan Peiffer-Smadja](https://sciprofiles.com/profile/author/VWNWSEhsUnJMVk2JbCtLbmo4OTV2RzLqWm5QNHNvQjBKdTz0QUFBsk5SzZ0=) (https://sciprofiles.com/profile/author/VWNWSEhsUnJMVk2JbCtLbmo4OTV2RzLqWm5QNHNvQjBKdTz0QUFBsk5SzZ0=)*Antibiotics* 2022, 11(3), 384; <https://doi.org/10.3390/antibiotics11030384> (https://doi.org/10.3390/antibiotics11030384) - 14 Mar 2022

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**Abstract** Clinical decision support systems (CDSSs) are increasingly being used by clinicians to support antibiotic decision making in infection management. However, coexisting CDSSs often target different types of physicians, infectious situations, and patient profiles. The objective of this study was to perform an up-to-date [...] [Read more](#).▶ [Show Figures](#)[\(antibiotics/antibiotics-11-00384/article\\_deploy/html/images/antibiotics-11-00384-g001-550.jpg\)](#)

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**Awareness of Antimicrobial Resistance and Associated Factors among Layer Poultry Farmers in Zambia: Implications for Surveillance and Antimicrobial Stewardship Programs** (2019-6382/11/3/383)by [Steward Mudenda](https://sciprofiles.com/profile/940927) (https://sciprofiles.com/profile/940927),[Sydney Malama](https://sciprofiles.com/profile/author/WFhJZk5LZkN4R05xQzJ6MGdUZy8zcXdIMnhLRU1LQ3F3amlwYzRHVkrIcz0=) (https://sciprofiles.com/profile/author/WFhJZk5LZkN4R05xQzJ6MGdUZy8zcXdIMnhLRU1LQ3F3amlwYzRHVkrIcz0=),[Mussu Munyeme](https://sciprofiles.com/profile/1228324) (https://sciprofiles.com/profile/1228324), [Bernard Mudenda Hang'ombe](https://sciprofiles.com/profile/1656132) (https://sciprofiles.com/profile/1656132),[Geoffrey Mainda](https://sciprofiles.com/profile/author/djIMbGpSNTIHTzBmYTVKY21BN3ZQUwXmWjA5Z3psdEZvNithHWXVPukNQT0=) (https://sciprofiles.com/profile/author/djIMbGpSNTIHTzBmYTVKY21BN3ZQUwXmWjA5Z3psdEZvNithHWXVPukNQT0=),[Otridah Kapona](https://sciprofiles.com/profile/2107518) (https://sciprofiles.com/profile/2107518),[Moses Mukosha](https://sciprofiles.com/profile/author/TjU3VXVibmRwZU1vd3ZaK3NnL2tPYTEycVpjd2VKRnROeno4TmlWQ0RKOD0=) (https://sciprofiles.com/profile/author/TjU3VXVibmRwZU1vd3ZaK3NnL2tPYTEycVpjd2VKRnROeno4TmlWQ0RKOD0=),[Kaunda Yamba](https://sciprofiles.com/profile/975583) (https://sciprofiles.com/profile/975583), [Flavian Nsoni Bumbangi](https://sciprofiles.com/profile/2109781) (https://sciprofiles.com/profile/2109781),[Ruth Lindizyani Mfuno](https://sciprofiles.com/profile/1333209) (https://sciprofiles.com/profile/1333209),[Victor Daka](https://sciprofiles.com/profile/author/TkNlcZJEU015vZd5RGgrbVN5Ung5cUkvUXg0RnRMSVRoamVkaitZWjYwYz0=) (https://sciprofiles.com/profile/author/TkNlcZJEU015vZd5RGgrbVN5Ung5cUkvUXg0RnRMSVRoamVkaitZWjYwYz0=),[Darlington Mwenya](https://sciprofiles.com/profile/author/ZEN1QWhIRzBKakVtSXFUR3c4OWd2b0s5N3dWbitnRXorSHIENDZ0K1JPbz0=) (https://sciprofiles.com/profile/author/ZEN1QWhIRzBKakVtSXFUR3c4OWd2b0s5N3dWbitnRXorSHIENDZ0K1JPbz0=),[Prudence Mpundu](https://sciprofiles.com/profile/1983536) (https://sciprofiles.com/profile/1983536), [Godfrey Siluchali](https://sciprofiles.com/profile/2103428) (https://sciprofiles.com/profile/2103428) and[John Bwalya Muma](https://sciprofiles.com/profile/author/akorEx0VkvZFaWzqZjJocEpSc05Rdz09) (https://sciprofiles.com/profile/author/akorEx0VkvZFaWzqZjJocEpSc05Rdz09)*Antibiotics* 2022, 11(3), 383; <https://doi.org/10.3390/antibiotics11030383> (https://doi.org/10.3390/antibiotics11030383) - 14 Mar 2022

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**Abstract** Antimicrobial resistance (AMR) is a global public health problem affecting animal and human medicine. Poultry production is among the primary sources of income for many Gambians. However, the increased demand for poultry products has led to a subsequent increase in antimicrobial use. This [...] [Read more](#).

(This article belongs to the Special Issue [Antibiotic Resistance: A One-Health Approach](#) ([/journal/antibiotics/special\\_issues/Antibiotic\\_Resistance\\_Health](#)))

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**Antimicrobial Prophylaxis in Neonates and Children Undergoing Dental, Maxillo-Facial or Ear-Nose-Throat (ENT) Surgery: A RAND/UCLA Appropriateness Method Consensus Study** ([/2019-6382/11/3/382](#))

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**Abstract** Surgical site infections (SSIs) represent a potential complication in surgical procedures, mainly because clean/contaminated surgery involves organs that are normally colonized by bacteria. Dental, maxillo-facial and ear-nose-throat (ENT) surgeries are among those that carry a risk of SSIs because the mouth and the [...] [Read more](#).

(This article belongs to the Special Issue [Antimicrobial Use in Pediatrics](#) ([/journal/antibiotics/special\\_issues/antimicrobials\\_use\\_pediatrics](#)))

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**Interprofessional Collaboration between ICU Physicians, Staff Nurses, and Hospital Pharmacists Optimizes Antimicrobial Treatment and Improves Quality of Care and Economic Outcome** ([/2019-6382/11/3/381](#))

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**Abstract** (1) Background: Antibiotic resistance is a worldwide health threat. The WHO published a global strategic plan in 2001 to contain antimicrobial resistance. In the following year, a workshop identified crucial barriers to the implementation of the strategy, e.g., underdeveloped health infrastructures and the [...] [Read more](#).

(This article belongs to the Special Issue [Antimicrobial Agents Used in Intensive Care Unit](#) ([/journal/antibiotics/special\\_issues/antibiotic\\_used](#)))

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**Antimicrobial Resistance, Biofilm Formation, and Virulence Genes in *Enterococcus* Species from Small Backyard Chicken Flocks** ([/2019-6382/11/3/380](#))

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*Antibiotics* **2022**, *11*(3), 380; [https://doi.org/10.3390/antibiotics11030380](#) ([https://doi.org/10.3390/antibiotics11030380](#)) - 13 Mar 2022

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**Abstract** Backyard birds are small flocks that are more common in developing countries. They are used for poultry meat and egg production. However, they are also implicated in the maintenance and transmission of several zoonotic diseases, including multidrug-resistant bacteria. Enterococci are one of the [...] [Read more](#).

(This article belongs to the Special Issue [Spread of Multidrug-Resistant Microorganisms](#) ([/journal/antibiotics/special\\_issues/spread\\_MDR](#)))

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**How COVID-19 Has Influenced Public Interest in Antimicrobials, Antimicrobial Resistance and Related Preventive Measures: A Google Trends Analysis of Italian Data** ([/2019-6382/11/3/379](#))

by [Andrea Maugeri](#) ([https://sciprofiles.com/profile/401743](#)), [Martina Barchitta](#) ([https://sciprofiles.com/profile/598909](#)),

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*Antibiotics* **2022**, *11*(3), 379; <https://doi.org/10.3390/antibiotics11030379> (<https://doi.org/10.3390/antibiotics11030379>) - 13 Mar 2022

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**Abstract** Google Trends analytics is an innovative way to evaluate public interest in antimicrobial resistance (AMR) and related preventive measures. In the present study, we analyzed Google Trends data in Italy, from 2016 to 2021. A joinpoint analysis was performed to assess whether and [...] [Read more](#).

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**Antimicrobial Stewardship Programs: A Review of Strategies to Avoid Polymyxins and Carbapenems Misuse in Low Middle-Income Countries** (*/2019-6382/11/3/378*)

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*Antibiotics* **2022**, *11*(3), 378; <https://doi.org/10.3390/antibiotics11030378> (<https://doi.org/10.3390/antibiotics11030378>) - 12 Mar 2022

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**Abstract** Antibiotics misuse and overuse are concerning issues worldwide, especially in low middle-income countries. These practices contribute to the increasing rates of antimicrobial resistance. One efficient strategy to avoid them is antimicrobial stewardship programs. In this review, we focus on the possible approaches to [...] [Read more](#). (This article belongs to the Special Issue **Key Collaborations between Antimicrobial Stewardship & Clinical Microbiology – Focus on Diagnostic Stewardship** ([/journal/antibiotics/special\\_issues/Diagnostic\\_stew](#)))

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**Comparison of Six Phenotypic Assays with Reference Methods for Assessing Colistin Resistance in Clinical Isolates of Carbapenemase-Producing Enterobacterales: Challenges and Opportunities** (*/2019-6382/11/3/377*)

by [Annamária Földes](#) (<https://sciprofiles.com/profile/1600777>), [Edit Székely](#) (<https://sciprofiles.com/profile/author/QjlsY3JUajhtOXhqR0VXSjh0MjJSElUaHN3NXg5Y1c2cU5tVTJNeUZUVT0=>), [Septimiu Toader Voidăzan](#) (<https://sciprofiles.com/profile/1106366>) and [Minodora Dobreanu](#) (<https://sciprofiles.com/profile/1867781>)

*Antibiotics* **2022**, *11*(3), 377; <https://doi.org/10.3390/antibiotics11030377> (<https://doi.org/10.3390/antibiotics11030377>) - 11 Mar 2022

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**Abstract** The global escalation of severe infections due to carbapenemase-producing Enterobacterales (CPE) isolates has prompted increased usage of parenteral colistin. Considering the reported difficulties in assessing their susceptibility to colistin, the purpose of the study was to perform a comparative evaluation of six phenotypic [...] [Read more](#).

(This article belongs to the Special Issue **Carbapenemase-Producing Enterobacterales** ([/journal/antibiotics/special\\_issues/Carbapenemase](#)))

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**Does the COVID Pandemic Modify the Antibiotic Resistance of Uropathogens in Female Patients? A New Storm?** (*/2019-6382/11/3/376*)

by [Cristian Mareş](#) (<https://sciprofiles.com/profile/1155799>), [Răzvan-Cosmin Petca](#) (<https://sciprofiles.com/profile/934908>), [Aida Petca](#) (<https://sciprofiles.com/profile/1141516>), [Răzvan-Ionuț Popescu](#) (<https://sciprofiles.com/profile/1949532>) and [Viorel Jinga](#) (<https://sciprofiles.com/profile/author/T0JDUDZTUWsv0VUMzcEFsQ1NscjVQNHFbnbdYTy9sUzc3MmFTdFdVZHNVRT0=>)

*Antibiotics* **2022**, *11*(3), 376; <https://doi.org/10.3390/antibiotics11030376> (<https://doi.org/10.3390/antibiotics11030376>) - 10 Mar 2022

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**Abstract** Urinary tract infections (UTIs) represent a common pathology among female patients, leading to overprescribing antibiotics, globally. The emergence of the COVID-19 pandemic has dramatically increased the incidence of this particular viral pneumonia with secondary bacterial superinfection, resulting in continuous therapeutic or prophylactic recommendations [...] [Read more](#).

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**Effectiveness and Safety of Ceftriaxone Compared to Standard of Care for Treatment of Bloodstream Infections Due to Methicillin-Susceptible *Staphylococcus aureus*: A Systematic Review and Meta-Analysis** (*/2019-6382/11/3/375*)

by [Yazed Saleh Alsowaida](#) (<https://sciprofiles.com/profile/2038410>), [Gregorio Benitez](#) (<https://sciprofiles.com/profile/author/anorOUQ3VEtHOTdCcnNaMInqK0kwNXvWdN6NGhqKk5nblidWVd6eXZKQT0=>), [Khalid Bin Saleh](#) (<https://sciprofiles.com/profile/author/ZGIGbXVrK1pRcEE5T2hQWnR4MWWacUIGN09CNU9Ea3NIOE5QRmEwNEdZdz0=>), [Thamer A. Almanqour](#) (<https://sciprofiles.com/profile/2056243>), [Fadi Shehadeh](#) (<https://sciprofiles.com/profile/2067754>) and [Eleftherios Mylonakis](#) (<https://sciprofiles.com/profile/1969976>)

*Antibiotics* **2022**, *11*(3), 375; <https://doi.org/10.3390/antibiotics11030375> (<https://doi.org/10.3390/antibiotics11030375>) - 10 Mar 2022

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**Abstract** (1) Background: Ceftriaxone is a potential alternative for the treatment of methicillin-susceptible *Staphylococcus aureus* (MSSA) bloodstream infections (BSIs) in acute care and outpatient parenteral antimicrobial therapy (OPAT) settings. We evaluated the effectiveness and safety of ceftriaxone for the treatment of MSSA BSIs. (2) [...] [Read more](#).

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**A One Health Approach Molecular Analysis of *Staphylococcus aureus* Reveals Distinct Lineages in Isolates from Miranda Donkeys (*Equus asinus*) and Their Handlers** (2019-6382/11/3/374)

by [Vanessa Silva](https://sciprofiles.com/profile/954507) (<https://sciprofiles.com/profile/954507>), [Cláudia Alfarela](https://sciprofiles.com/profile/2100081) (<https://sciprofiles.com/profile/2100081>), [Manuela Caniça](https://sciprofiles.com/profile/793604) (<https://sciprofiles.com/profile/793604>), [Vera Manageiro](https://sciprofiles.com/profile/255396) (<https://sciprofiles.com/profile/255396>), [Miguel Nóvoa](https://sciprofiles.com/profile/author/QVivUkxiWm9OYNBUZE4TGp2b2NRWFFja1d6Q0gxK1BxY0pBYXJUbKrlc0) (<https://sciprofiles.com/profile/author/QVivUkxiWm9OYNBUZE4TGp2b2NRWFFja1d6Q0gxK1BxY0pBYXJUbKrlc0>), [Belen Leiva](https://sciprofiles.com/profile/author/eTLaWtqaWVNVkFWcm40QVNEbkNoQU9LZmRLU2s3b1FnQ0dVZHd0SWpQTT0) (<https://sciprofiles.com/profile/author/eTLaWtqaWVNVkFWcm40QVNEbkNoQU9LZmRLU2s3b1FnQ0dVZHd0SWpQTT0>), [Maria Kress](https://sciprofiles.com/profile/author/cHFuZEcr1pXVnhpemu4ZE1XUDVKOGZCVtBays0N04wSXdoSFhKVDBoRT0) (<https://sciprofiles.com/profile/author/cHFuZEcr1pXVnhpemu4ZE1XUDVKOGZCVtBays0N04wSXdoSFhKVDBoRT0>), [José Luis Capelo](https://sciprofiles.com/profile/397418) (<https://sciprofiles.com/profile/397418>), [Patricia Poeta](https://sciprofiles.com/profile/768348) (<https://sciprofiles.com/profile/768348>) and [Gilberto Igrejas](https://sciprofiles.com/profile/32683) (<https://sciprofiles.com/profile/32683>)

*Antibiotics* **2022**, *11*(3), 374; <https://doi.org/10.3390/antibiotics11030374> (<https://doi.org/10.3390/antibiotics11030374>) - 10 Mar 2022

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**Abstract** Donkeys (*Equus asinus*) are in decline in Europe. Occupational exposure to farm animals has been associated with increased staphylococci carriage. We aimed to isolate *S. aureus* and coagulase-negative staphylococci (CoNS) from donkeys and handlers and characterize the antimicrobial resistance profiles and [...] [Read more](#). (This article belongs to the Special Issue [Antibiotics and Alternative Treatments in Zoonosis Therapy](#) ([/journal/antibiotics/special\\_issues/Zoonosis](#)))

Open Access Case Report

**Meropenem/Vaborbactam Plus Aztreonam as a Possible Treatment Strategy for Bloodstream Infections Caused by Ceftazidime/Avibactam-Resistant *Klebsiella pneumoniae*: A Retrospective Case Series and Literature Review** (2019-6382/11/3/373)

by [Alessandra Belati](https://sciprofiles.com/profile/2065074) (<https://sciprofiles.com/profile/2065074>), [Davide Fiore Bavaro](https://sciprofiles.com/profile/1114099) (<https://sciprofiles.com/profile/1114099>), [Lucia Diella](https://sciprofiles.com/profile/2070599) (<https://sciprofiles.com/profile/2070599>), [Nicolo De Gennaro](https://sciprofiles.com/profile/author/Tz3FYUINQT21ybWVRUHFOT05JS0pySzN6U1hnY2dnUS9CemZOWHVyN1pvaz0) (<https://sciprofiles.com/profile/author/Tz3FYUINQT21ybWVRUHFOT05JS0pySzN6U1hnY2dnUS9CemZOWHVyN1pvaz0>), [Francesco Di Gennaro](https://sciprofiles.com/profile/1145021) (<https://sciprofiles.com/profile/1145021>) and [Annalisa Saracino](https://sciprofiles.com/profile/1405154) (<https://sciprofiles.com/profile/1405154>)

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**Abstract** Objectives: The aim of this study was to describe our experience of a combination treatment including meropenem/vaborbactam (M/V) plus aztreonam (ATM) for bloodstream infections (BSIs) due to ceftazidime/avibactam-resistant *Klebsiella pneumoniae* (CAZ/AVI-R-Kp), for which gene typing was not available at the time [...] [Read more](#). (This article belongs to the Special Issue [Multi-Drug Resistant Gram-Negative Microorganisms: Epidemiology, Treatment and Alternative Approach](#) ([/journal/antibiotics/special\\_issues/mutidrug\\_resistant](#)))

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**Clinical and Microbiological Effects of an Antimicrobial Stewardship Program in Urology—A Single Center Before-After Study** (2019-6382/11/3/372)

by [Oana Johoan](https://sciprofiles.com/profile/2038190) (<https://sciprofiles.com/profile/2038190>), [Daniel Tahedi](https://sciprofiles.com/profile/author/Z20wV3FITDIvQnhDN2VaLzYyZWZ0UdDyYrVRVZ01KSGJ1eDRoVmZXVFE0Yz0) (<https://sciprofiles.com/profile/author/Z20wV3FITDIvQnhDN2VaLzYyZWZ0UdDyYrVRVZ01KSGJ1eDRoVmZXVFE0Yz0>), [Madita Flintrop](https://sciprofiles.com/profile/author/ak11TGdSUnd6dJR5aWF1Y3pXL1MTUpUaEg3NWIqMVd5d3V2bEpubDIORT0) (<https://sciprofiles.com/profile/author/ak11TGdSUnd6dJR5aWF1Y3pXL1MTUpUaEg3NWIqMVd5d3V2bEpubDIORT0>), [Thorben Winkler](https://sciprofiles.com/profile/author/TWRoUXJ0OWZCWXBLeIQyUkVkbEJ6Q2k0S3pVd3i0T0RqbVgYVJLzrUT0) (<https://sciprofiles.com/profile/author/TWRoUXJ0OWZCWXBLeIQyUkVkbEJ6Q2k0S3pVd3i0T0RqbVgYVJLzrUT0>), [Ruxandra Sabau](https://sciprofiles.com/profile/author/VIFuaGfoZ1gza3RjT3VrSE9TVVhKdW5LdQzSWJPUEVYUytzVpZyMzKND0) (<https://sciprofiles.com/profile/author/VIFuaGfoZ1gza3RjT3VrSE9TVVhKdW5LdQzSWJPUEVYUytzVpZyMzKND0>), [Tobias Welte](https://sciprofiles.com/profile/785719) (<https://sciprofiles.com/profile/785719>), [Markus A. Kuczyk](https://sciprofiles.com/profile/author/TzFPdmJY2zXKaHdNZnhieDQRbTZZQ2Q3N0xmV2hWUK2aTM4U1VPNGRTWT0) (<https://sciprofiles.com/profile/author/TzFPdmJY2zXKaHdNZnhieDQRbTZZQ2Q3N0xmV2hWUK2aTM4U1VPNGRTWT0>), [Ralf-Peter Vonberg](https://sciprofiles.com/profile/author/Q2pSbnizS0dncENhDhDWXBhaVpSdkiEUUVBR3i0WmZ1WV1bXhYUmgwYz0) (<https://sciprofiles.com/profile/author/Q2pSbnizS0dncENhDhDWXBhaVpSdkiEUUVBR3i0WmZ1WV1bXhYUmgwYz0>) and [Jessica Rademacher](https://sciprofiles.com/profile/1478222) (<https://sciprofiles.com/profile/1478222>)

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**Abstract** Antimicrobial resistance is a major public health issue caused by antibiotic overuse and misuse. Antimicrobial stewardship (AMS) has been increasingly endorsed worldwide, but its effect has been studied scarcely in urologic settings. A before-after study was performed from 2018 through 2020 to evaluate [...] [Read more](#). (This article belongs to the Special Issue [The Optimization of Antimicrobial Prescribing and Stewardship](#) ([/journal/antibiotics/special\\_issues/optimization\\_antimicrobial](#)))

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Open Access Article

**Facing the Increased Prevalence of Antibiotic-Resistant *M. tuberculosis*: Exploring the Feasibility of Realising Koch's Aspiration of Immunotherapy of Tuberculosis** (2019-6382/11/3/371)

by [Peter A. Bretscher](https://sciprofiles.com/profile/1386293) (<https://sciprofiles.com/profile/1386293>)

*Antibiotics* **2022**, *11*(3), 371; <https://doi.org/10.3390/antibiotics11030371> (<https://doi.org/10.3390/antibiotics11030371>) - 10 Mar 2022

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**Abstract** Koch attempted to treat tuberculosis in the late 1800s by administering an antigenic extract derived from the pathogen to patients. He hoped to bolster the patient's protective immunity. The treatment had diverse results. In some, it improved the patient's condition and in others [...] [Read more](#). (This article belongs to the Special Issue [Alternative Approaches to Treating Antimicrobial Resistant Infections](#) ([/journal/antibiotics/special\\_issues/alternative\\_antibiotics](#)))

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Open Access Review

**Overview of the Clinical and Molecular Features of *Legionella pneumophila*: Focus on Novel Surveillance and Diagnostic Strategies** (2019-6382/11/3/370)

by [Giuseppe Gattuso](https://sciprofiles.com/profile/1328756) (<https://sciprofiles.com/profile/1328756>), [Roberta Rizzo](https://sciprofiles.com/profile/1763268) (<https://sciprofiles.com/profile/1763268>), [Alessandro Lavoro](https://sciprofiles.com/profile/author/OUdUSHduRDdQQW5LWmtCZVJna2dhN3RIMVURn1ZUWJzNm1RWnRoQIFLZz0) (<https://sciprofiles.com/profile/author/OUdUSHduRDdQQW5LWmtCZVJna2dhN3RIMVURn1ZUWJzNm1RWnRoQIFLZz0>), [Vincenzoleo Spoto](https://sciprofiles.com/profile/2094460) (<https://sciprofiles.com/profile/2094460>), [Giuseppe Porciello](https://sciprofiles.com/profile/1352623) (<https://sciprofiles.com/profile/1352623>), [Concetta Montagnese](https://sciprofiles.com/profile/690157) (<https://sciprofiles.com/profile/690157>), [Diana Cinà](https://sciprofiles.com/profile/author/N004L1VCQ1VwLzdgQTVRNkhiZjloRkxlb2hUcm4wb3gydVBPQWhCbUsyND0) (<https://sciprofiles.com/profile/author/N004L1VCQ1VwLzdgQTVRNkhiZjloRkxlb2hUcm4wb3gydVBPQWhCbUsyND0>), [Alessia Cosentino](https://sciprofiles.com/profile/author/WDRSSmRWYzNOVFZPeWRVvKpWaniZK0RBMVYyRnJPU2w4U3VtBklydVJEWT0) (<https://sciprofiles.com/profile/author/WDRSSmRWYzNOVFZPeWRVvKpWaniZK0RBMVYyRnJPU2w4U3VtBklydVJEWT0>), [Cinzia Lombardo](https://sciprofiles.com/profile/1860517) (<https://sciprofiles.com/profile/1860517>), [Maria Lina Mezzatesta](https://sciprofiles.com/profile/1212596) (<https://sciprofiles.com/profile/1212596>) and [Mario Salmeri](https://sciprofiles.com/profile/1719047) (<https://sciprofiles.com/profile/1719047>)

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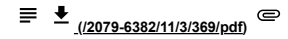
**Abstract** *Legionella pneumophila* (*L. pneumophila*) is one of the most threatening nosocomial pathogens. The implementation of novel and more effective surveillance and diagnostic strategies is mandatory to prevent the occurrence of legionellosis outbreaks in hospital environments. On these bases, the present review [...] [Read more](#).

(This article belongs to the Special Issue **Opportunistic Infections in Hospital Environments: Microbial Resistance and Novel Surveillance and Diagnostic Strategies** ([/journal/antibiotics/special\\_issues/oppportunistic\\_infections](https://doi.org/10.3390/antibiotics/special_issues/oppportunistic_infections).)

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**Screening Repurposed Antiviral Small Molecules as Antimycobacterial Compounds by a Lux-Based phoP Promoter-Reporter Platform** ([/2019-6382/11/3/369](https://doi.org/10.3390/antibiotics11030369))

by [Li Zhu](https://sciprofiles.com/profile/author/ZTVGbtDkTEdmnknYnllenFNV3JGSUZ5MnZITERITTYWnExV09kcjBGGQT0=) (<https://sciprofiles.com/profile/author/ZTVGbtDkTEdmnknYnllenFNV3JGSUZ5MnZITERITTYWnExV09kcjBGGQT0=>), [Annie Wing-Tung Lee](https://sciprofiles.com/profile/author/2061674) (<https://sciprofiles.com/profile/author/2061674>), [Kelvin Ka-Lok Wu](https://sciprofiles.com/profile/author/1071770) (<https://sciprofiles.com/profile/author/1071770>), [Peng Gao](https://sciprofiles.com/profile/author/2081858) (<https://sciprofiles.com/profile/author/2081858>), [Kingsley King-Gee Tam](https://sciprofiles.com/profile/author/MjVnNW9OWHh0WWw4TUxjd1RLaDhIbWFR0GxHswPjDngxK114b09tY2c3Yz0=) (<https://sciprofiles.com/profile/author/MjVnNW9OWHh0WWw4TUxjd1RLaDhIbWFR0GxHswPjDngxK114b09tY2c3Yz0=>), [Rahim Rajwani](https://sciprofiles.com/profile/author/1845079) (<https://sciprofiles.com/profile/author/1845079>), [Galata Chala Chaburte](https://sciprofiles.com/profile/author/OEdRbXN6d05id2FFtkdDNGVEUkM3Um9ITDdSazJoREhVWHdPWUtlcmRLUT0=) (<https://sciprofiles.com/profile/author/OEdRbXN6d05id2FFtkdDNGVEUkM3Um9ITDdSazJoREhVWHdPWUtlcmRLUT0=>), [Timothy Ting-Leung Ng](https://sciprofiles.com/profile/author/VmtrcXQvL203dyt1enp4RktHS282NWpUdE95UGhvQJn1eGZFenBOYzRxYz0=) (<https://sciprofiles.com/profile/author/VmtrcXQvL203dyt1enp4RktHS282NWpUdE95UGhvQJn1eGZFenBOYzRxYz0=>), [Chloe Toi-Mei Chan](https://sciprofiles.com/profile/author/QXRkYjFGU3pzVUFRRjE0ZnJMaU9TRENCYkRzQzFoaWtjcXR0RssvNFgvND0=) (<https://sciprofiles.com/profile/author/QXRkYjFGU3pzVUFRRjE0ZnJMaU9TRENCYkRzQzFoaWtjcXR0RssvNFgvND0=>), [Hiu Yin Lao](https://sciprofiles.com/profile/author/aG1kWnVIY2ptcmdQVXc1OGqxU0krZHZNuStiQ0VHSHU5cnQL0M3MnQwdz0=) (<https://sciprofiles.com/profile/author/aG1kWnVIY2ptcmdQVXc1OGqxU0krZHZNuStiQ0VHSHU5cnQL0M3MnQwdz0=>), [Wing Cheong Yam](https://sciprofiles.com/profile/author/SVBnk2p6NXFuWVDVYy9ZMUNDL1Rqdz09) (<https://sciprofiles.com/profile/author/SVBnk2p6NXFuWVDVYy9ZMUNDL1Rqdz09>), [Richard Yi-Tsun Kao](https://sciprofiles.com/profile/author/MHdPSEpGRkFJeFlwZGJsa1hxbE9jQOT09) (<https://sciprofiles.com/profile/author/MHdPSEpGRkFJeFlwZGJsa1hxbE9jQOT09>) and [Gilman Kit Hang Siu](https://sciprofiles.com/profile/author/2063124) (<https://sciprofiles.com/profile/author/2063124>)

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**Abstract** The emergence of multidrug-resistant strains and hyper-virulent strains of *Mycobacterium tuberculosis* are big therapeutic challenges for tuberculosis (TB) control. Repurposing bioactive small-molecule compounds has recently become a new therapeutic approach against TB. This study aimed to identify novel anti-TB agents from a library [...]. [Read more](#).

(This article belongs to the Topic **Novel Antimicrobial Agents: Discovery, Design and New Therapeutic Strategies** ([/topics/anti\\_agent](https://doi.org/10.3390/antibiotics11030369)))

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Open Access Article



**Comparison of Immediate Blanket Treatment versus a Delayed Pathogen-Based Treatment Protocol for Clinical Mastitis Using an On-Farm Culture Test at a Commercial German Dairy Farm** ([/2019-6382/11/3/368](https://doi.org/10.3390/antibiotics11030368))

by [Stefan Borchardt](https://sciprofiles.com/profile/author/1157307) (<https://sciprofiles.com/profile/author/1157307>) and [Wolfgang Heuwieser](https://sciprofiles.com/profile/author/ZIErMwPwUTWhSaWIHZFFoeWFOneHsdmlsTFhzUIR4QXk1NUJsdGM0MXN4dz0=) (<https://sciprofiles.com/profile/author/ZIErMwPwUTWhSaWIHZFFoeWFOneHsdmlsTFhzUIR4QXk1NUJsdGM0MXN4dz0=>)

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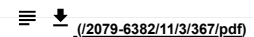
**Abstract** The objective of this study was to compare immediate intramammary antimicrobial treatment of mild and moderate cases of clinical mastitis (CM) with a selective treatment protocol based on on-farm culture results using Accumast<sup>®</sup>. The study was conducted at a 2600 cow [...]. [Read more](#).

(This article belongs to the Special Issue **Treatment of Mastitis in Dairy Cattle** ([/journal/antibiotics/special\\_issues/Mastitis](https://doi.org/10.3390/antibiotics/special_issues/Mastitis)))

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Open Access Review



**Antimicrobial Stewardship Using Biomarkers: Accumulating Evidence for the Critically Ill** ([/2019-6382/11/3/367](https://doi.org/10.3390/antibiotics11030367))

by [Evdoxia Kyriazopoulou](https://sciprofiles.com/profile/author/2081790) (<https://sciprofiles.com/profile/author/2081790>) and [Evangelos J. Giamarellos-Bourboulis](https://sciprofiles.com/profile/author/2081984) (<https://sciprofiles.com/profile/author/2081984>)

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**Abstract** This review aims to summarize current progress in the management of critically ill, using biomarkers as guidance for antimicrobial treatment with a focus on antimicrobial stewardship. Accumulated evidence from randomized clinical trials (RCTs) and observational studies in adults for the biomarker-guided antimicrobial treatment [...]. [Read more](#).

(This article belongs to the Special Issue **Antimicrobial Therapy in Intensive Care Unit** ([/journal/antibiotics/special\\_issues/Antimicrobial\\_ICU](https://doi.org/10.3390/antibiotics/special_issues/Antimicrobial_ICU)))

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**Distribution of Carbapenemase Genes among Carbapenem-Non-Susceptible *Acinetobacter baumannii* Blood Isolates in Indonesia: A Multicenter Study** ([/2019-6382/11/3/366](https://doi.org/10.3390/antibiotics11030366))

by [Dewi Anggraini](https://sciprofiles.com/profile/author/cGNIMG9TSjYjVMVRRYt9vbWRIYktXWC9weJzNR01KdTRZZ295YtJmYnVITE5YSjVodUdadUxWSHpDTmkvVG9QeA=) (<https://sciprofiles.com/profile/author/cGNIMG9TSjYjVMVRRYt9vbWRIYktXWC9weJzNR01KdTRZZ295YtJmYnVITE5YSjVodUdadUxWSHpDTmkvVG9QeA=>)

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Antibiotics 2022, 11(3), 366; <https://doi.org/10.3390/antibiotics11030366> (https://doi.org/10.3390/antibiotics11030366) - 09 Mar 2022

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**Abstract** Carbapenem non-susceptible *Acinetobacter baumannii* (CNSAB) is an important pathogen that causes nosocomial bacteremia among critically ill patients worldwide. The magnitude of antibiotic resistance of *A. baumannii* in Indonesia is expected to be significant; however, the data available are limited. The aim of this study was to determine the prevalence and species diversity of antibiotic-resistant *A. baumannii* in Indonesia. (This article belongs to the Special Issue [Global Spread of Antibiotics](#) ([Journal/antibiotics/special\\_issues/Global\\_Spread](#)))

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Open Access Article

**Multidrug-Resistant Methicillin-Resistant Coagulase-Negative Staphylococci in Healthy Poultry Slaughtered for Human Consumption** ([/2019-6382/11/3/365](#))

by [Vanessa Silva](#) (<https://sciprofiles.com/profile/954507>), [Manuela Caniça](#) (<https://sciprofiles.com/profile/793604>), [Eugénia Ferreira](#) (<https://sciprofiles.com/profile/author/aWpDT2lqUHQ0FqeHU1dEJ2UzBiYkpDYmHEMFE0NEhFblZZQnUvREZTWWYrdnVaUXlBajBibEV1Lto5YTVQdQ==>)

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Antibiotics 2022, 11(3), 365; <https://doi.org/10.3390/antibiotics11030365> (https://doi.org/10.3390/antibiotics11030365) - 09 Mar 2022

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**Abstract** Coagulase-negative staphylococci are commensals that are known to be prevalent in most environments, and they are also an important reservoir of antimicrobial-resistant genes. Staphylococcal infections in animal husbandry are a high economic burden. Thus, we aimed to determine the prevalence and species diversity of antimicrobial-resistant staphylococci in animal husbandry. (This article belongs to the Special Issue [Monitoring and Surveillance of Veterinary Antimicrobial Use and Antibiotic Resistance in Animals](#) ([Journal/antibiotics/special\\_issues/veterinary\\_antimicrobial](#)))

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**Cinnamaldehyde Increases the Survival of Mice Submitted to Sepsis Induced by Extraintestinal Pathogenic *Escherichia coli*** ([/2019-6382/11/3/364](#))

by [Isabella F. S. Figueiredo](#) (<https://sciprofiles.com/profile/author/SWM3cTZ5SG1mWGRwMGNlVG1jTVFDtKNCSjZfZ3A2THntTkU2W9UdmFIST0=>), [Lorena G. Araújo](#) (<https://sciprofiles.com/profile/2099297>), [Raissa G. Assunção](#) (<https://sciprofiles.com/profile/author/eDRub2o4Zkx1KzdiUnRpTWJhWVFGY0tWnzdwWjUvdVBUOU1LL2luaIhdQ0T0=>), [Itaynara L. Dutra](#) (<https://sciprofiles.com/profile/author/d2swVU9OZEJVUnU2YUuJaGk5b292YURJd0VTUXhBRTc2dzFEbENuZWlybz0=>), [Johnny N. Nascimento](#) (<https://sciprofiles.com/profile/author/dUdEV1RNQ2IOTzJKMDRKRfNTKzRrV0iUnV0SmtMWjJRrTmVxK250ZkpKVT0=>), [Fabrícia S. Rego](#) (<https://sciprofiles.com/profile/author/N2hgGQ12XUno0ajl6em9U5ipBSmhhZ1hYM1laa2JKQmJJMnNGL20wOGVKWT0=>), [Carolina S. Rolim](#) (<https://sciprofiles.com/profile/author/ZE0wL01nT3FWUzNOQnlwOGNvczERWXRJb2INQzhYMjQrRUIt2dZ0FdaND0=>), [Leylane S. R. Alves](#) (<https://sciprofiles.com/profile/author/Y1ZQRkMtDxOwR2t0ZEptS2JnTDI2OFgyUXFjSHpFL1ppMG1xQnRXbUozND0=>), [Mariana A. Frazão](#) (<https://sciprofiles.com/profile/author/TGxRaU45QVJQem5BWDhtZUkyT3oxdlNdXVlbnlWSkE5cXpLcW5lWG5saz0=>), [Samilly F. Cadete](#) (<https://sciprofiles.com/profile/1619355>), [Luis Cláudio N. da Silva](#) (<https://sciprofiles.com/profile/27161>), [Joicy C. de Sá](#) (<https://sciprofiles.com/profile/410933>), [Eduardo M. de Sousa](#) (<https://sciprofiles.com/profile/404210>), [Waldir P. Elias](#) (<https://sciprofiles.com/profile/983111>), [Flávia R. F. Nascimento](#) (<https://sciprofiles.com/profile/author/NU5EaG1KNHJHM5zUWpTNHl2bkt4UG1wODNDNGzPNlBodHBVZ0c0bkVoST0=>) and [Afonso G. Abreu](#) (<https://sciprofiles.com/profile/969500>)

Antibiotics 2022, 11(3), 364; <https://doi.org/10.3390/antibiotics11030364> (https://doi.org/10.3390/antibiotics11030364) - 09 Mar 2022

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**Abstract** Several natural products have been investigated for their bactericidal potential, among these, cinnamaldehyde. In this study, we aimed to evaluate the activity of cinnamaldehyde in the treatment of animals with sepsis induced by extraintestinal pathogenic *E. coli*. Initially, the *E. coli* F5 strain was used. (This article belongs to the Special Issue [Antimicrobial and Anti-infective Activity of Natural Products](#) ([Journal/antibiotics/special\\_issues/Anti\\_Natural](#)))

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**Performance of Novel Antimicrobial Protein Bg\_9562 and In Silico Predictions on Its Properties with Reference to Its Antimicrobial Efficiency against *Rhizoctonia solani*** ([/2019-6382/11/3/363](#))

by [Pranathi Karnati](#) (<https://sciprofiles.com/profile/2035501>), [Rekha Gonguntala](#) (<https://sciprofiles.com/profile/author/cXhqNUNrUTNxY3ZscjBKazY5ajdEY3ZENXpsemZTYS9TSVhNMIFNOG5YYz0=>), [Kalyani M. Barbadikar](#) (<https://sciprofiles.com/profile/1001904>), [Divya Mishra](#) (<https://sciprofiles.com/profile/author/cU1hVTV5Rm4yc2J5bWtLMO4M4Smx2d3Z4QTdpa0Y1eUZlZkNUaUdGRGRvWT0=>), [Gopaljee Jha](#) (<https://sciprofiles.com/profile/author/MDU4NUF3citlVvZxS0FxlZFoOWo3b0hOYnVhR3AvbWN5cmtRcGFra1pkdz0=>), [Vellaisamy Prakasham](#) (<https://sciprofiles.com/profile/author/SEVMOGHDOC9iUlizaWJLTmV4RzROdjBpNjTY0U5Q3l2WkFWQmRqMEdVST0=>), [Priyanka Chilumula](#) (<https://sciprofiles.com/profile/author/YU1ZOUdtVhIsN3lPOTRMamJVQJ2ESHk3UTJJEVARE5EVlVDKzBd0SDpDRT0=>), [Hajira Shaik](#) (<https://sciprofiles.com/profile/author/S2tsY053TUFyQi9NR0d1TEptS2V1UmU3cTJDVjhqSlkzRDVVY1J2eHhoQT0=>), [Maruthi Pesari](#) (<https://sciprofiles.com/profile/author/YzJGZUzSaW9xRGZkTWdkaEd0d2IvcTFJTngvWHlpeFBLMjJYQWppelZVdz0=>), [Raman Meenakshi Sundaram](#) (<https://sciprofiles.com/profile/1000291>) and [Kannan Chinnaswami](#) (<https://sciprofiles.com/profile/2034713>)

Antibiotics 2022, 11(3), 363; <https://doi.org/10.3390/antibiotics11030363> (https://doi.org/10.3390/antibiotics11030363) - 08 Mar 2022

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**Abstract** Bg\_9562 is a potential broad-spectrum antifungal effector protein derived from the bacteria *Burkholderia gladioli* strain NGJ1 and is effective against *Rhizoctonia solani*, the causal agent of sheath blight in rice. In the present study, in vitro antifungal assays showed that Bg\_9562 was effective against *Rhizoctonia solani*. (This article belongs to the Special Issue [Antimicrobial Peptides and How to Find Them](#) ([Journal/antibiotics/special\\_issues/Antimicro\\_Peptide](#)))





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### Use of Antimicrobials for Bloodstream Infections in the Intensive Care Unit, a Clinically Oriented Review (2079-6382/11/3/362)

by [Alexis Tabah](#) (<https://sciprofiles.com/profile/2044896>), [Jeffrey Lipman](#) (<https://sciprofiles.com/profile/639311>),  
[François Barbier](#) (<https://sciprofiles.com/profile/author/dUitMnjZGtuc3NwV21Jb2dCTIIXU01RNS9tS1F4K0N3SXNWcEJ0TGdCWT0=>),  
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[Jean-François Timsit](#) (<https://sciprofiles.com/profile/2001045>) and

on behalf of the ESCMID Study Group for Infections in Critically Ill Patients—ESGCI

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*Antibiotics* 2022, 11(3), 362; <https://doi.org/10.3390/antibiotics11030362> (<https://doi.org/10.3390/antibiotics11030362>) - 08 Mar 2022


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**Abstract** Bloodstream infections (BSIs) in critically ill patients are associated with significant mortality. For patients with septic shock, antibiotics should be administered within the hour. Probabilistic treatment should be targeted to the most likely pathogens, considering the source and risk factors for bacterial resistance [...]. [Read more.](#)  
 (This article belongs to the Special Issue [Antimicrobial Therapy in Intensive Care Unit](#) ([/journal/antibiotics/special\\_issues/Antimicrobial\\_ICU](#)))

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### Citrus bergamia: Kinetics of Antimicrobial Activity on Clinical Isolates (2079-6382/11/3/361)

by [Angela Quirino](#) (<https://sciprofiles.com/profile/1660724>), [Valeria Giorgi](#) (<https://sciprofiles.com/profile/2068080>),  
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*Antibiotics* 2022, 11(3), 361; <https://doi.org/10.3390/antibiotics11030361> (<https://doi.org/10.3390/antibiotics11030361>) - 08 Mar 2022

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**Abstract** Background: The inappropriate use of antibiotics has increased selective pressure and the spread of multi-drug-resistant (MDR) pathogens, which reduces the possibility of effective treatment. A potential alternative therapeutic approach may be represented by essential oils, such as the distilled extract of bergamot ( [...]). [Read more.](#)  
 (This article belongs to the Special Issue [Antimicrobial, Antiviral and Anticancer Activities of Natural Products](#) ([/journal/antibiotics/special\\_issues/antimicrobial\\_antibiotics](#)))

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### Influence of Sub-Inhibitory Dosage of Cefotaxime on Multidrug Resistant *Staphylococcus haemolyticus* Isolated from Sick Neonatal Care Unit (2079-6382/11/3/360)

by [Madhurima Chakraborty](#) (<https://sciprofiles.com/profile/839179>),  
[Taniya Bardhan](#) (<https://sciprofiles.com/profile/author/NIBkVVVZdndnY3RQqRnCOGxoZUZ6WnNLWld2R0Y4azB0T05DbW1QV2JTRT0=>),  
[Manjari Basu](#) (<https://sciprofiles.com/profile/2099983>) and [Bornali Bhattacharjee](#) (<https://sciprofiles.com/profile/1792806>)

*Antibiotics* 2022, 11(3), 360; <https://doi.org/10.3390/antibiotics11030360> (<https://doi.org/10.3390/antibiotics11030360>) - 08 Mar 2022

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**Abstract** *Staphylococcus haemolyticus* has emerged to be a frequently encountered late-onset sepsis pathogen among newborn infants. Critical care of neonates involves substantial usage of antibiotics and these pathogens are often exposed to sub-optimal doses of antibiotics which can augment maintenance of selection determinants and [...]. [Read more.](#)

(This article belongs to the Special Issue [Antimicrobials and Antimicrobial Resistance: Current and Future Prospects](#) ([/journal/antibiotics/special\\_issues/Antimicrobials\\_AMR](#)))

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### Empiric Treatment in HAP/VAP: “Don’t You Want to Take a Leap of Faith?” (2079-6382/11/3/359)

by [Khalil Chaïbi](#) (<https://sciprofiles.com/profile/2060391>),  
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[Benoit Pilimis](#) (<https://sciprofiles.com/profile/1604183>)

*Antibiotics* 2022, 11(3), 359; <https://doi.org/10.3390/antibiotics11030359> (<https://doi.org/10.3390/antibiotics11030359>) - 08 Mar 2022

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**Abstract** Ventilator-associated pneumonia is a frequent cause of ICU-acquired infections. These infections are associated with high morbidity and mortality. The increase in antibiotic resistance, particularly among Gram-negative bacilli, makes the choice of empiric antibiotic therapy complex for physicians. Multidrug-resistant organisms (MDROs) related infections are [...]. [Read more.](#)

(This article belongs to the Special Issue [Antimicrobial Therapy in Intensive Care Unit](#) ([/journal/antibiotics/special\\_issues/Antimicrobial\\_ICU](#)))

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Open Access Article

**Synthesis Monitoring, Characterization and Cleanup of Ag-Polydopamine Nanoparticles Used as Antibacterial Agents with Field-Flow Fractionation** ([/2019-6382/11/3/358/pdf](#))  
([/2019-6382/11/3/358/pdf](#)) (toggle desktop layout cookie)

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*Antibiotics* **2022**, *11*(3), 358; <https://doi.org/10.3390/antibiotics11030358> (<https://doi.org/10.3390/antibiotics11030358>) - 08 Mar 2022

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**Abstract** Advances in nanotechnology have opened up new horizons in nanomedicine through the synthesis of new composite nanomaterials able to tackle the growing drug resistance in bacterial strains. Among these, nanosilver antimicrobials show promise for use in the treatment of bacterial infections. The use [...] [Read more](#).

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Open Access Article

**Detection of Antibiotic Residues in Blossom honeys from Different Regions in Turkey by LC-MS/MS Method** ([/2019-6382/11/3/357](#))

by [Buket Er Demirhan](#) (<https://sciprofiles.com/profile/1911202>) and [Burak Demirhan](#) (<https://sciprofiles.com/profile/1951720>)

*Antibiotics* **2022**, *11*(3), 357; <https://doi.org/10.3390/antibiotics11030357> (<https://doi.org/10.3390/antibiotics11030357>) - 08 Mar 2022

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**Abstract** In the present study, a total of 80 commercial blossom honey samples were obtained from local markets in Ankara, Turkey. These honeys were analyzed for 35 important and risky antibiotics (sulfonamide, tetracycline, macrolide, cephalosporin, aminoglycoside, quinolone, nitrofurantoin, chloramphenicol, and anthelmintic groups) by the [...] [Read more](#).

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**Understanding microRNAs in the Context of Infection to Find New Treatments against Human Bacterial Pathogens** ([/2019-6382/11/3/356](#))

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**Abstract** The development of RNA-based anti-infectives has gained interest with the successful application of mRNA-based vaccines. Small RNAs are molecules of RNA of <200 nucleotides in length that may control the expression of specific genes. Small RNAs include small interference RNAs (siRNAs), Piwi-interacting RNAs [...] [Read more](#).

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**Antimicrobial Activity Profiles and Potential Antimicrobial Regimens against Carapenem-Resistant Enterobacterales Isolated from Multi-Centers in Western Thailand** ([/2019-6382/11/3/355](#))

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*Antibiotics* **2022**, *11*(3), 355; <https://doi.org/10.3390/antibiotics11030355> (<https://doi.org/10.3390/antibiotics11030355>) - 07 Mar 2022

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**Abstract** The spread of carbapenem-resistant Enterobacterales (CRE) constitutes a global health burden. Antimicrobial susceptibility and types of carbapenemase differ by geographic region. This study aimed to (1) examine the minimum inhibitory concentrations (MICs) and antibiotic resistance genes and (2) investigate antibiotic dosing regimens against [...] [Read more](#).

(This article belongs to the Section **The Global Need for Effective Antibiotics** ([/journal/antibiotics/sections/Global\\_Need\\_Effective](#)))

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**Impact of Antibiotic Authorisation at Three Provincial Hospitals in Thailand: Results from a Quasi-Experimental Study** ([/2019-6382/11/3/354](#))

by [Walaiporn Wangchinda](#) (<https://sciprofiles.com/profile/author/NDYzMUdreTRsN1ZwKzUwRXdOCHBicWtFbJtUnF0TE4zMW9SYnR1dHdBZz0=>),

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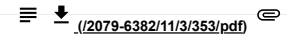
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**Abstract** Implementing antimicrobial stewardship (AMS) at non-university hospitals is challenging. A quasi-experimental study was conducted to determine the impact of customised antibiotic authorisation implementation on antimicrobial consumption and clinical outcomes at three provincial hospitals in Thailand. Customised pre-authorisation of selected restricted antibiotics and post-authorisation [...] [Read more](#).

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Open Access Article

**A Systematic Review and Meta-Analysis of Efficacy and Safety of Azithromycin Versus Moxifloxacin for the Initial Treatment of *Mycoplasma genitalium* Infection** ([/2019-6382/11/3/353](#))by [Hideo Kato](https://sciprofiles.com/profile/1219131) (<https://sciprofiles.com/profile/1219131>), [Mao Hagihara](https://sciprofiles.com/profile/1405725) (<https://sciprofiles.com/profile/1405725>),[Nobuhiro Asai](https://sciprofiles.com/profile/1490255) (<https://sciprofiles.com/profile/1490255>),[Jun Hirai](https://sciprofiles.com/profile/author/NzixQ0NaVDZJdEF1cXFiaU1VYzZ1R0huZ1B1NmJUVVhiVXhBdGJ2THc1dz0=) (<https://sciprofiles.com/profile/author/NzixQ0NaVDZJdEF1cXFiaU1VYzZ1R0huZ1B1NmJUVVhiVXhBdGJ2THc1dz0=>),[Yuka Yamagishi](https://sciprofiles.com/profile/author/L2IMVERQZHZ5ZEdwaS9QMXFUVI2ZUVJWHhcgFQOFRVajFudWNudGxvUT0=) (<https://sciprofiles.com/profile/author/L2IMVERQZHZ5ZEdwaS9QMXFUVI2ZUVJWHhcgFQOFRVajFudWNudGxvUT0=>),[Takuya Iwamoto](https://sciprofiles.com/profile/author/VjYpbUU5a3lkbTAXVTQxNG1IRGFQcG1MWWtWeTFMwMjDbjBqcENSyVlscz0=) (<https://sciprofiles.com/profile/author/VjYpbUU5a3lkbTAXVTQxNG1IRGFQcG1MWWtWeTFMwMjDbjBqcENSyVlscz0=>) and[Hiroshige Mikamo](https://sciprofiles.com/profile/1377474) (<https://sciprofiles.com/profile/1377474>)Antibiotics 2022, 11(3), 353; <https://doi.org/10.3390/antibiotics11030353> (<https://doi.org/10.3390/antibiotics11030353>) - 07 Mar 2022

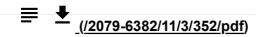
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**Abstract** *Mycoplasma genitalium* is recognized as a remarkable pathogen since azithromycin-resistant strains and treatment failure have been increasingly reported. Nevertheless, international guidelines still recommend azithromycin as a first-line treatment and moxifloxacin as a second-line treatment. We performed a systematic review and meta-analysis to validate [...] [Read more](#).

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**Fabrication of Ceftriaxone-Loaded Cellulose Acetate and Polyvinyl Alcohol Nanofibers and Their Antibacterial Evaluation** ([/2019-6382/11/3/352](#))by [Youdhstar](https://sciprofiles.com/profile/2101560) (<https://sciprofiles.com/profile/2101560>), [Faraz Khan Mahar](https://sciprofiles.com/profile/1322184) (<https://sciprofiles.com/profile/1322184>),[Gotam Das](https://sciprofiles.com/profile/851876) (<https://sciprofiles.com/profile/851876>),[Ayesha Tajammul](https://sciprofiles.com/profile/author/R3FWT2xxa0c4VHZPS001VHkvYmFzRjJXTkNhDGVKZzhuYWRQbHpmWWUtKbz0=) (<https://sciprofiles.com/profile/author/R3FWT2xxa0c4VHZPS001VHkvYmFzRjJXTkNhDGVKZzhuYWRQbHpmWWUtKbz0=>),[Farooq Ahmed](https://sciprofiles.com/profile/author/S0Y1TnBzWGQ5NIVEUGtEMlJyb0JaTG1vSFNSL2RKR1Vlend2SWIIEp2RkRBZJsdDFRcnZWWlXyVWVYSzdQSA==) (<https://sciprofiles.com/profile/author/S0Y1TnBzWGQ5NIVEUGtEMlJyb0JaTG1vSFNSL2RKR1Vlend2SWIIEp2RkRBZJsdDFRcnZWWlXyVWVYSzdQSA==>),[Muzamil Khatri](https://sciprofiles.com/profile/1555522) (<https://sciprofiles.com/profile/1555522>),[Sheeraz Khan](https://sciprofiles.com/profile/author/WVVqNy8xaUpWXU3T3NwSUFZU2I2OE8vKzRQYk9RV0NTMXJRVUFpWGs5UT0=) (<https://sciprofiles.com/profile/author/WVVqNy8xaUpWXU3T3NwSUFZU2I2OE8vKzRQYk9RV0NTMXJRVUFpWGs5UT0=>) and[Zeeshan Khatri](https://sciprofiles.com/profile/2017818) (<https://sciprofiles.com/profile/2017818>)Antibiotics 2022, 11(3), 352; <https://doi.org/10.3390/antibiotics11030352> (<https://doi.org/10.3390/antibiotics11030352>) - 07 Mar 2022

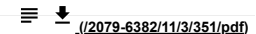
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**Abstract** Nanotechnology provides solutions by combining the fields of textiles and medicine to prevent infectious microbial spread. Our study aimed to evaluate the antimicrobial activity of nanofiber sheets incorporated with a well-known antibiotic, ceftriaxone. It is a third-generation antibiotic that belongs to the cephalosporin [...] [Read more](#).

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Open Access Editorial

**Antimicrobial Susceptibility and Clinical Findings of Anaerobic Bacteria** ([/2019-6382/11/3/351](#))by [Fernando Cobo](https://sciprofiles.com/profile/420867) (<https://sciprofiles.com/profile/420867>)Antibiotics 2022, 11(3), 351; <https://doi.org/10.3390/antibiotics11030351> (<https://doi.org/10.3390/antibiotics11030351>) - 07 Mar 2022

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**Abstract** Anaerobic microorganisms are the most abundant components of the normal human microbiota; they colonize mucous membranes such as the oral cavity and the gastrointestinal and female genital tracts, and they are common pathogens in human populations [...] [Full article](#) ([/2019-6382/11/3/351](#))

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Open Access Review

**Antiseptic Agents for Chronic Wounds: A Systematic Review** ([/2019-6382/11/3/350](#))by [Koko Barriqah-Benissan](https://sciprofiles.com/profile/2075581) (<https://sciprofiles.com/profile/2075581>), [Jérôme Ory](https://sciprofiles.com/profile/2035143) (<https://sciprofiles.com/profile/2035143>),[Albert Sotto](https://sciprofiles.com/profile/1542996) (<https://sciprofiles.com/profile/1542996>),[Florian Salipante](https://sciprofiles.com/profile/author/bE1qKytiRUtrOXI6VmdncTNGYUN2OUh1Z0JuaGpUY01PSzBCMJNwZE5Saz0=) (<https://sciprofiles.com/profile/author/bE1qKytiRUtrOXI6VmdncTNGYUN2OUh1Z0JuaGpUY01PSzBCMJNwZE5Saz0=>),[Jean-Philippe Lavigne](https://sciprofiles.com/profile/174489) (<https://sciprofiles.com/profile/174489>) and [Paul Loubet](https://sciprofiles.com/profile/1903515) (<https://sciprofiles.com/profile/1903515>)Antibiotics 2022, 11(3), 350; <https://doi.org/10.3390/antibiotics11030350> (<https://doi.org/10.3390/antibiotics11030350>) - 06 Mar 2022

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**Abstract** In many parts of the world, antiseptic agents remain non-indicated in chronic wound care. In the current context of bacterial resistance to antibiotics and the development of new-generation antiseptic agents, wound antiseptics represents an asset for the prevention of wound infection. We aimed [...] [Read more](#).

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Open Access Review

**Antimicrobial Peptides: From Design to Clinical Application** ([/2019-6382/11/3/349](#))by [Chunye Zhang](https://sciprofiles.com/profile/1124036) (<https://sciprofiles.com/profile/1124036>) and [Ming Yang](https://sciprofiles.com/profile/805658) (<https://sciprofiles.com/profile/805658>)Antibiotics 2022, 11(3), 349; <https://doi.org/10.3390/antibiotics11030349> (<https://doi.org/10.3390/antibiotics11030349>) - 06 Mar 2022

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**Abstract** Infection of multidrug-resistant (MDR) bacteria, such as methicillin-resistant *Staphylococcus aureus* (MRSA), carbapenem-resistant *Enterobacteriaceae* (CRE), and extended-spectrum beta-lactamase (ESBL)-producing *Escherichia coli*, brings public health issues and causes economic burden. Pathogenic bacteria develop several methods to resist antibiotic killing or inhibition, such as mutation [...] [Read more](#).

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**Feasibility, Challenges, and Benefits of Global Antimicrobial Resistance Surveillance System Implementation: Results from a Multicenter Quasi-Experimental Study** ([/2019-6382/11/3/348](#))

by [Rujipas Sirijatuphat](#) (<https://sciprofiles.com/profile/author/UjQ5V1ViZ1NWUTE0cUFJY2pXQ1ISMzJoLzhib1U0d2szTV11QUZOQpxVT0=>), [Sunee Chayangsu](#) (<https://sciprofiles.com/profile/author/WndldHZZYTFnT1d5VXhCY09F50F4WXF2amhEaGkyTWtxSWpFV29PcEk2cz0=>), [Jintana Srisompong](#) (<https://sciprofiles.com/profile/author/YTlIdm9vbWpXZ0hhLzVjRtk1aTBkcnZwczhibGZtdXJYZEIQNVBVUDVvVT0=>), [Darat Ruangriengsin](#) (<https://sciprofiles.com/profile/author/VHBaNOZONWZaVnM5L3Isd1NpT1V5U0pWUG9aSTdhc0xZOSs1NUpBLzUwYz0=>), [Visanu Thamlikitkul](#) (<https://sciprofiles.com/profile/779837>), [Surapee Tiengrim](#) (<https://sciprofiles.com/profile/author/Vk1GOFpNHBEeGlrZkwyQzZOMW9OazFRUUYxQzgvRmJwV2FoaTVvZ0zXST0=>), [Walaiporn Wangchinda](#) (<https://sciprofiles.com/profile/author/NDYzMUdreTRsN1ZwKzUwRXdOchBicWtFbJtUnF0TE4zMMW9SYnR1dHdBZz0=>), [Pornpan Koomanachai](#) (<https://sciprofiles.com/profile/author/NEFNY3JRTFNmQ2g5TVIGVnV0U0F2aEtIRkhsMWp3dS8zK2hDNVRaV3BGQT0=>) and [Pinyo Rattanaumpawan](#) (<https://sciprofiles.com/profile/2044628>)

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**Abstract** The Global Antimicrobial Resistance Surveillance System (GLASS) is one of the pillars of the global action plan on antimicrobial resistance launched by the World Health Organization in 2015. This study was conducted to determine the feasibility and benefits of GLASS as a component [...] [Read more](#).

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**Idiosyncratic Fitness Costs of Ampicillin-Resistant Mutants Derived from a Long-Term Experiment with *Escherichia coli*** ([/2019-6382/11/3/347](#))

by [Jalin A. Jordan](#) (<https://sciprofiles.com/profile/author/L05sb1hBWTJ0RHVY0xLR3VySWd5M1BGWUdmVWpGdTdacVIsOUZLaytIMD0=>), [Richard E. Lenski](#) (<https://sciprofiles.com/profile/author/NIYxYTVoVnZITU5nU3NXNGdhSGdsdz09>) and [Kyle J. Card](#) (<https://sciprofiles.com/profile/2054422>)

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**Abstract** Antibiotic resistance is a growing concern that has prompted a renewed focus on drug discovery, stewardship, and evolutionary studies of the patterns and processes that underlie this phenomenon. A resistant strain's competitive fitness relative to its sensitive counterparts in the absence of drug [...] [Read more](#).

(This article belongs to the Special Issue **How Far Are We from Predicting the Evolution of Antibiotic Resistance?** ([/journal/antibiotics/special\\_issues/Antibiotic\\_evolution](#)))

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**Genomic Characterization of Clinical *Acinetobacter baumannii* Isolates Obtained from COVID-19 Patients in Russia** ([/2019-6382/11/3/346](#))

by [Andrey Shelenkov](#) (<https://sciprofiles.com/profile/936827>), [Yulia Mikhaylova](#) (<https://sciprofiles.com/profile/1458538>), [Lyudmila Petrova](#) (<https://sciprofiles.com/profile/author/dVVUub1rQW16cDY1bJpJQ0JZdVUzZ2RPZnZCckZTekFLaERMT3BDeDZQQT0=>), [Irina Gaidukova](#) (<https://sciprofiles.com/profile/author/Mmi3QVErWjJz0N1aVDJkcy8vSjRnZGY5a2J6S3hIOVJ1YU9sV2NBaURUWT0=>), [Mikhail Zamyatin](#) (<https://sciprofiles.com/profile/1962177>) and [Vasilij Akimkin](#) (<https://sciprofiles.com/profile/author/ODh2YUZDUUnNPM1IDWDdsY3QzeGY1NXcrZTZNeGc0c29oV2xjNGwxSjdadz0=>)

*Antibiotics* **2022**, *11*(3), 346; <https://doi.org/10.3390/antibiotics11030346> (<https://doi.org/10.3390/antibiotics11030346>) - 06 Mar 2022

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**Abstract** The coronavirus disease 2019 (COVID-19) pandemic has already affected all realms of public healthcare and, in particular, has led to increasing use of various antibiotics to treat possible bacterial coinfections even in cases for which such infections were not confirmed clinically. This could [...] [Read more](#).

(This article belongs to the Special Issue **Antimicrobial Resistance and Virulence – 3rd Volume** ([/journal/antibiotics/special\\_issues/Viru\\_Antibiotics](#)))

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**Real-World Use of Sotrovimab for Pre-Emptive Treatment in High-Risk Hospitalized COVID-19 Patients: An Observational Cross-Sectional Study** ([/2019-6382/11/3/345](#))

by [Sean W. X. Ong](#) (<https://sciprofiles.com/profile/author/SDQ5NnImUG5KWVivRUyPbGNVZVErTdh4Ky95SHJUbDhMMnJRSGErVW5qdz0=>), [Dongdong Ren](#) (<https://sciprofiles.com/profile/author/SEVXbU5iQVBiT2NZOEvtDkpEMFBZeXZPbUlrdGlx2xaeExmdVV4YkpMdz0=>), [Pei Hua Lee](#) (<https://sciprofiles.com/profile/2094111>), [Stephanie Sutjipto](#) (<https://sciprofiles.com/profile/author/OUxmZ2JNWdVWRkxIUC95UDM3SFNjemloVmlrZEc2bUpsWkdGazZrR212VT0=>), [Christopher Dugan](#) (<https://sciprofiles.com/profile/author/YUZJckxsenJWEN3RHNIzXhkZldLV3NhR1B0SxovZytSdK1JTDZVb2xHQT0=>), [Bo Yan Khoo](#) (<https://sciprofiles.com/profile/author/cWF0MnhDvM1TSXFWdHBYd3B5dStUNFydlQwTG5rUG9mRjJlCDBERytudz0=>), [Jun Xin Tay](#) (<https://sciprofiles.com/profile/author/SihLbnJrbC9WWmo0UzVudjVVT09KaHVEN3JmZFA1cDdEQzJBRkROV29MMD0=>), [Shawn Vasoo](#) (<https://sciprofiles.com/profile/author/T3d1d1nSE5BZU1Tb1p1Y0piYkpZ2DRDYmg4U3dZeVF5V0vUmKrmCvPBMd0=>), [Barnaby E. Young](#) (<https://sciprofiles.com/profile/2006041>) and [David C. Lye](#) (<https://sciprofiles.com/profile/2063491>)

*Antibiotics* **2022**, *11*(3), 345; <https://doi.org/10.3390/antibiotics11030345> (<https://doi.org/10.3390/antibiotics11030345>) - 05 Mar 2022

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**Abstract** Data on use of monoclonal antibodies (mAbs) in hospitalized patients are limited. In this cross-sectional study, we evaluated the use of mAbs for early treatment of unvaccinated hospitalized patients with mild-to-moderate COVID-19. All inpatients at our center were screened on 27 October 2021. [...] [Read more](#).

(This article belongs to the Special Issue **The Use of Antibiotics in COVID-19 Infections** ([/journal/antibiotics/special\\_issues/Anti\\_COVID19](#)))










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Open Access Review

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







**Isavuconazole in the Treatment of *Aspergillus fumigatus* Fracture-Related Infection: Case Report and Literature Review** ((2079-6382/11/3/344))by  [Beatrijs Mertens](https://sciprofiles.com/profile/2064249) (<https://sciprofiles.com/profile/2064249>),  [Ruth Van Daele](https://sciprofiles.com/profile/1613639) (<https://sciprofiles.com/profile/1613639>), [Melissa Depypere](https://sciprofiles.com/profile/954810) (<https://sciprofiles.com/profile/954810>),  [Katrien Lagrou](https://sciprofiles.com/profile/795984) (<https://sciprofiles.com/profile/795984>), [Yves Debaveye](https://sciprofiles.com/profile/author/Y0tZdmcvNTIDdW43VC9JWJZCRkVtb3Q4Uy9LSzBjMm13eThVUFZOZmcwvbn269ggle_desktop_layout_cookie) ([https://sciprofiles.com/profile/author/Y0tZdmcvNTIDdW43VC9JWJZCRkVtb3Q4Uy9LSzBjMm13eThVUFZOZmcwvbn269ggle\\_desktop\\_layout\\_cookie](https://sciprofiles.com/profile/author/Y0tZdmcvNTIDdW43VC9JWJZCRkVtb3Q4Uy9LSzBjMm13eThVUFZOZmcwvbn269ggle_desktop_layout_cookie)), [Joost Wauters](https://sciprofiles.com/profile/1930972) (<https://sciprofiles.com/profile/1930972>), [Stefaan Nijs](https://sciprofiles.com/profile/author/TXV3S2Z2Y0dyYzAweGtYdWdXaVBXSWZ6FgyT01LZ1dhSXIKTHuNEE0bz0=) (<https://sciprofiles.com/profile/author/TXV3S2Z2Y0dyYzAweGtYdWdXaVBXSWZ6FgyT01LZ1dhSXIKTHuNEE0bz0=>), [Willem-Jan Metsemakers](https://sciprofiles.com/profile/1597558) (<https://sciprofiles.com/profile/1597558>) and [Isabel Spriet](https://sciprofiles.com/profile/author/UXppN0NrNUhiQVIKbnM3bkpramR5QW1CdInVScTnOXdlb1N2Tk1UTnIBQT0=) (<https://sciprofiles.com/profile/author/UXppN0NrNUhiQVIKbnM3bkpramR5QW1CdInVScTnOXdlb1N2Tk1UTnIBQT0=>)*Antibiotics* 2022, 11(3), 344; <https://doi.org/10.3390/antibiotics11030344> (<https://doi.org/10.3390/antibiotics11030344>) - 05 Mar 2022

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**Abstract** *Aspergillus* fracture-related infection (FRI) is a rare, but severe complication in trauma surgery. The optimal antifungal treatment for *Aspergillus* osteomyelitis, including FRI, has not been established yet, as only cases have been documented and data on bone penetration of antifungal drugs are scarce. [...] [Read more](#).(This article belongs to the Special Issue **Fracture-Related Infection: An Update on Antimicrobial Therapy** ([/journal/antibiotics/special\\_issues/Fracture\\_Infection](#)))**Show Figures**[\(antibiotics/antibiotics-11-00344/article\\_deploy/html/images/antibiotics-11-00344-g001-550.jpg\)](#), [\(antibiotics/antibiotics-11-00344/article\\_deploy/html/images/antibiotics-11-00344-g002-550.jpg\)](#), [\(antibiotics/antibiotics-11-00344/article\\_deploy/html/images/antibiotics-11-00344-g003-550.jpg\)](#), [\(antibiotics/antibiotics-11-00344/article\\_deploy/html/images/antibiotics-11-00344-g0A1-550.jpg\)](#)




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**Establishment of Epidemiological Cut-Off Values and the Distribution of Resistance Genes in *Aeromonas hydrophila* and *Aeromonas veronii* Isolated from Aquatic Animals** ((2079-6382/11/3/343))by  [Soo-Ji Woo](https://sciprofiles.com/profile/1844563) (<https://sciprofiles.com/profile/1844563>), [Myoung-Sug Kim](https://sciprofiles.com/profile/author/VkU1MwV2VW9EZ0h4RzNkL1JldS8xM0IMZnhIQVdZQUtONDFKOGN6TkjdST0=) (<https://sciprofiles.com/profile/author/VkU1MwV2VW9EZ0h4RzNkL1JldS8xM0IMZnhIQVdZQUtONDFKOGN6TkjdST0=>), [Min-Gyeong Jeong](https://sciprofiles.com/profile/author/RFZLOUlkS1J3WkdMT2p3dmR3ZVZEek1qcmYxVWxTUUkvclpmaDduT1k1ND0=) (<https://sciprofiles.com/profile/author/RFZLOUlkS1J3WkdMT2p3dmR3ZVZEek1qcmYxVWxTUUkvclpmaDduT1k1ND0=>), [Mi-Young Do](https://sciprofiles.com/profile/author/b3A0dij0b085NFRqejM5NVhvVUFUDuM53QnliWDdHSER4N0t5U01kTzA0VT0=) (<https://sciprofiles.com/profile/author/b3A0dij0b085NFRqejM5NVhvVUFUDuM53QnliWDdHSER4N0t5U01kTzA0VT0=>), [Sung-Don Hwang](https://sciprofiles.com/profile/1887273) (<https://sciprofiles.com/profile/1887273>) and  [Woo-Jin Kim](https://sciprofiles.com/profile/author/aFERZHUwN1R1b29Xc0dXem1IbHQ3QT09) (<https://sciprofiles.com/profile/author/aFERZHUwN1R1b29Xc0dXem1IbHQ3QT09>)*Antibiotics* 2022, 11(3), 343; <https://doi.org/10.3390/antibiotics11030343> (<https://doi.org/10.3390/antibiotics11030343>) - 05 Mar 2022

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**Abstract** The emergence of antimicrobial-resistant bacteria is an enormous challenge to public health. *Aeromonas hydrophila* and *Aeromonas veronii* are opportunistic pathogens in fish. They exert tremendous adverse effects on aquaculture production, owing to their acquired antibiotic resistance. A few Clinical and Laboratory Standards Institute [...] [Read more](#).**Show Figures**[\(antibiotics/antibiotics-11-00343/article\\_deploy/html/images/antibiotics-11-00343-g001-550.jpg\)](#), [\(antibiotics/antibiotics-11-00343/article\\_deploy/html/images/antibiotics-11-00343-g002-550.jpg\)](#), [\(antibiotics/antibiotics-11-00343/article\\_deploy/html/images/antibiotics-11-00343-g003-550.jpg\)](#), [\(antibiotics/antibiotics-11-00343/article\\_deploy/html/images/antibiotics-11-00343-g004-550.jpg\)](#), [\(antibiotics/antibiotics-11-00343/article\\_deploy/html/images/antibiotics-11-00343-g005-550.jpg\)](#), [\(antibiotics/antibiotics-11-00343/article\\_deploy/html/images/antibiotics-11-00343-g006-550.jpg\)](#), [\(antibiotics/antibiotics-11-00343/article\\_deploy/html/images/antibiotics-11-00343-g007-550.jpg\)](#)






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**Intestinal Exposure to Ceftiofur and Cefquinome after Intramuscular Treatment and the Impact of Ceftiofur on the Pig Fecal Microbiome and Resistome** ((2079-6382/11/3/342))by  [Sofie Rutjens](https://sciprofiles.com/profile/1665746) (<https://sciprofiles.com/profile/1665746>),  [Nick Vereecke](https://sciprofiles.com/profile/2095771) (<https://sciprofiles.com/profile/2095771>), [Ward De Spiegeleere](https://sciprofiles.com/profile/1334654) (<https://sciprofiles.com/profile/1334654>),  [Siska Croubels](https://sciprofiles.com/profile/269897) (<https://sciprofiles.com/profile/269897>) and [Mathias Devreese](https://sciprofiles.com/profile/23249) (<https://sciprofiles.com/profile/23249>)*Antibiotics* 2022, 11(3), 342; <https://doi.org/10.3390/antibiotics11030342> (<https://doi.org/10.3390/antibiotics11030342>) - 04 Mar 2022

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**Abstract** Optimization of antimicrobial treatment during a bacterial infection in livestock requires in-depth knowledge of the impact of antimicrobial therapy on the pathogen and commensal microbiota. Once administered antimicrobials and/or their metabolites are excreted either by the kidneys through urine and/or by the intestinal [...] [Read more](#).(This article belongs to the Special Issue **Epidemiology, Impact and Mitigation of Antimicrobial Resistance in Veterinary Medicine** ([/journal/antibiotics/special\\_issues/Veterinary\\_Antibiotics](#)))**Show Figures**[\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g001-550.jpg\)](#), [\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g002-550.jpg\)](#), [\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g003-550.jpg\)](#), [\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g004-550.jpg\)](#), [\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g005-550.jpg\)](#), [\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g006-550.jpg\)](#), [\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g007-550.jpg\)](#), [\(antibiotics/antibiotics-11-00342/article\\_deploy/html/images/antibiotics-11-00342-g008-550.jpg\)](#)


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**Extended Infusion of Meropenem in Neonatal Sepsis: A Historical Cohort Study** ((2079-6382/11/3/341))by  [Guangna Cao](https://sciprofiles.com/profile/2036717) (<https://sciprofiles.com/profile/2036717>),  [Pengxiang Zhou](https://sciprofiles.com/profile/1483642) (<https://sciprofiles.com/profile/1483642>), [Hua Zhang](https://sciprofiles.com/profile/author/KzcyZkorN2cvaUF5bHZRQ0pRYUxGY3RKTzBSb0dUmU4U3haYIFuR1NMND0=) (<https://sciprofiles.com/profile/author/KzcyZkorN2cvaUF5bHZRQ0pRYUxGY3RKTzBSb0dUmU4U3haYIFuR1NMND0=>), [Bangkai Sun](https://sciprofiles.com/profile/author/djk5U3dvZnpPTDBHS3drcENINTF6L0Urc25CmwwbjhnQzBqN0Vpem14ST0=) (<https://sciprofiles.com/profile/author/djk5U3dvZnpPTDBHS3drcENINTF6L0Urc25CmwwbjhnQzBqN0Vpem14ST0=>), [Xiaomei Tong](https://sciprofiles.com/profile/author/MUJlcEtyODVUOGVwYzhJTkpwC3VSZnEzSjZ1NHfQtk50bkE0YU9IYWRuQT0=) (<https://sciprofiles.com/profile/author/MUJlcEtyODVUOGVwYzhJTkpwC3VSZnEzSjZ1NHfQtk50bkE0YU9IYWRuQT0=>) and [Yan Xing](https://sciprofiles.com/profile/2036934) (<https://sciprofiles.com/profile/2036934>)*Antibiotics* 2022, 11(3), 341; <https://doi.org/10.3390/antibiotics11030341> (<https://doi.org/10.3390/antibiotics11030341>) - 04 Mar 2022

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**Abstract** This single-center historical cohort study investigated the effectiveness and safety of extended infusion (EI) compared with short-term infusion (STI) of meropenem in neonatal sepsis. Patient electronic health records from Peking University Third Hospital (1 December 2011–1 April 2021) were screened. Neonates diagnosed with [...] [Read more](#).(This article belongs to the Special Issue **Appropriateness of Antibiotics in China - 2nd Volume** ([/journal/antibiotics/special\\_issues/Approp\\_Antibiotics](#)))**Show Figures**[\(antibiotics/antibiotics-11-00341/article\\_deploy/html/images/antibiotics-11-00341-g001-550.jpg\)](#)

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**Prevalence, Antibiotic Resistance, Toxin-Typing and Genotyping of *Clostridium perfringens* in Raw Beef Meats Obtained from Qazvin City, Iran** ((2079-6382/11/3/340))by  [Samaneh Hassani](https://sciprofiles.com/profile/author/OVJzN2U5b2N5em5hR2JhcUY1bnlrZGNpTFhiOEcvR08zeXZJNFHSrNBmMD0=) (<https://sciprofiles.com/profile/author/OVJzN2U5b2N5em5hR2JhcUY1bnlrZGNpTFhiOEcvR08zeXZJNFHSrNBmMD0=>), [Babak Pakbin](https://sciprofiles.com/profile/178634) (<https://sciprofiles.com/profile/178634>),  [Wolfram Manuel Brück](https://sciprofiles.com/profile/923439) (<https://sciprofiles.com/profile/923439>),



**Razzagh Mahmoudi** (<https://sciprofiles.com/profile/author/cTYwVnoxTE5hdEJITfh4RDVtZjpCU3FwMIZKamVYRysvQmsraDNibkJyND0=>) and **Shaghayegh Mousavi** (<https://sciprofiles.com/profile/author/aHd1bXQ1M3dpSnFDcWYwcGhhVFJmWTlrNWZiWWVjSm10MkpDU1kxRE5JRT0=>)

*Antibiotics* **2022**, *11*(3), 340; <https://doi.org/10.3390/antibiotics11030340> (<https://doi.org/10.3390/antibiotics11030340>) - 04 Mar 2022

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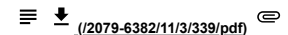


**Abstract** Background: *Clostridium perfringens* is one of the highest prevailing spore-forming foodborne pathogens, which is widely distributed and causes severe disease and outbreaks in humans and animals. Raw meat and poultry are the main vehicles of this pathogen. In this study, we investigated the [...] [Read more.](#)

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Open Access Review



**Review and Comparison of Antimicrobial Resistance Gene Databases** ([/2019-6382/11/3/339](#))

by **Márton Papp** (<https://sciprofiles.com/profile/1859523>) and **Norbert Solymosi** (<https://sciprofiles.com/profile/1374117>)

*Antibiotics* **2022**, *11*(3), 339; <https://doi.org/10.3390/antibiotics11030339> (<https://doi.org/10.3390/antibiotics11030339>) - 04 Mar 2022

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**Abstract** As the prevalence of antimicrobial resistance genes is increasing in microbes, we are facing the return of the pre-antibiotic era. Consecutively, the number of studies concerning antibiotic resistance and its spread in the environment is rapidly growing. Next generation sequencing technologies are widespread [...] [Read more.](#) (This article belongs to the Special Issue [Genetic Background of Antimicrobial Resistance](#) ([/journal/antibiotics/special\\_issues/genetic\\_resistance](#)))

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Open Access Review



**Antibiotics and ECMO in the Adult Population—Persistent Challenges and Practical Guides** ([/2019-6382/11/3/338](#))

by **Francisco Gomez** (<https://sciprofiles.com/profile/2075820>),

**Jesyree Veita** (<https://sciprofiles.com/profile/author/ZTQyNk9XS2Y5SUdYbIQ4QjcxawpEbK41cGd2U1hub0p4QU9GSVVCQTd5cz0=>) and

**Krzysztof Laudanski** (<https://sciprofiles.com/profile/325632>)

*Antibiotics* **2022**, *11*(3), 338; <https://doi.org/10.3390/antibiotics11030338> (<https://doi.org/10.3390/antibiotics11030338>) - 04 Mar 2022

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**Abstract** Extracorporeal membrane oxygenation (ECMO) is an emerging treatment modality associated with a high frequency of antibiotic use. However, several covariables emerge during ECMO implementation, potentially jeopardizing the success of antimicrobial therapy. These variables include but are not limited to: the increased volume of [...] [Read more.](#) (This article belongs to the Special Issue [Antimicrobial Therapy in Intensive Care Unit](#) ([/journal/antibiotics/special\\_issues/Antimicrobial\\_ICU](#)))

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**Synthesis and Biological Activity of Antimicrobial Agents** ([/2019-6382/11/3/337](#))

by **M. Fernanda N. N. Carvalho** (<https://sciprofiles.com/profile/814795>)

*Antibiotics* **2022**, *11*(3), 337; <https://doi.org/10.3390/antibiotics11030337> (<https://doi.org/10.3390/antibiotics11030337>) - 04 Mar 2022

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**Abstract** New antimicrobial agents are urgent and necessary to overcome the acquired resistance of microorganisms to existing antibiotics and antifungals [...] [Full article](#) ([/2019-6382/11/3/337](#))

(This article belongs to the Special Issue [Synthesis and Biological Activity of Antimicrobial Agents](#) ([/journal/antibiotics/special\\_issues/synthesis\\_anti\\_agent](#)))

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**Tobramycin Blood Levels after Local Antibiotic Treatment of Bone and Soft Tissue Infection** ([/2019-6382/11/3/336](#))

by **Carlos D. Pargas** (<https://sciprofiles.com/profile/2091954>),

**Ahmed H. Elhessy** (<https://sciprofiles.com/profile/author/b0IEczVpknNGdnBWRGF2OWEzU1hsaHhMSVd3emNyK200akxWLzBvUJWTDND0=>),

**Mehdi Abouei** (<https://sciprofiles.com/profile/author/UkhBb2Q1eWNsRmwyT3pZZ0JydVFVHHRGc3gwYWRNbFhUb3krbU91M05OVT0=>),

**Martin G. Gesheff** (<https://sciprofiles.com/profile/author/dG5oZIVHd2oxZmlzS3ppeXhiWHIHNCtSaGNkTW10SjQxZzdLNjhKL1MrVT0=>) and

**Janet D. Conway** (<https://sciprofiles.com/profile/2046522>)

*Antibiotics* **2022**, *11*(3), 336; <https://doi.org/10.3390/antibiotics11030336> (<https://doi.org/10.3390/antibiotics11030336>) - 04 Mar 2022

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**Abstract** Local antibiotic delivery using different carriers plays an important role in both infection prophylaxis and treatment. Besides dead space management, these carriers have the advantage of providing a high concentration of local antibiotics with a lower risk of systemic toxicity. Few studies have [...] [Read more.](#) (This article belongs to the Special Issue [Fracture-Related Infection: An Update on Antimicrobial Therapy](#) ([/journal/antibiotics/special\\_issues/Fracture\\_infection](#)))

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**Effects of Lysine N<sup>3</sup>-Methylation in Ultrashort Tetrabasic Lipopeptides (UTBLPs) on the Potentiation of Rifampicin, Novobiocin, and Niclosamide in Gram-Negative Bacteria** ([/2019-6382/11/3/335](#))

by

**Linus Schweizer** (<https://sciprofiles.com/profile/author/c1NaeHIIWXh3N1dYbmFKcmIKYXpidDVQdHQxSzdObzlyb0J4WVd0UDdkcE4zbnBKcnBibV6N6Snb4T0J6RGp5NA==>)

**Danyel Ramirez** (<https://sciprofiles.com/profile/1563535>) and **Frank Schweizer** (<https://sciprofiles.com/profile/2044949>)

*Antibiotics* **2022**, *11*(3), 335; <https://doi.org/10.3390/antibiotics11030335> (<https://doi.org/10.3390/antibiotics11030335>) - 03 Mar 2022

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**Abstract** Outer membrane (OM) drug impermeability typically associated with a molecular weight above 600 Da and high hydrophobicity prevents accumulation of many antibiotics in Gram-negative bacteria (GNB). Previous studies have shown that ultrashort tetrabasic lipopeptides (UTBLPs) containing multiple lysine residues potentiate Gram-positive bacteria (GPB)-selective [...] [Read more.](#) (This article belongs to the Special Issue [Peptide-Based Antibiotics: Challenges and Opportunities](#) ([/journal/antibiotics/special\\_issues/Peptide\\_Antibiotics](#)))

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### New Glycosylated Polyene Macrolides: Refining the Ore from Genome Mining (/2079-6382/11/3/334)

by [Patrick Caffrey](https://sciprofiles.com/profile/256404) (<https://sciprofiles.com/profile/256404>), [Mark Hogan](https://sciprofiles.com/profile/2075498) (<https://sciprofiles.com/profile/2075498>) and [Yuhao Song](https://sciprofiles.com/profile/2098575) (<https://sciprofiles.com/profile/2098575>)

*Antibiotics* **2022**, *11*(3), 334; <https://doi.org/10.3390/antibiotics11030334> (<https://doi.org/10.3390/antibiotics11030334>) - 03 Mar 2022

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**Abstract** Glycosylated polyene macrolides include effective antifungal agents, such as pimaricin, nystatin, candicidin, and amphotericin B. For the treatment of systemic mycoses, amphotericin B has been described as a gold-standard antibiotic because of its potent activity against a broad spectrum of fungal pathogens, which [...] [Read more](#). (This article belongs to the Special Issue [Discovery and Biosynthesis of Novel Antibiotic from \*Streptomyces\*](#) ([/journal/antibiotics/special\\_issues/Streptomyces\\_Antibiotic](#)))

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### Prescription Patterns of Drugs Given to Hospitalized COVID-19 Patients: A Cross-Sectional Study in Colombia (/2079-6382/11/3/333)

by [Luis Fernando Valladales-Restrepo](https://sciprofiles.com/profile/1125332) (<https://sciprofiles.com/profile/1125332>),

[Jaime Andrés Giraldo-Correa](https://sciprofiles.com/profile/author/ekpGQS9YNUJDaTFTZHINdXIZdGzCoVTNPSHJHSUpDNXdXWE1qNTdla0xMQT0=) (<https://sciprofiles.com/profile/author/ekpGQS9YNUJDaTFTZHINdXIZdGzCoVTNPSHJHSUpDNXdXWE1qNTdla0xMQT0=>),

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*Antibiotics* **2022**, *11*(3), 333; <https://doi.org/10.3390/antibiotics11030333> (<https://doi.org/10.3390/antibiotics11030333>) - 03 Mar 2022

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**Abstract** The impact of COVID-19 prompted a race to find a treatment that would reduce its mortality. Most studies have not shown favorable results for many of these drugs, but they are still used. The aim as to determine the differences and similarities in [...] [Read more](#).

(This article belongs to the Special Issue [The Use of Antibiotics in COVID-19 Infections](#) ([/journal/antibiotics/special\\_issues/Anti\\_COVID19](#)))

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### Occurrence of Antibiotic Resistance in the Mediterranean Sea (/2079-6382/11/3/332)

by [Delia Gambino](https://sciprofiles.com/profile/987886) (<https://sciprofiles.com/profile/987886>), [Dario Savoca](https://sciprofiles.com/profile/998817) (<https://sciprofiles.com/profile/998817>),

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*Antibiotics* **2022**, *11*(3), 332; <https://doi.org/10.3390/antibiotics11030332> (<https://doi.org/10.3390/antibiotics11030332>) - 03 Mar 2022

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**Abstract** Seawater could be considered a reservoir of antibiotic-resistant bacteria and antibiotic resistance genes. In this communication, we evaluated the presence of bacterial strains in seawater collected from different coasts of Sicily by combining microbiological and molecular methods. Specifically, we isolated viable bacteria that [...] [Read more](#).

(This article belongs to the Special Issue [Genetic Background of Antimicrobial Resistance](#) ([/journal/antibiotics/special\\_issues/genetic\\_resistance](#)))

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### The Interplay among Radiation Therapy, Antibiotics and the Microbiota: Impact on Cancer Treatment Outcomes (/2079-6382/11/3/331)

by [Kavery Nivana Theethira Poonacha](https://sciprofiles.com/profile/2095204) (<https://sciprofiles.com/profile/2095204>), [Tomás G. Villa](https://sciprofiles.com/profile/771193) (<https://sciprofiles.com/profile/771193>) and

[Vicente Notario](https://sciprofiles.com/profile/1191856) (<https://sciprofiles.com/profile/1191856>)

*Antibiotics* **2022**, *11*(3), 331; <https://doi.org/10.3390/antibiotics11030331> (<https://doi.org/10.3390/antibiotics11030331>) - 02 Mar 2022

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**Abstract** Radiation therapy has been used for more than a century, either alone or in combination with other therapeutic modalities, to treat most types of cancer. On average,

radiation therapy is included in the treatment plans for over 50% of all cancer patients, and [...] [Read more.](#)

(This article belongs to the Special Issue [Non-Antimicrobial Actions of Antibiotics](#) ([/journal/antibiotics/special\\_issues/Non\\_Antibiotics](#)))

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### Impact of the Acceptance of the Recommendations Made by a Meropenem Stewardship Program in a University Hospital: A Pilot Study (2019-6382/11/3/330)

by [Jorge Alba Fernandez](#) (<https://sciprofiles.com/profile/1974355>),

[Jose Luis del Pozo](#) (<https://sciprofiles.com/profile/author/bINMR1UvcUpMLzFqTGYrZEh3ZzRhYV13THpHTUMybmrRuNE5OZ1InZEFYTT0=>),

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*Antibiotics* 2022, 11(3), 330; <https://doi.org/10.3390/antibiotics11030330> (<https://doi.org/10.3390/antibiotics11030330>) - 02 Mar 2022

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**Abstract** Antimicrobial stewardship programs (ASP) promote appropriate antimicrobial use. We present a 4-year retrospective study that evaluated the clinical impact of the acceptance of the recommendations made by a meropenem-focused ASP. A total of 318 meropenem audits were performed. The ASP team (comprising infectious [...] [Read more.](#)

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### Investigation of the Quality of the 12 Most-Used Antibiotics Available in Retail Private Pharmacies in Rwanda (2019-6382/11/3/329)

by [Thomas Bizimana](#) (<https://sciprofiles.com/profile/1985503>),

[Védaste Kagisha](#) (<https://sciprofiles.com/profile/author/T2M3aUo0d1pzVmZ2bERDYWFMWJyd1JaT2h4czJYVWxVOFRRCG95ZTJZWT0=>),

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*Antibiotics* 2022, 11(3), 329; <https://doi.org/10.3390/antibiotics11030329> (<https://doi.org/10.3390/antibiotics11030329>) - 02 Mar 2022

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**Abstract** Using poor-quality antibiotics leads to increased risk of the development of microorganism-resistant strains, treatment failure, loss of confidence in health systems, and associated socio-economic impacts. The prevalence of poor-quality antibiotics has been found to be high in some of the Low and Middle-Income [...] [Read more.](#)

(This article belongs to the Topic [Compounds with Medicinal Value](#) ([/topics/Compounds\\_Medicinal\\_Value](#)))

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### Extraintestinal Pathogenic *Escherichia coli*: Beta-Lactam Antibiotic and Heavy Metal Resistance (2019-6382/11/3/328)

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[Linda Maurizi](#) (<https://sciprofiles.com/profile/author/SDhYR0VzVjB2ZnQzVXh6N3FYT2YyVW5DQ1gzbzvYVFjS1FKOEhTOVdPz0=>),

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*Antibiotics* 2022, 11(3), 328; <https://doi.org/10.3390/antibiotics11030328> (<https://doi.org/10.3390/antibiotics11030328>) - 01 Mar 2022

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**Abstract** Multiple-antibiotic-resistant (MAR) extra-intestinal pathogenic *Escherichia coli* (ExPEC) represents one of the most frequent causes of human nosocomial and community-acquired infections, whose eradication is of major concern for clinicians. ExPECs may inhabit indefinitely as commensal the gut of humans and other animals; from the [...] [Read more.](#)

(This article belongs to the Section [Antibiotics Use and Antimicrobial Stewardship](#) ([/journal/antibiotics/sections/Antibiotics\\_Use](#)))

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### Exploring the Antifungal Activity and Action of *Saussurea costus* Root Extracts against *Candida albicans* and Non-*albicans* Species (2019-6382/11/3/327)

by [Melad F. Soliman](#) (<https://sciprofiles.com/profile/2008664>),

[Youssria M. Shetaia](#) (<https://sciprofiles.com/profile/author/MXc5QThBeGNWN0dxaExmQnFGV3UxOEtYbGJ2VTAzL0oxNnczWkNjQjJwVT0=>),

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[Mahmoud A. Al-Saman](#) (<https://sciprofiles.com/profile/1891301>)

*Antibiotics* 2022, 11(3), 327; <https://doi.org/10.3390/antibiotics11030327> (<https://doi.org/10.3390/antibiotics11030327>) - 01 Mar 2022

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**Abstract** The isolation and assessment of the active constituents in polar and non-polar crude extracts of *Saussurea costus* roots as antifungal agents, against *Candida albicans* and non-*C. albicans* (NAC) species, was the aim of this current investigation. The SEM "Scanning electron microscopy" [...] [Read more.](#)

(This article belongs to the Special Issue [Development and Application of Plant Antimicrobial Substance](#) ([/journal/antibiotics/special\\_issues/substance\\_antibiotics](#)))

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### Lung-Directed Bacteriotherapy in Cystic Fibrosis: Could It Be an Option? (2019-6382/11/3/326)

by [Giovanna Batoni](https://sciprofiles.com/profile/110309) (<https://sciprofiles.com/profile/110309>), [Giuseppantonio Maisetta](https://sciprofiles.com/profile/110116) (<https://sciprofiles.com/profile/110116>), [Esmaeil Kaya](https://sciprofiles.com/profile/1167967) (<https://sciprofiles.com/profile/1167967>) and [Semih Esin](https://sciprofiles.com/profile/929377) (<https://sciprofiles.com/profile/929377>)

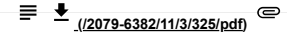
*Antibiotics* **2022**, *11*(3), 326; <https://doi.org/10.3390/antibiotics11030326> (<https://doi.org/10.3390/antibiotics11030326>) - 28 Feb 2022  
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**Abstract** Due to the alarming spread of bacterial resistance to conventional drugs, the sole use of antibiotics to fight lung infections in cystic fibrosis (CF) is not resolute, and novel strategies to replace or complement the use of antibiotics are highly desirable. Among these [...] [Read more](#).  
(This article belongs to the Special Issue **A Themed Issue in Honor of Professor Alexander Tomasz—Outstanding Contributions in the Fields of Antibiotic Resistance and Bacterial Infectious Diseases** ([/journal/antibiotics/special\\_issues/Outstanding\\_Antibiotic](/journal/antibiotics/special_issues/Outstanding_Antibiotic)))

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**RecA and Specialized Error-Prone DNA Polymerases Are Not Required for Mutagenesis and Antibiotic Resistance Induced by Fluoroquinolones in *Pseudomonas aeruginosa*** (</2079-6382/11/3/325>)

by [Jessica Mercolino](https://sciprofiles.com/profile/author/ZG8reVNxK0UzMHJxZlc1Sk5nRndMTFB6L3k3aExhb3k3b1RsSmZYcTk0QT0=) (<https://sciprofiles.com/profile/author/ZG8reVNxK0UzMHJxZlc1Sk5nRndMTFB6L3k3aExhb3k3b1RsSmZYcTk0QT0=>), [Alessandra Lo Sciuto](https://sciprofiles.com/profile/author/WVBneGtEQ3JZN0hNMIQ00UI3Z1pmakNteWlzdExxK3pnQnJFNURtQ28rbz0=) (<https://sciprofiles.com/profile/author/WVBneGtEQ3JZN0hNMIQ00UI3Z1pmakNteWlzdExxK3pnQnJFNURtQ28rbz0=>), [Maria Concetta Spinnato](https://sciprofiles.com/profile/author/bGxkTzUzU2JyWVptZGxrc3ZFZXZFSGorQ0xkZ2RPFZEh3T0tsZE9INIC0SDdnaW4xL3RwN1E4ZjZONkYvYg) (<https://sciprofiles.com/profile/author/bGxkTzUzU2JyWVptZGxrc3ZFZXZFSGorQ0xkZ2RPFZEh3T0tsZE9INIC0SDdnaW4xL3RwN1E4ZjZONkYvYg>)

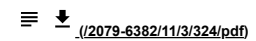
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*Antibiotics* **2022**, *11*(3), 325; <https://doi.org/10.3390/antibiotics11030325> (<https://doi.org/10.3390/antibiotics11030325>) - 28 Feb 2022  
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**Abstract** To cope with stressful conditions, including antibiotic exposure, bacteria activate the SOS response, a pathway that induces error-prone DNA repair and mutagenesis mechanisms. In most bacteria, the SOS response relies on the transcriptional repressor LexA and the co-protease RecA, the latter being also [...] [Read more](#).  
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**Sarecycline Demonstrated Reduced Activity Compared to Minocycline against Microbial Species Representing Human Gastrointestinal Microbiota** (</2079-6382/11/3/324>)

by [Mahmoud A. Ghannoum](https://sciprofiles.com/profile/author/bmRSZnZTQURyQnp6UEZteDZBR1UxQT09) (<https://sciprofiles.com/profile/author/bmRSZnZTQURyQnp6UEZteDZBR1UxQT09>), [Lisa Long](https://sciprofiles.com/profile/author/K1F0aTZxQkp0bVZ5bW4wcjIBSxk5Z09) (<https://sciprofiles.com/profile/author/K1F0aTZxQkp0bVZ5bW4wcjIBSxk5Z09>), [Christopher G. Bunick](https://sciprofiles.com/profile/1193748) (<https://sciprofiles.com/profile/1193748>), [James Q. Del Rosso](https://sciprofiles.com/profile/author/UmZiSWRJmW1TSVFLZXZ6S2NGZEFzTDJ5NIZ1b3VYVzcyM3ZtSmJzdWdpND0=) (<https://sciprofiles.com/profile/author/UmZiSWRJmW1TSVFLZXZ6S2NGZEFzTDJ5NIZ1b3VYVzcyM3ZtSmJzdWdpND0=>), [Ahmed Gamal](https://sciprofiles.com/profile/2065577) (<https://sciprofiles.com/profile/2065577>), [Stephen K. Tyring](https://sciprofiles.com/profile/author/QzE3NWijNllxYkhzL2J1TGU5TzJrVEF1NXBaa0Z5QmVCTkY3Y1Mxv1BqRT0=) (<https://sciprofiles.com/profile/author/QzE3NWijNllxYkhzL2J1TGU5TzJrVEF1NXBaa0Z5QmVCTkY3Y1Mxv1BqRT0=>), [Thomas S. McCormick](https://sciprofiles.com/profile/891151) (<https://sciprofiles.com/profile/891151>) and [Ayman Grada](https://sciprofiles.com/profile/1550379) (<https://sciprofiles.com/profile/1550379>)

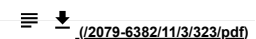
*Antibiotics* **2022**, *11*(3), 324; <https://doi.org/10.3390/antibiotics11030324> (<https://doi.org/10.3390/antibiotics11030324>) - 28 Feb 2022  
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**Abstract** Prolonged use of broad-spectrum tetracycline antibiotics such as minocycline and doxycycline may significantly alter the gut and skin microbiome leading to dysbiosis. Sarecycline, a narrow-spectrum tetracycline-class antibiotic used for acne treatment, is hypothesized to have minimal impact on the gastrointestinal tract microbiota. We [...] [Read more](#).  
(This article belongs to the Special Issue **Antibiotic Treatment in Dermatology** ([/journal/antibiotics/special\\_issues/dermatology\\_antibiotics](/journal/antibiotics/special_issues/dermatology_antibiotics)))

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Open Access Systematic Review



**The Efficacy of Using Combination Therapy against Multi-Drug and Extensively Drug-Resistant *Pseudomonas aeruginosa* in Clinical Settings** (</2079-6382/11/3/323>)

by [Frank Jones](https://sciprofiles.com/profile/author/bVROaS9TOWhKM0FyNEIjSzhqYIZvZVV4RHFwQUpKdIptT3V2a0VuSnRGcz0=) (<https://sciprofiles.com/profile/author/bVROaS9TOWhKM0FyNEIjSzhqYIZvZVV4RHFwQUpKdIptT3V2a0VuSnRGcz0=>), [Yanmin Hu](https://sciprofiles.com/profile/author/eFVLVWo1dGtRQUjJnkZuUnY4L3dqUT09) (<https://sciprofiles.com/profile/author/eFVLVWo1dGtRQUjJnkZuUnY4L3dqUT09>) and [Anthony Coates](https://sciprofiles.com/profile/2001952) (<https://sciprofiles.com/profile/2001952>)  
*Antibiotics* **2022**, *11*(3), 323; <https://doi.org/10.3390/antibiotics11030323> (<https://doi.org/10.3390/antibiotics11030323>) - 28 Feb 2022  
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**Abstract** *Pseudomonas aeruginosa* is a Gram-negative bacterium which is capable of developing a high level of antibiotic resistance. It has been placed on the WHO's critical priority pathogen list and it is commonly found in ventilator-associated pneumonia infections, blood stream infections and other largely [...] [Read more](#).  
(This article belongs to the Special Issue **Combination Therapy of Antimicrobial** ([/journal/antibiotics/special\\_issues/Therapy\\_Anti](/journal/antibiotics/special_issues/Therapy_Anti)))

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**Antimicrobial Potential of Curcumin: Therapeutic Potential and Challenges to Clinical Applications** (</2079-6382/11/3/322>)

by [Yaseen Hussain](https://sciprofiles.com/profile/1249660) (<https://sciprofiles.com/profile/1249660>), [Waqas Alam](https://sciprofiles.com/profile/1739957) (<https://sciprofiles.com/profile/1739957>), [Hammad Ullah](https://sciprofiles.com/profile/author/TkZ4RG9CNOVISEvImZRHdFBRQWJXUS9TMCtKWTRHRHVLanVpK09VUHNWV0=) (<https://sciprofiles.com/profile/author/TkZ4RG9CNOVISEvImZRHdFBRQWJXUS9TMCtKWTRHRHVLanVpK09VUHNWV0=>), [Marco Dacrema](https://sciprofiles.com/profile/1137525) (<https://sciprofiles.com/profile/1137525>), [Maria Daglia](https://sciprofiles.com/profile/111049) (<https://sciprofiles.com/profile/111049>), [Haroon Khan](https://sciprofiles.com/profile/1056383) (<https://sciprofiles.com/profile/1056383>) and [Carla Renata Arciola](https://sciprofiles.com/profile/127037) (<https://sciprofiles.com/profile/127037>)  
*Antibiotics* **2022**, *11*(3), 322; <https://doi.org/10.3390/antibiotics11030322> (<https://doi.org/10.3390/antibiotics11030322>) - 28 Feb 2022  
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**Abstract** Curcumin is a bioactive compound that is extracted from *Curcuma longa* and that is known for its antimicrobial properties. Curcuminoids are the main constituents of curcumin that exhibit antioxidant properties. It has a broad spectrum of antibacterial actions against a wide range of [...] [Read more](#).  
(This article belongs to the Special Issue **New Antibacterial Nanostructured Coatings for Biomedical Applications** ([/journal/antibiotics/special\\_issues/Nanostructure](/journal/antibiotics/special_issues/Nanostructure)))

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**Ceftazidime–Avibactam for the Treatment of Multidrug-Resistant Pathogens: A Retrospective, Single Center Study** ([/2019-6382/11/3/321](#))

by [Maria Di Pietrantonio](#) (<https://sciprofiles.com/profile/author/cmRiSk05R0JxZ2I5OWhkZngvdTlqUm1UVUR1cGtNjNTSkJOdnNpT01vdGRRtk5VzZEcGYwK244TGdEV0JkUg==>)

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
[Andrea Giacometti](#) (<https://sciprofiles.com/profile/author/RDNnOHkvZkhirVYUE03MUNmK0xmRmJKN2VIRnMrNkZWK042czONdTUIArZzhYcXNodFZiUGVvYkp3SIExRA=>) and  
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*Antibiotics* **2022**, *11*(3), 321; <https://doi.org/10.3390/antibiotics11030321> (<https://doi.org/10.3390/antibiotics11030321>) - 28 Feb 2022  
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**Abstract** Background: Ceftazidime/avibactam is a new cephalosporin/beta-lactamase inhibitor combination approved in 2015 by the FDA for the treatment of complicated intra-abdominal and urinary tract infection, hospital-acquired pneumoniae and Gram-negative infections with limited treatment options. Methods: In this retrospective study, we evaluate the efficacy of [...] [Read more](#).  
(This article belongs to the Special Issue [Evaluation of New Molecules in Severe Infectious Diseases](#) ([/journal/antibiotics/special\\_issues/severe\\_infectious\\_diseases](#)))

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**Control of Early Blight Fungus (*Alternaria alternata*) in Tomato by Boric and Phenylboronic Acid** ([/2019-6382/11/3/320](#))

by [Katarina Martinko](#) (<https://sciprofiles.com/profile/2061512>), [Siniša Ivanković](#) (<https://sciprofiles.com/profile/author/TElWR2orSTNMSHE3Z1hzWXZBL0xQZz09>),  
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*Antibiotics* **2022**, *11*(3), 320; <https://doi.org/10.3390/antibiotics11030320> (<https://doi.org/10.3390/antibiotics11030320>) - 28 Feb 2022  
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**Abstract** Finding a suitable alternative to the small pool of existing antifungal agents is a vital task in contemporary agriculture. Therefore, intensive research has been conducted globally to uncover environmentally friendly and efficient agents that can suppress pathogens resistant to the currently used antimycotics. [...] [Read more](#).  
(This article belongs to the Special Issue [Detection and Control of Plant Pathogens](#) ([/journal/antibiotics/special\\_issues/plant\\_disease\\_antibiotics](#)))

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**Elastase-Activated Antimicrobial Peptide for a Safer Pulmonary Treatment of Cystic Fibrosis Infections** ([/2019-6382/11/3/319](#))

by [Margherita Degasperì](#) (<https://sciprofiles.com/profile/author/cVdjQWpsK29SV1hgTVpndUZrT0NSaIzPzSduTmNLM0dDcWIVazNZNUxXcWRIL0FkYkhtSUJjeVE5dHFswXlyYg=>)


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*Antibiotics* **2022**, *11*(3), 319; <https://doi.org/10.3390/antibiotics11030319> (<https://doi.org/10.3390/antibiotics11030319>) - 28 Feb 2022  
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**Abstract** As bioactive small proteins with antimicrobial and immunomodulatory activities that are naturally produced by all living organisms, antimicrobial peptides (AMPs) have a marked potential as next-generation antibiotics. However, their development as antibacterial agents is limited by low stability and cytotoxicity. D-BMAP18, a membrane-permeabilizing [...] [Read more](#).  
(This article belongs to the Special Issue [10th Anniversary of Antibiotics—Feature Papers](#) ([/journal/antibiotics/special\\_issues/10th\\_feature\\_paper](#)))

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**New Biomolecules and Drug Delivery Systems as Alternatives to Conventional Antibiotics** ([/2019-6382/11/3/318](#))







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**Abstract** New approaches to deal with the growing concern associated with antibiotic-resistant bacteria are in high demand [...] [Full article](#) ([/2019-6382/11/3/318](#))  
(This article belongs to the Special Issue [New Biomolecules and Drug Delivery Systems as Alternatives to Conventional Antibiotics](#) ([/journal/antibiotics/special\\_issues/Biomolecules\\_Antibiotics](#)))







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  [\(\(2019-6382/11/3/317/pdf\)\)](#) **Discrepancies in Antimicrobial Susceptibility between the JP2 and the Non-JP2 Genotype of *Aggregatibacter actinomycetemcomitans* ((2019-6382/11/3/317))**by  [Margareta Granlund](https://sciprofiles.com/profile/author/dEIrM0NmT1FFbVnkv2NGK0ZOVGtJR2p5UTBqN2I2NnVHa3JEdraVJMnViND0=) (<https://sciprofiles.com/profile/author/dEIrM0NmT1FFbVnkv2NGK0ZOVGtJR2p5UTBqN2I2NnVHa3JEdraVJMnViND0=>),  [Carola Höglund Åberg](https://sciprofiles.com/profile/author/bEY1NXI5aEVsWTdOdVJSRUtGOWvvdUxONIIxQ1NxTQQ5eGMvV3JGNk1PQT0=) (<https://sciprofiles.com/profile/author/bEY1NXI5aEVsWTdOdVJSRUtGOWvvdUxONIIxQ1NxTQQ5eGMvV3JGNk1PQT0=>),  [Anders Johansson](https://sciprofiles.com/profile/author/VkZUQTRiBxfXrNovcThLQ1E5TERIaiNqVGFSDHnMi9mdzduU0RsQi84Yz0=) (<https://sciprofiles.com/profile/author/VkZUQTRiBxfXrNovcThLQ1E5TERIaiNqVGFSDHnMi9mdzduU0RsQi84Yz0=>) and  [Rolf Claesson](https://sciprofiles.com/profile/978201) (<https://sciprofiles.com/profile/978201>)*Antibiotics* 2022, 11(3), 317; <https://doi.org/10.3390/antibiotics11030317> (<https://doi.org/10.3390/antibiotics11030317>) - 27 Feb 2022

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**Abstract** The *Aggregatibacter actinomycetemcomitans* JP2 genotype is associated with high leukotoxin production and severe (aggressive) periodontitis. The aim of this study was to compare the antimicrobial susceptibility of JP2 and non-JP2 genotype strains. Minimal inhibitory concentrations (MICs) of 11 antimicrobials were determined for 160 [...] **Read more.**(This article belongs to the Topic **Emerging Material-Based Approaches to Chronic and Infectious Diseases** ([/topics/material\\_infectious](/topics/material_infectious)))**Show Figures**[/antibiotics/antibiotics-11-00317/article\\_deploy/html/images/antibiotics-11-00317-g001a-550.jpg](/antibiotics/antibiotics-11-00317/article_deploy/html/images/antibiotics-11-00317-g001a-550.jpg), [/antibiotics/antibiotics-11-00317/article\\_deploy/html/images/antibiotics-11-00317-g001b-550.jpg](/antibiotics/antibiotics-11-00317/article_deploy/html/images/antibiotics-11-00317-g001b-550.jpg), [/antibiotics/antibiotics-11-00317/article\\_deploy/html/images/antibiotics-11-00317-g002-550.jpg](/antibiotics/antibiotics-11-00317/article_deploy/html/images/antibiotics-11-00317-g002-550.jpg), [/antibiotics/antibiotics-11-00317/article\\_deploy/html/images/antibiotics-11-00317-g003-550.jpg](/antibiotics/antibiotics-11-00317/article_deploy/html/images/antibiotics-11-00317-g003-550.jpg)




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  [\(\(2019-6382/11/3/316/pdf\)\)](#) **Identification of Methicillin-Resistant *Staphylococcus aureus* (MRSA) Genetic Factors Involved in Human Endothelial Cells Damage, an Important Phenotype Correlated with Persistent Endovascular Infection ((2019-6382/11/3/316))**by  [Xia Xiao](https://sciprofiles.com/profile/author/NjJjdy9aYVVZnZgwWS9vUjhDQUVYVvM5ZSHBBEfrAvzYxSTERdmJIYU44MD0=) (<https://sciprofiles.com/profile/author/NjJjdy9aYVVZnZgwWS9vUjhDQUVYVvM5ZSHBBEfrAvzYxSTERdmJIYU44MD0=>),  [Yi Li](https://sciprofiles.com/profile/author/dU4wVkp0QVNVQ1pCMEo3TmPCOWpK3BrcHovSGYrdXo1Q1hBYXRCVzBTQ0=) (<https://sciprofiles.com/profile/author/dU4wVkp0QVNVQ1pCMEo3TmPCOWpK3BrcHovSGYrdXo1Q1hBYXRCVzBTQ0=>),  [Liang Li](https://sciprofiles.com/profile/author/QVhmWEh1UjgyZFN5RG9IU1dDtKwzNkiUUGNZVHoweVVMcWhBOFRBeFEvcz0=) (<https://sciprofiles.com/profile/author/QVhmWEh1UjgyZFN5RG9IU1dDtKwzNkiUUGNZVHoweVVMcWhBOFRBeFEvcz0=>) and  [Yanqiong Xiong](https://sciprofiles.com/profile/2044666) (<https://sciprofiles.com/profile/2044666>)*Antibiotics* 2022, 11(3), 316; <https://doi.org/10.3390/antibiotics11030316> (<https://doi.org/10.3390/antibiotics11030316>) - 26 Feb 2022

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**Abstract** Methicillin-resistant *Staphylococcus aureus* (MRSA) is a leading cause of life-threatening endovascular infections. Endothelial cell (EC) damage is a key factor in the pathogenesis of these syndromes. However, genetic factors related to the EC damage have not been well studied. This study aims to [...] **Read more.****Show Figures**[/antibiotics/antibiotics-11-00316/article\\_deploy/html/images/antibiotics-11-00316-g001-550.jpg](/antibiotics/antibiotics-11-00316/article_deploy/html/images/antibiotics-11-00316-g001-550.jpg), [/antibiotics/antibiotics-11-00316/article\\_deploy/html/images/antibiotics-11-00316-g002-550.jpg](/antibiotics/antibiotics-11-00316/article_deploy/html/images/antibiotics-11-00316-g002-550.jpg), [/antibiotics/antibiotics-11-00316/article\\_deploy/html/images/antibiotics-11-00316-g003-550.jpg](/antibiotics/antibiotics-11-00316/article_deploy/html/images/antibiotics-11-00316-g003-550.jpg)





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  [\(\(2019-6382/11/3/315/pdf\)\)](#) **Changing Epidemiology of Respiratory Tract Infection during COVID-19 Pandemic ((2019-6382/11/3/315))**by  [Hung-Jen Tang](https://sciprofiles.com/profile/480832) (<https://sciprofiles.com/profile/480832>),  [Chih-Cheng Lai](https://sciprofiles.com/profile/480715) (<https://sciprofiles.com/profile/480715>) and  [Chien-Ming Chao](https://sciprofiles.com/profile/484150) (<https://sciprofiles.com/profile/484150>)*Antibiotics* 2022, 11(3), 315; <https://doi.org/10.3390/antibiotics11030315> (<https://doi.org/10.3390/antibiotics11030315>) - 25 Feb 2022

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**Abstract** The outbreak of COVID-19 has significantly changed the epidemiology of respiratory tract infection in several ways. The implementation of non-pharmaceutical interventions (NPIs) including universal masking, hand hygiene, and social distancing not only resulted in a decline in reported SARS-CoV-2 cases but also contributed [...] **Read more.****Show Figures**[/antibiotics/antibiotics-11-00315/article\\_deploy/html/images/antibiotics-11-00315-g001-550.jpg](/antibiotics/antibiotics-11-00315/article_deploy/html/images/antibiotics-11-00315-g001-550.jpg)




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  [\(\(2019-6382/11/3/314/pdf\)\)](#) **Why D-Mannose May Be as Efficient as Antibiotics in the Treatment of Acute Uncomplicated Lower Urinary Tract Infections—Preliminary Considerations and Conclusions from a Non-Interventional Study ((2019-6382/11/3/314))**by  [Florian Wagenlehner](https://sciprofiles.com/profile/1783014) (<https://sciprofiles.com/profile/1783014>),  [Horst Lorenz](https://sciprofiles.com/profile/author/SkcvVWh0Q3I3V0NOBUNTUkxIT2JVTWJtZ05RcWJZbmp6TU95d2NONnBnWT0=) (<https://sciprofiles.com/profile/author/SkcvVWh0Q3I3V0NOBUNTUkxIT2JVTWJtZ05RcWJZbmp6TU95d2NONnBnWT0=>),  [Oda Ewald](https://sciprofiles.com/profile/author/OEVzRHJ6UUgremIPRVU5Q3lwYyttNTBORM5wRU5QWHNtSI2SWpUNEgwVT0=) (<https://sciprofiles.com/profile/author/OEVzRHJ6UUgremIPRVU5Q3lwYyttNTBORM5wRU5QWHNtSI2SWpUNEgwVT0=>) and  [Peter Gerke](https://sciprofiles.com/profile/2013970) (<https://sciprofiles.com/profile/2013970>)*Antibiotics* 2022, 11(3), 314; <https://doi.org/10.3390/antibiotics11030314> (<https://doi.org/10.3390/antibiotics11030314>) - 25 Feb 2022

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**Abstract** Urinary tract infections (UTIs) are very frequent in women and can be caused by a range of pathogens. High recurrence rates and increasing antibiotic resistance of uropathogens make UTIs a severe public health problem. D-mannose is a monosaccharide that can inhibit bacterial [...] **Read more.****Show Figures**[/antibiotics/antibiotics-11-00314/article\\_deploy/html/images/antibiotics-11-00314-g001-550.jpg](/antibiotics/antibiotics-11-00314/article_deploy/html/images/antibiotics-11-00314-g001-550.jpg), [/antibiotics/antibiotics-11-00314-g002-550.jpg](/antibiotics/antibiotics-11-00314/article_deploy/html/images/antibiotics-11-00314-g002-550.jpg), [/antibiotics/antibiotics-11-00314-g003-550.jpg](/antibiotics/antibiotics-11-00314/article_deploy/html/images/antibiotics-11-00314-g003-550.jpg), [/antibiotics/antibiotics-11-00314-g004-550.jpg](/antibiotics/antibiotics-11-00314/article_deploy/html/images/antibiotics-11-00314-g004-550.jpg)

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**Abstract** The increasing number of nosocomial pathogens with resistances towards last resort antibiotics, like linezolid for gram positive bacteria, leads to a pressing need for screening and, consequently, suitable screening media. Some national guidelines on infection prevention (e.g., in Germany) have already recommended screening [...] **Read more.**

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  [\(\(2019-6382/11/3/312/pdf\)\)](#) **Recent Trends in Prostate Biopsy Complication Rates and the Role of Aztreonam in Perioperative Antimicrobial Prophylaxis—A Nationwide Population-Based**

## Study from Korea (2019-6382/11/3/312)

by [Woek Nam](https://sciprofiles.com/profile/author/dE1FcTF3T0FOckwzampNL0gxRDzbWVhVzZCV0dkdmNTEWd0eDBNazVCcz0=) (https://sciprofiles.com/profile/author/dE1FcTF3T0FOckwzampNL0gxRDzbWVhVzZCV0dkdmNTEWd0eDBNazVCcz0=),[Min Uk Park](https://sciprofiles.com/profile/author/cXBxN1FvQ3ZzcEiZOTBpL3VJvWR1eFRwWmpUdy8vcXo1WdZmbTduM1krQD0=) (https://sciprofiles.com/profile/author/cXBxN1FvQ3ZzcEiZOTBpL3VJvWR1eFRwWmpUdy8vcXo1WdZmbTduM1krQD0=),[Han Kyu Chae](https://sciprofiles.com/profile/author/cEdYUyPaOaGhoU2NLbzFpVStqcEx6dJg2Wi96YkZcIBOZiPlY0rVrMUViYz0=) (https://sciprofiles.com/profile/author/cEdYUyPaOaGhoU2NLbzFpVStqcEx6dJg2Wi96YkZcIBOZiPlY0rVrMUViYz0=), (Toggle desktop layout cookie)[Jihye Song](https://sciprofiles.com/profile/1282246) (https://sciprofiles.com/profile/1282246),[Han Gwun Kim](https://sciprofiles.com/profile/author/YmdKZ1lvT9WtK4yTzdhRnZtYjJoMFRnR3FmNkduZ0FqdXJvSG9VMnFTaz0=) (https://sciprofiles.com/profile/author/YmdKZ1lvT9WtK4yTzdhRnZtYjJoMFRnR3FmNkduZ0FqdXJvSG9VMnFTaz0=),[Jong Yeon Park](https://sciprofiles.com/profile/author/TCtuTWplQWUzb25CTk91WmFKZFA4MVVvKt3ZxZkl3dmdac1ZWR0VhYII3ST0=) (https://sciprofiles.com/profile/author/TCtuTWplQWUzb25CTk91WmFKZFA4MVVvKt3ZxZkl3dmdac1ZWR0VhYII3ST0=),[Seokjoon Lee](https://sciprofiles.com/profile/author/OFBUQzFUVURyMUJyVGMzZGmSHczbVZEWmxQWE15S3BCTTNJc0ZMR0pCST0=) (https://sciprofiles.com/profile/author/OFBUQzFUVURyMUJyVGMzZGmSHczbVZEWmxQWE15S3BCTTNJc0ZMR0pCST0=) and[Sung Jin Kim](https://sciprofiles.com/profile/author/NVISM3pjQUxnVjBXOTI00U9jb0N3VU9lak5IYUxEODVsdFhRb21rWVJWJT0=) (https://sciprofiles.com/profile/author/NVISM3pjQUxnVjBXOTI00U9jb0N3VU9lak5IYUxEODVsdFhRb21rWVJWJT0=)Antibiotics 2022, 11(3), 312; <https://doi.org/10.3390/antibiotics11030312> (https://doi.org/10.3390/antibiotics11030312) - 25 Feb 2022

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**Abstract** An increase in the rate of complications after prostate biopsy (PB) due to increased antibiotic-resistant bacteria is a global issue. We report the safety of aztreonam as a prophylactic antibiotic in patients undergoing PB. We investigated the complication rates according to several antibiotic [...]. [Read more.](#)

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**Abstract** *Achromobacter* spp. are intrinsically multidrug-resistant environmental microorganisms which are known to cause opportunistic, nosocomial, and sometimes chronic infections. The existing literature yields scarcely any larger datasets, especially with regard to the incidence in patient groups other than those with cystic fibrosis. The aim [...]. [Read more.](#)(This article belongs to the Special Issue **Antimicrobial Resistance and Healthcare Associated Infections** ([/journal/antibiotics/special\\_issues/Antimicrobial\\_Healthcare](#)))

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**Abstract** Controversy exists regarding the optimal treatment of periprosthetic joint infection (PJI), considering control of infection, functional results as well as quality of life. Difficulties in treatment derive from the formation of biofilms within a few days after infection. Biofilms are tolerant to systemically [...]. [Read more.](#)(This article belongs to the Special Issue **Antibiotic Therapy in Prosthetic Joint Infections** ([/journal/antibiotics/special\\_issues/antibiotic\\_joint](#)))


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**Abstract** COVID-19 restrictions have resulted in major changes in healthcare, including the prescribing of antibiotics. We aimed to monitor antibiotic prescribing trends during the COVID-19 pandemic in Dutch general practice, both during daytime and out-of-hours (OOH). Routine care data were used from 379 daytime [...]. [Read more.](#)(This article belongs to the Special Issue **Antibiotics Research in Europe** ([/journal/antibiotics/special\\_issues/Anti\\_Europe](#)))

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**Abstract** A urinary tract infection is amongst the most common bacterial infections in the community and hospital setting and accounts for an estimated 1.6 to 2.14 billion in national healthcare expenditure. Despite its financial impact, the diagnosis is challenging with urine cultures and antibiotics [..] [Read more](#).  
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**Polymyxin Induces Significant Transcriptomic Perturbations of Cellular Signalling Networks in Human Lung Epithelial Cells** ([/2019-6382/11/3/307](#))

by [Mengyao Li](#) (<https://sciprofiles.com/profile/author/dkiORXBpQi91bXVTE5YM1JnTDIRa2JvNnFGTVNDa2lrN0p2SkI2ODRNN0>),  
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*Antibiotics* **2022**, *11*(3), 307; <https://doi.org/10.3390/antibiotics11030307> (<https://doi.org/10.3390/antibiotics11030307>) - 24 Feb 2022

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**Abstract** Inhaled polymyxins are increasingly used to treat pulmonary infections caused by multidrug-resistant Gram-negative pathogens. We have previously shown that apoptotic pathways, autophagy and oxidative stress are involved in polymyxin-induced toxicity in human lung epithelial cells. In the present study, we employed human lung [..] [Read more](#).

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**Resistome Diversity and Dissemination of WHO Priority Antibiotic Resistant Pathogens in Lebanese Estuaries** ([/2019-6382/11/3/306](#))

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*Antibiotics* **2022**, *11*(3), 306; <https://doi.org/10.3390/antibiotics11030306> (<https://doi.org/10.3390/antibiotics11030306>) - 24 Feb 2022

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**Abstract** Anthropogenic pressure is known to be a key driver of antimicrobial resistance (AMR) dissemination in the environment. Especially in lower income countries, with poor infrastructure, the level of AMR dissemination is high. Therefore, we assessed the levels and diversity of antibiotic-resistant bacteria (ARB) [..] [Read more](#).

(This article belongs to the Special Issue [A Themed Issue in Honor of Professor Alexander Tomasz—Outstanding Contributions in the Fields of Antibiotic Resistance and Bacterial Infectious Diseases](#) ([/journal/antibiotics/special\\_issues/Outstanding\\_Antibiotic](#)))

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Open Access Article

**Molecular Characterization of MCR-1 Producing *Enterobacterales* Isolated in Poultry Farms in the United Arab Emirates** ([/2019-6382/11/3/305](#))

by [Agnès Sonnevend](#) (<https://sciprofiles.com/profile/2005170>),  
[Walid Q. Alali](#) (<https://sciprofiles.com/profile/author/U3VRUkhJUNiMzBXs2xFYnhUZDI4aTh2OExiZUN4WDFUQVNackkyM0hEVT0>),  
[Sara A. Mahmoud](#) (<https://sciprofiles.com/profile/2091361>), [Akela Ghazawi](#) (<https://sciprofiles.com/profile/2082148>),  
[Greeshma Bharathan](#) (<https://sciprofiles.com/profile/2040904>), [Szilvia Melegh](#) (<https://sciprofiles.com/profile/2083348>),  
[Tahir A. Rizvi](#) (<https://sciprofiles.com/profile/443755>) and [Tibor Pál](#) (<https://sciprofiles.com/profile/2006249>)

*Antibiotics* **2022**, *11*(3), 305; <https://doi.org/10.3390/antibiotics11030305> (<https://doi.org/10.3390/antibiotics11030305>) - 24 Feb 2022

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**Abstract** Data on the prevalence of MCR-producing *Enterobacterales* of animal origin are scarce from the Arabian Peninsula. We investigated the presence and variety of such strains from fecal specimens of poultry collected in four farms in the United Arab Emirates. Colonies from ten composite [..] [Read more](#).

(This article belongs to the Special Issue [Antibiotic Resistance in Companion and Food-Producing Animals](#) ([/journal/antibiotics/special\\_issues/antibio\\_resis\\_animal](#)))

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Open Access Article

**Machine Learning and Antibiotic Management** ([/2019-6382/11/3/304](#))

by [Riccardo Maviglia](#) (<https://sciprofiles.com/profile/2020576>), [Teresa Michi](#) (<https://sciprofiles.com/profile/1874055>),  
[Davide Passaro](#) (<https://sciprofiles.com/profile/author/VEo2QjdDQIFnV1VPK0FnMDfyNjZWZGhNaVF4SmlZbG13VGR5eUtmZlrT0>),  
[Valeria Raggi](#) (<https://sciprofiles.com/profile/author/ZmFKenBOQknTKhneTRzVKE1UENkM0dGZG82MWhHVDhXUUXa2R5Ky9uZz0>),  
[Maria Grazia Bocci](#) (<https://sciprofiles.com/profile/2085159>), [Edoardo Piervincenzi](#) (<https://sciprofiles.com/profile/2074730>),  
[Giovanna Mercurio](#) (<https://sciprofiles.com/profile/author/QzQrVk56NDJJaFNy3RKZzQwVmrRqSm1wRGCeJfFek9mODh1NjV4Y0IvbFRMRmg5QTdNK3EyVmJMbFIRtRoVA>)

[Monica Lucente](#) (<https://sciprofiles.com/profile/author/Y2JOMk4vb2owN1FIQIJjEJkdW5xcC9CeXgzeGNVTEhmTWVsQ0VsNHpOaz0>) and  
[Rita Murri](#) (<https://sciprofiles.com/profile/1106698>)

*Antibiotics* **2022**, *11*(3), 304; <https://doi.org/10.3390/antibiotics11030304> (<https://doi.org/10.3390/antibiotics11030304>) - 24 Feb 2022

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**Abstract** Machine learning and cluster analysis applied to the clinical setting of an intensive care unit can be a valuable aid for clinical management, especially with the increasing complexity of clinical monitoring. Providing a method to measure clinical experience, a proxy for that automatic [..] [Read more](#).

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Open Access Case Report

**Nosocomial Pneumonia Caused in an Immunocompetent Patient by the Emergent Monophasic ST34 Variant of *Salmonella enterica* Serovar Typhimurium: Treatment-Associated Selection of Fluoroquinolone and Piperacillin/Tazobactam Resistance** (2019-6382/11/3/303)

by [Xenia Vázquez](https://sciprofiles.com/profile/2059773) (<https://sciprofiles.com/profile/2059773>), [Lorena Forcelledo](https://sciprofiles.com/profile/2079351) (<https://sciprofiles.com/profile/2079351>), [Salvador Balboa-Palomino](https://sciprofiles.com/profile/author/dzhSUIBIOTJmWC9uVGRJK3FZnjh2zBJNVm0ekdoOHdUYkwyEvnNTf4RT0) (<https://sciprofiles.com/profile/author/dzhSUIBIOTJmWC9uVGRJK3FZnjh2zBJNVm0ekdoOHdUYkwyEvnNTf4RT0>), [Javier Fernández](https://sciprofiles.com/profile/817020) (<https://sciprofiles.com/profile/817020>) and [María Rosario Rodicio](https://sciprofiles.com/profile/396445) (<https://sciprofiles.com/profile/396445>)

*Antibiotics* **2022**, *11*(3), 303; <https://doi.org/10.3390/antibiotics11030303> (<https://doi.org/10.3390/antibiotics11030303>) - 24 Feb 2022

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**Abstract** The present report describes an uncommon case of nosocomial pneumonia caused by *Salmonella enterica* in an immunocompetent patient. The patient was admitted to ICU of a tertiary hospital due to low level of consciousness, aphasia and seizure episodes. Four days after hospitalization, he [...] [Read more](#).

(This article belongs to the Special Issue **A Themed Issue in Honor of Professor Jordi Vila—Outstanding Contributions in the Fields of Antimicrobial Resistance** ([/journal/antibiotics/special\\_issues/honory\\_SL](https://journal/antibiotics/special_issues/honory_SL)))

Open Access Communication

**Antibacterial Activity of *Solanum torvum* Leaf Extract and Its Synergistic Effect with Oxacillin against Methicillin-Resistant Staphylococci Isolated from Dogs** (2019-6382/11/3/302)

by [Duangdaow Khunbutrsri](https://sciprofiles.com/profile/author/WU94VWUraTdHUJN3RGRQCtQRkdz09) (<https://sciprofiles.com/profile/author/WU94VWUraTdHUJN3RGRQCtQRkdz09>), [Nattakarn Naimon](https://sciprofiles.com/profile/author/Rk9ZTGRvWfPHNFVvU3gxUIVvNHhzUT09) (<https://sciprofiles.com/profile/author/Rk9ZTGRvWfPHNFVvU3gxUIVvNHhzUT09>), [Khomson Satchasataporn](https://sciprofiles.com/profile/2083233) (<https://sciprofiles.com/profile/2083233>), [Natnaree Inthong](https://sciprofiles.com/profile/author/laGpEOE5FRnl2aHjMTUJhdFoxSEnyZz09) (<https://sciprofiles.com/profile/author/laGpEOE5FRnl2aHjMTUJhdFoxSEnyZz09>), [Sarawan Kaewmongkol](https://sciprofiles.com/profile/author/alByaDg0Y3IIT2t3VTnqSkQxYWFsZz09) (<https://sciprofiles.com/profile/author/alByaDg0Y3IIT2t3VTnqSkQxYWFsZz09>), [Samak Sutjarit](https://sciprofiles.com/profile/author/S2hoMjhFUZZcVpLYVZiQU5YiWx2dz09) (<https://sciprofiles.com/profile/author/S2hoMjhFUZZcVpLYVZiQU5YiWx2dz09>), [Chanokchon Setthawongsin](https://sciprofiles.com/profile/author/ElEvS9pb2ZEZHPMTJTMG9GN294NTRTSXBFUk9HcDZqWnlaNIINvNzNQT0) (<https://sciprofiles.com/profile/author/ElEvS9pb2ZEZHPMTJTMG9GN294NTRTSXBFUk9HcDZqWnlaNIINvNzNQT0>) and [Nattakan Meekhanon](https://sciprofiles.com/profile/2005390) (<https://sciprofiles.com/profile/2005390>)

*Antibiotics* **2022**, *11*(3), 302; <https://doi.org/10.3390/antibiotics11030302> (<https://doi.org/10.3390/antibiotics11030302>) - 24 Feb 2022

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**Abstract** Methicillin-resistant staphylococci (MRS) have been considered a veterinary and public health threat that needs to be addressed, as they are known to cause serious infections, with limited therapeutic options. Thus, in this study, we aimed to examine the potential antibacterial activity of the [...] [Read more](#).

(This article belongs to the Special Issue **Antimicrobial Activity of Natural Products and Plants** ([/journal/antibiotics/special\\_issues/antibiotic\\_natural](https://journal/antibiotics/special_issues/antibiotic_natural)))

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Open Access Correction

**Correction: Ishaque et al. Iriflophenone-3-C-β-d Glucopyranoside from *Dryopteris ramosa* (Hope) C. Chr. with Promising Future as Natural Antibiotic for Gastrointestinal Tract Infections**. *Antibiotics* **2021**, *10*, 1128 (2019-6382/11/3/301)

by [Muhammad Ishaque](https://sciprofiles.com/profile/1937552) (<https://sciprofiles.com/profile/1937552>), [Yamin Bibi](https://sciprofiles.com/profile/1373719) (<https://sciprofiles.com/profile/1373719>), [Samha Al Ayoubi](https://sciprofiles.com/profile/author/Tm0vdE9rY284RGxNaCtYcmhtVtDODBvcjlrT2hteFhXNm5oNIR5TTNXST0) (<https://sciprofiles.com/profile/author/Tm0vdE9rY284RGxNaCtYcmhtVtDODBvcjlrT2hteFhXNm5oNIR5TTNXST0>), [Saadia Masood](https://sciprofiles.com/profile/886926) (<https://sciprofiles.com/profile/886926>), [Sobia Nisa](https://sciprofiles.com/profile/1391479) (<https://sciprofiles.com/profile/1391479>) and [Abdul Qayyum](https://sciprofiles.com/profile/1598653) (<https://sciprofiles.com/profile/1598653>)

*Antibiotics* **2022**, *11*(3), 301; <https://doi.org/10.3390/antibiotics11030301> (<https://doi.org/10.3390/antibiotics11030301>) - 24 Feb 2022

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**Abstract** At the request of Dr. Markus Bacher, Dr. Johann Schinnerl, and Dr. Karin Valant-Vetschera, they have been removed as authors of the paper [...] [Full article](#) (2019-6382/11/3/301)

Open Access Editor's Choice Case Report

**Possible COVID-19-Associated Pulmonary Aspergillosis due to *Aspergillus niger* in Greece** (2019-6382/11/3/300)

by [Maria Katsiari](https://sciprofiles.com/profile/author/eUIOaFjRUxWGNKZwDqQTUxaS9LMkRpb0pqcGR2SWJKL0VuQIVyQ052TT0) (<https://sciprofiles.com/profile/author/eUIOaFjRUxWGNKZwDqQTUxaS9LMkRpb0pqcGR2SWJKL0VuQIVyQ052TT0>), [Angelika Mavroidi](https://sciprofiles.com/profile/2038685) (<https://sciprofiles.com/profile/2038685>), [Eleftheria Palla](https://sciprofiles.com/profile/author/OG9keINKTlppdWRYdnBXNTI3Q29zR0pWOHB2STdDM01QUHBwdfJRMEVDTT0) (<https://sciprofiles.com/profile/author/OG9keINKTlppdWRYdnBXNTI3Q29zR0pWOHB2STdDM01QUHBwdfJRMEVDTT0>), [Konstantina Zourla](https://sciprofiles.com/profile/author/cUJiaXpDTkVzTW1lbfMdx0RUdjRkN3THZ5ZzVIMU15Z0tnOE1U3liTT0) (<https://sciprofiles.com/profile/author/cUJiaXpDTkVzTW1lbfMdx0RUdjRkN3THZ5ZzVIMU15Z0tnOE1U3liTT0>), [Theodoros Alonistiotis](https://sciprofiles.com/profile/author/aUIISWdHUld6RXdQVWpLV2p3K1VyRjRnaUp4RGNCQmJFOUrtV25YaHZKMD0) (<https://sciprofiles.com/profile/author/aUIISWdHUld6RXdQVWpLV2p3K1VyRjRnaUp4RGNCQmJFOUrtV25YaHZKMD0>), [Kyriakos Ntorlis](https://sciprofiles.com/profile/author/NOVuZ0ZHqJUwS1Z5M0VsZjRnYnZmTk5mV1pKN2hKSVVWOWFFWUUVZTVYND0) (<https://sciprofiles.com/profile/author/NOVuZ0ZHqJUwS1Z5M0VsZjRnYnZmTk5mV1pKN2hKSVVWOWFFWUUVZTVYND0>), [Charikleia Nikolaou](https://sciprofiles.com/profile/author/SkU1N0JHUUZmMvPOUY2Wlidxk5OdHN0UGM1NVVQTKy4bVdaOdDsQINKQT0) (<https://sciprofiles.com/profile/author/SkU1N0JHUUZmMvPOUY2Wlidxk5OdHN0UGM1NVVQTKy4bVdaOdDsQINKQT0>), [Georgia Vrioni](https://sciprofiles.com/profile/489067) (<https://sciprofiles.com/profile/489067>) and [Athanasios Tsakris](https://sciprofiles.com/profile/79923) (<https://sciprofiles.com/profile/79923>)

*Antibiotics* **2022**, *11*(3), 300; <https://doi.org/10.3390/antibiotics11030300> (<https://doi.org/10.3390/antibiotics11030300>) - 23 Feb 2022

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**Abstract** Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) causes direct damage to the pulmonary epithelium, enabling *Aspergillus* invasion. Rapid progression and high mortality of invasive aspergillosis have been reported. In the present study, we report a rare case of possible COVID-19-associated pulmonary aspergillosis (CAPA) [...] [Read more](#).

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**Pharmacodynamics of Ceftriaxone, Ertapenem, Fosfomycin and Gentamicin in *Neisseria gonorrhoeae*** (2019-6382/11/3/299)

by [Urša Gubenšek](https://sciprofiles.com/profile/author/eXhOQ3loUc5azd6UVhLTEd3VVo5YIBIRkZWYIzvdWdQWDE3RTdpQJB3OD0) (<https://sciprofiles.com/profile/author/eXhOQ3loUc5azd6UVhLTEd3VVo5YIBIRkZWYIzvdWdQWDE3RTdpQJB3OD0>), [Myrthe de Laet](https://sciprofiles.com/profile/author/dmh6cVU2bDU4ZxZy3JwbjJhMXFteWppVkvVvenNvVxJISDRIL2JKcm1YST0) (<https://sciprofiles.com/profile/author/dmh6cVU2bDU4ZxZy3JwbjJhMXFteWppVkvVvenNvVxJISDRIL2JKcm1YST0>), [Sunniva Foerster](https://sciprofiles.com/profile/author/UjBqWUxSS0DdjBCNGNvK2wxVWRkUGw3NUY2MUwyQm9wSmpkzUNheWdzND0) (<https://sciprofiles.com/profile/author/UjBqWUxSS0DdjBCNGNvK2wxVWRkUGw3NUY2MUwyQm9wSmpkzUNheWdzND0>), [Anders Boyd](https://sciprofiles.com/profile/author/QIA0RVBINFwN2xhVHNxd0pvZk1NjZMbdNSYtZDZko2bnJTWnRQYUkrZz0) (<https://sciprofiles.com/profile/author/QIA0RVBINFwN2xhVHNxd0pvZk1NjZMbdNSYtZDZko2bnJTWnRQYUkrZz0>) and [Alje Pieter van Dam](https://sciprofiles.com/profile/1992308) (<https://sciprofiles.com/profile/1992308>)

*Antibiotics* **2022**, *11*(3), 299; <https://doi.org/10.3390/antibiotics11030299> (<https://doi.org/10.3390/antibiotics11030299>) - 23 Feb 2022

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**Abstract** Objectives: To assess the in vitro effect of select antimicrobials on the growth of *N. gonorrhoeae* and its pharmacodynamic parameters. Methods: Time–kill assays were performed on two reference *N. gonorrhoeae* strains (ceftriaxone-resistant WHO X and ceftriaxone-susceptible WHO F) and one clinical *N. gonorrhoeae* [...] [Read more](#).

(This article belongs to the Special Issue **Pharmacokinetic/Pharmacodynamic Models of Antibiotics** ([/journal/antibiotics/special\\_issues/PK\\_Antibiotics](https://journal/antibiotics/special_issues/PK_Antibiotics)))

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Open Access Review

(/2019-6382/11/3/298/pdf)

### Staphyloxanthin as a Potential Novel Target for Deciphering Promising Anti-*Staphylococcus aureus* Agents (/2019-6382/11/3/298)

by [Rana A. Elmesseri](https://sciprofiles.com/profile/2053056) (<https://sciprofiles.com/profile/2053056>), [Sarra E. Saleh](https://sciprofiles.com/profile/1674298) (<https://sciprofiles.com/profile/1674298>), [Heba M. Elsherif](https://sciprofiles.com/profile/2055683) (<https://sciprofiles.com/profile/2055683>), [Ibrahim S. Yahia](https://sciprofiles.com/profile/1500844) (<https://sciprofiles.com/profile/1500844>) and [Khaled M. Aboshanab](https://sciprofiles.com/profile/937653) (<https://sciprofiles.com/profile/937653>)

*Antibiotics* 2022, 11(3), 298; <https://doi.org/10.3390/antibiotics11030298> (<https://doi.org/10.3390/antibiotics11030298>) - 23 Feb 2022  
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**Abstract.** *Staphylococcus aureus* is a fatal Gram-positive pathogen threatening numerous cases of hospital-admitted patients worldwide. The emerging resistance of the pathogen to several antimicrobial agents has pressurized research to propose new strategies for combating antimicrobial resistance. Novel strategies include targeting the virulence factors of [...] [Read more.](#)

(This article belongs to the Topic [Compounds with Medicinal Value](#) ([topics/Compounds\\_Medicinal\\_Value](#)))

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Open Access Article

(/2019-6382/11/3/297/pdf)

### Determination of the Relationships between the Chemical Structure and Antimicrobial Activity of a GAPDH-Related Fish Antimicrobial Peptide and Analogs Thereof (/2019-6382/11/3/297)

by [Samuel Cashman-Kadri](https://sciprofiles.com/profile/2048376) (<https://sciprofiles.com/profile/2048376>), [Patrick Lagüe](https://sciprofiles.com/profile/author/OFkyQG1Cc2UvNkJOtdYxQkxSDFKcG93dmNrouFvaWNPSnpkafzS0puMD0=) (<https://sciprofiles.com/profile/author/OFkyQG1Cc2UvNkJOtdYxQkxSDFKcG93dmNrouFvaWNPSnpkafzS0puMD0=>), [Ismail Fliss](https://sciprofiles.com/profile/1402301) (<https://sciprofiles.com/profile/1402301>) and [Lucie Beaulieu](https://sciprofiles.com/profile/590635) (<https://sciprofiles.com/profile/590635>)

*Antibiotics* 2022, 11(3), 297; <https://doi.org/10.3390/antibiotics11030297> (<https://doi.org/10.3390/antibiotics11030297>) - 23 Feb 2022  
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**Abstract.** The structure–activity relationships and mode of action of synthesized glyceraldehyde-3-phosphate dehydrogenase (GAPDH)-related antimicrobial peptides were investigated. Including the native skipjack tuna GAPDH-related peptide (SJGAP) of 32 amino acid residues (model for the study), 8 different peptide analogs were designed and synthesized to study [...] [Read more.](#)

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### Antimicrobial Prophylaxis for Urologic Procedures in Paediatric Patients: A RAND/UCLA Appropriateness Method Consensus Study in Italy (/2019-6382/11/3/296)

by [Susanna Esposito](https://sciprofiles.com/profile/1080808) (<https://sciprofiles.com/profile/1080808>), [Erika Rigotti](https://sciprofiles.com/profile/2081236) (<https://sciprofiles.com/profile/2081236>), [Alberto Argentino](https://sciprofiles.com/profile/author/dnZ4VtCvQjRWdDVTZEzXVEFOQTn3WgpHeXF0UWFMOWtybZrNvUY4U1JBND0=) (<https://sciprofiles.com/profile/author/dnZ4VtCvQjRWdDVTZEzXVEFOQTn3WgpHeXF0UWFMOWtybZrNvUY4U1JBND0=>), [Caterina Caminiti](https://sciprofiles.com/profile/1485753) (<https://sciprofiles.com/profile/1485753>), [Elio Castagnola](https://sciprofiles.com/profile/1466389) (<https://sciprofiles.com/profile/1466389>), [Laura Lancellata](https://sciprofiles.com/profile/1187361) (<https://sciprofiles.com/profile/1187361>), [Elisabetta Venturini](https://sciprofiles.com/profile/1802489) (<https://sciprofiles.com/profile/1802489>), [Maia De Luca](https://sciprofiles.com/profile/author/UDM3Z2RJNnZhcZn4QUp2ck1qbkxBS1lwQXg5MStnSHBIZjRIMzJ2M0pUYz0=) (<https://sciprofiles.com/profile/author/UDM3Z2RJNnZhcZn4QUp2ck1qbkxBS1lwQXg5MStnSHBIZjRIMzJ2M0pUYz0=>), [Stefania La Grutta](https://sciprofiles.com/profile/1439013) (<https://sciprofiles.com/profile/1439013>), [Mario Lima](https://sciprofiles.com/profile/1330551) (<https://sciprofiles.com/profile/1330551>), [Simonetta Tesoro](https://sciprofiles.com/profile/author/UU1KdkZMTGztT0w0OUxpV1JsaThqSEpnQ3dFujRFZE84Y1ROU013YhXqUT0=) (<https://sciprofiles.com/profile/author/UU1KdkZMTGztT0w0OUxpV1JsaThqSEpnQ3dFujRFZE84Y1ROU013YhXqUT0=>), [Matilde Ciccia](https://sciprofiles.com/profile/author/eE9jYwK1RGMycZQOFcxVDBsWUFVMMW3bCswFR0vzYvdmIVRThQY3pSTT0=) (<https://sciprofiles.com/profile/author/eE9jYwK1RGMycZQOFcxVDBsWUFVMMW3bCswFR0vzYvdmIVRThQY3pSTT0=>), [Annamaria Staiano](https://sciprofiles.com/profile/927894) (<https://sciprofiles.com/profile/927894>), [Giovanni Autore](https://sciprofiles.com/profile/author/OVQ2Y1J2aEZH1VqQ2Vgdk5kLzFBS25GeFFmWkRZZ3pURFpUSU1Jb3V4dz0=) (<https://sciprofiles.com/profile/author/OVQ2Y1J2aEZH1VqQ2Vgdk5kLzFBS25GeFFmWkRZZ3pURFpUSU1Jb3V4dz0=>), [Giorgio Piacentini](https://sciprofiles.com/profile/author/e1kUnFFRkZHUmf6eWI4c0xWNU16aUQzVkfIWXVYMG45cWJHdmQ4UUprTT0=) (<https://sciprofiles.com/profile/author/e1kUnFFRkZHUmf6eWI4c0xWNU16aUQzVkfIWXVYMG45cWJHdmQ4UUprTT0=>), and [Nicola Principi](https://sciprofiles.com/profile/317980) (<https://sciprofiles.com/profile/317980>)

*The Peri-Operative Prophylaxis in Neonatal and Paediatric Age (POP-NeoPed) Study Group* ([/search?authors=The%20Peri-Operative%20Prophylaxis%20in%20Neonatal%20and%20Paediatric%20Age%20%28POP-NeoPed%29%20Study%20Group&orcid=](#))  
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**Abstract.** The main aim of surgical antimicrobial prophylaxis (SAP) in urologic procedures is to prevent bacteraemia, surgical site infections (SSIs), and postoperative urinary tract infections (pUTIs). Guidelines for SAP in paediatric urology are lacking. Only some aspects of this complex topic have been studied. [...] [Read more.](#)

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(/2019-6382/11/3/295/pdf)

### The Risk of *Clostridioides difficile* Recurrence after Initial Treatment with Vancomycin or Fidaxomicin Utilizing Cerner Health Facts (/2019-6382/11/3/295)

by [Ronald G. Hall 2nd](https://sciprofiles.com/profile/722630) (<https://sciprofiles.com/profile/722630>), [Travis J. Cole](https://sciprofiles.com/profile/author/ZjMvWIQRQ0tmMIJYnNjHtXFWMU5RcnRIVHRheE10aFE3d25NUUdMUnBaVT0=) (<https://sciprofiles.com/profile/author/ZjMvWIQRQ0tmMIJYnNjHtXFWMU5RcnRIVHRheE10aFE3d25NUUdMUnBaVT0=>), [Chip Shaw](https://sciprofiles.com/profile/2079898) (<https://sciprofiles.com/profile/2079898>) and [Carlos A. Alvarez](https://sciprofiles.com/profile/author/Yzd0TSs5MkVQZ3h3Z2E2cURQdmU5bVZpVUeRVTImWDFsRURidmRWclZ1WT0=) (<https://sciprofiles.com/profile/author/Yzd0TSs5MkVQZ3h3Z2E2cURQdmU5bVZpVUeRVTImWDFsRURidmRWclZ1WT0=>)

*Antibiotics* 2022, 11(3), 295; <https://doi.org/10.3390/antibiotics11030295> (<https://doi.org/10.3390/antibiotics11030295>) - 23 Feb 2022  
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**Abstract.** (1) Background: Fidaxomicin has been shown to significantly reduce *Clostridioides difficile* infection (CDI) recurrences rates in randomized, controlled trials. However, national data from the Veterans Affairs has called the real-world applicability of these findings into question. Therefore, we conducted a retrospective cohort study [...] [Read more.](#)

(This article belongs to the Special Issue [Antibiotic Therapy for Clostridioides difficile Infections](#) ([/journal/antibiotics/special\\_issues/Antibiotic\\_CDI](#)))

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### Categorisation of Antimicrobial Use in Fijian Livestock Production Systems (/2019-6382/11/3/294)



by [Xavier Khan \(https://sciprofiles.com/profile/1974052\)](https://sciprofiles.com/profile/1974052).[Caroline Rymmer \(https://sciprofiles.com/profile/author/N1VNUm92Zm94cEhVVUdCdFMwN2tJY3NaWUUVUWY1R09uODdoU0xoaVRJTt0=\)](https://sciprofiles.com/profile/author/N1VNUm92Zm94cEhVVUdCdFMwN2tJY3NaWUUVUWY1R09uODdoU0xoaVRJTt0=),[Partha Ray \(https://sciprofiles.com/profile/author/dE12c2x1Y3RPY0I3a2YxWUU5YWdHaGN1eIV6Y0UTG05RGpWTIhVMUo4RT0=\)](https://sciprofiles.com/profile/author/dE12c2x1Y3RPY0I3a2YxWUU5YWdHaGN1eIV6Y0UTG05RGpWTIhVMUo4RT0=) and[Rosemary Lim \(https://sciprofiles.com/profile/1504796\)](https://sciprofiles.com/profile/1504796)*Antibiotics* **2022**, *11*(3), 294; <https://doi.org/10.3390/antibiotics11030294> (<https://doi.org/10.3390/antibiotics11030294>) - 23 Feb 2022

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**Abstract** Antimicrobial resistance (AMR) is a major global threat to human and animal health. The use of antimicrobials in the livestock sector is considered to contribute to AMR. Therefore, a reduction in and prudent use of antimicrobials in livestock production systems have been advocated. [\[...\]](#) [Read more](#).(This article belongs to the Special Issue [Antimicrobial Prescribing and Stewardship, 2nd Volume](#) ([/journal/antibiotics/special\\_issues/Stewardship\\_2nd](#)))**Show Figures**[\(antibiotics/antibiotics-11-00294/article\\_deploy/html/images/antibiotics-11-00294-g001-550.jpg\)](#), [\(antibiotics/antibiotics-11-00294/article\\_deploy/html/images](#)[antibiotics-11-00294-g002-550.jpg\)](#), [\(antibiotics/antibiotics-11-00294/article\\_deploy/html/images/antibiotics-11-00294-g003-550.jpg\)](#)

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[\(2079-6382/11/3/293/pdf\)](#) **Duration of Perioperative Antibiotic Prophylaxis in Open Fractures: A Systematic Review and Critical Appraisal** ([/2079-6382/11/3/293](#))by [Niels Vanvelk \(https://sciprofiles.com/profile/2035771\)](https://sciprofiles.com/profile/2035771),[Baixing Chen \(https://sciprofiles.com/profile/author/Y0I1R3pCQ1h4VnBZL01OMWRuMXViU3doeGhaSU9NNmo1Z3ZzQTZRZTFROVBWZHpKRmRLN2NFNF11VWNteTk5NA==\)](https://sciprofiles.com/profile/author/Y0I1R3pCQ1h4VnBZL01OMWRuMXViU3doeGhaSU9NNmo1Z3ZzQTZRZTFROVBWZHpKRmRLN2NFNF11VWNteTk5NA==)[Esther M. M. Van Lieshout \(https://sciprofiles.com/profile/1421807\)](https://sciprofiles.com/profile/1421807),[Charalampos Zalavras \(https://sciprofiles.com/profile/author/NzlxR1NjWkpBdmUzaElqUWk0dXdWYKR1eFdCK3ByK1VQSWc3UWR3Wldhbz0=\)](https://sciprofiles.com/profile/author/NzlxR1NjWkpBdmUzaElqUWk0dXdWYKR1eFdCK3ByK1VQSWc3UWR3Wldhbz0=),[T. Fintan Moriarty \(https://sciprofiles.com/profile/241824\)](https://sciprofiles.com/profile/241824),[William T. Obremsky \(https://sciprofiles.com/profile/author/WWNJaE9CcJyYk1I0Q3JnYXm0ZnRjQ2pvNThqb3E2TmxStNhRVDm3Y0t0bz0=\)](https://sciprofiles.com/profile/author/WWNJaE9CcJyYk1I0Q3JnYXm0ZnRjQ2pvNThqb3E2TmxStNhRVDm3Y0t0bz0=),[Michael H. J. Verhofstad \(https://sciprofiles.com/profile/author/Q1NjanR3bzZkajg0UGFaK3hBMTd1M09qQW1Ud3Z2S1FZVVPfc3JzSVRIOD0=\)](https://sciprofiles.com/profile/author/Q1NjanR3bzZkajg0UGFaK3hBMTd1M09qQW1Ud3Z2S1FZVVPfc3JzSVRIOD0=) and[Willem-Jan Metsemakers \(https://sciprofiles.com/profile/1597558\)](https://sciprofiles.com/profile/1597558)*Antibiotics* **2022**, *11*(3), 293; <https://doi.org/10.3390/antibiotics11030293> (<https://doi.org/10.3390/antibiotics11030293>) - 23 Feb 2022

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**Abstract** Fracture-related infection (FRI) remains a serious complication in open fracture care. Adequate surgical treatment and perioperative antibiotic prophylaxis (PAP) are key factors influencing the outcome. However, data concerning the optimal duration of PAP is scarce. The aim of this systematic review was to [\[...\]](#) [Read more](#).(This article belongs to the Special Issue [Fracture-Related Infection: An Update on Antimicrobial Therapy](#) ([/journal/antibiotics/special\\_issues/Fracture\\_Infection](#)))**Show Figures**[\(antibiotics/antibiotics-11-00293/article\\_deploy/html/images/antibiotics-11-00293-g001-550.jpg\)](#)

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[\(2079-6382/11/3/293/pdf\)](#) **In Vitro Efficacy of Antibiotic Combinations with Carbapenems and Other Agents against Anaerobic Bacteria** ([/2079-6382/11/3/292](#))by [Takumi Umemura \(https://sciprofiles.com/profile/author/TGdPWlpJNTRJTIWwM9OVI4VFVzVtTMU5sOE9WTTIENVpYMUg4M0FkVT0=\)](https://sciprofiles.com/profile/author/TGdPWlpJNTRJTIWwM9OVI4VFVzVtTMU5sOE9WTTIENVpYMUg4M0FkVT0=),[Mao Hagihara \(https://sciprofiles.com/profile/1405725\)](https://sciprofiles.com/profile/1405725),[Takeshi Mori \(https://sciprofiles.com/profile/author/OVRtWFRZc04zUxPqaGUvL1N3emxteXVSZkRFL1B6MGZoRW9MekxZdnNtT0=\)](https://sciprofiles.com/profile/author/OVRtWFRZc04zUxPqaGUvL1N3emxteXVSZkRFL1B6MGZoRW9MekxZdnNtT0=) and[Hiroshige Mikamo \(https://sciprofiles.com/profile/1377474\)](https://sciprofiles.com/profile/1377474)*Antibiotics* **2022**, *11*(3), 292; <https://doi.org/10.3390/antibiotics11030292> (<https://doi.org/10.3390/antibiotics11030292>) - 22 Feb 2022

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**Abstract** We investigated the in vitro efficacy of combinations of carbapenems with clindamycin (CLDM) and minocycline (MINO) against *Bacteroides fragilis* and *Peptostreptococcus* species. We selected the carbapenems imipenem, meropenem, panipenem, doripenem, and biapenem. To evaluate the antibiotic efficacy of these combination regimens, the fractional [\[...\]](#) [Read more](#).(This article belongs to the Special Issue [Combination Therapy against Multidrug-Resistant Pathogens](#) ([/journal/antibiotics/special\\_issues/therapy\\_multidrug](#)))**Show Figures**[\(antibiotics/antibiotics-11-00292/article\\_deploy/html/images/antibiotics-11-00292-g001-550.jpg\)](#)

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[\(2079-6382/11/3/291/pdf\)](#) **In Vitro Screening of a 1280 FDA-Approved Drugs Library against Multidrug-Resistant and Extensively Drug-Resistant Bacteria** ([/2079-6382/11/3/291](#))by [Lucie Peyclit \(https://sciprofiles.com/profile/1598017\)](https://sciprofiles.com/profile/1598017), [Sophie Alexandra Baron \(https://sciprofiles.com/profile/1447314\)](https://sciprofiles.com/profile/1447314),[Linda Hadjadj \(https://sciprofiles.com/profile/1946168\)](https://sciprofiles.com/profile/1946168) and [Jean-Marc Rolain \(https://sciprofiles.com/profile/155478\)](https://sciprofiles.com/profile/155478)*Antibiotics* **2022**, *11*(3), 291; <https://doi.org/10.3390/antibiotics11030291> (<https://doi.org/10.3390/antibiotics11030291>) - 22 Feb 2022

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**Abstract** Alternative strategies against multidrug-resistant (MDR) bacterial infections are suggested to clinicians, such as drug repurposing, which uses rapidly available and marketed drugs. We gathered a collection of MDR bacteria from our hospital and performed a phenotypic high-throughput screening with a 1280 FDA-approved drug [\[...\]](#) [Read more](#).(This article belongs to the Special Issue [Advances in the Discovery of Novel Antibiotics](#) ([/journal/antibiotics/special\\_issues/Drugs\\_Repurposing](#)))**Show Figures**[\(antibiotics/antibiotics-11-00291/article\\_deploy/html/images/antibiotics-11-00291-g001-550.jpg\)](#), [\(antibiotics/antibiotics-11-00291/article\\_deploy/html/images](#)[antibiotics-11-00291-g002-550.jpg\)](#), [\(antibiotics/antibiotics-11-00291/article\\_deploy/html/images/antibiotics-11-00291-g003-550.jpg\)](#)

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[\(2079-6382/11/3/290/pdf\)](#) **Effect of Antibiotic Prophylaxis on Surgical Site Infection in Thyroid and Parathyroid Surgery: A Systematic Review and Meta-Analysis** ([/2079-6382/11/3/290](#))by [Andrea Polistena \(https://sciprofiles.com/profile/1728018\)](https://sciprofiles.com/profile/1728018), [Francesco Paolo Prete \(https://sciprofiles.com/profile/1997317\)](https://sciprofiles.com/profile/1997317),[Stefano Avenia \(https://sciprofiles.com/profile/author/ejgwalEyemlaSm1pVmlsYVdwaTM0R3A4VVZzUhnjZGtLTWhaaTIHT0dKz0=\)](https://sciprofiles.com/profile/author/ejgwalEyemlaSm1pVmlsYVdwaTM0R3A4VVZzUhnjZGtLTWhaaTIHT0dKz0=),[Giuseppe Cavallaro \(https://sciprofiles.com/profile/1329002\)](https://sciprofiles.com/profile/1329002), [Giovanna Di Meo \(https://sciprofiles.com/profile/1610199\)](https://sciprofiles.com/profile/1610199),[Alessandro Pasculli \(https://sciprofiles.com/profile/1646523\)](https://sciprofiles.com/profile/1646523),[Fabio Rondelli \(https://sciprofiles.com/profile/author/NjZSSjIDVytM2zRNVUvM0FTa2FhQVFyMVduRElzbzN5OvWVmek5uN1AzRT0=\)](https://sciprofiles.com/profile/author/NjZSSjIDVytM2zRNVUvM0FTa2FhQVFyMVduRElzbzN5OvWVmek5uN1AzRT0=),[Alessandro Sanguinetti \(https://sciprofiles.com/profile/2042961\)](https://sciprofiles.com/profile/2042961),[Lucia Ilaria Sgaramella \(https://sciprofiles.com/profile/author/dk52NmI0Mk11T21RZThTktIRzdHRFVzL0dxUVBMT0xMYXE4QTJ6MIIEM2ZpWnNBQTFwR2N0ck9jMnFUV1gxbg\)](https://sciprofiles.com/profile/author/dk52NmI0Mk11T21RZThTktIRzdHRFVzL0dxUVBMT0xMYXE4QTJ6MIIEM2ZpWnNBQTFwR2N0ck9jMnFUV1gxbg)[Nicola Avenia \(https://sciprofiles.com/profile/author/WXZyeDRucHN0akVmY0UzK3QR2RJOXhmNmoyYWNsmkFnSTIsNTNOOE92az0=\)](https://sciprofiles.com/profile/author/WXZyeDRucHN0akVmY0UzK3QR2RJOXhmNmoyYWNsmkFnSTIsNTNOOE92az0=),[Mario Testini \(https://sciprofiles.com/profile/1605943\)](https://sciprofiles.com/profile/1605943) and[Angela Gurrado \(https://sciprofiles.com/profile/author/cnhBUjRwdmpwT0thWmNyVEtBWHIIN0FiakhQS2dieEI1U2owWDhIRkExc0=\)](https://sciprofiles.com/profile/author/cnhBUjRwdmpwT0thWmNyVEtBWHIIN0FiakhQS2dieEI1U2owWDhIRkExc0=)*Antibiotics* **2022**, *11*(3), 290; <https://doi.org/10.3390/antibiotics11030290> (<https://doi.org/10.3390/antibiotics11030290>) - 22 Feb 2022

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**Abstract** Thyroid and parathyroid surgery are considered clean procedures, with an incidence of surgical site infection (SSI) after thyroidectomy ranging from 0.09% to 2.9%. International guidelines do not recommend routine antibiotic prophylaxis (AP), while AP seems to be employed commonly in clinical practice. The [\[...\]](#) [Read more](#).(This article belongs to the Special Issue [Antibiotic Prophylaxis for Surgical Site Infection in General Surgery](#) ([/journal/antibiotics/special\\_issues](#)

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**Surgical Antimicrobial Prophylaxis in Patients of Neonatal and Pediatric Age Undergoing Orthopedic and Hand Surgery: A RAND/UCLA Appropriateness Method Consensus Study** (2079-6382/11/3/289)

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[Sonia Bianchini](#) (<https://sciprofiles.com/profile/author/M3hIUWU2YXk3Ym0xWldBVDRiZ2JBUHJC TDRIT2N29QcmRid0YK3gycz0=>),

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**Abstract** Surgical site infections (SSIs) represent a potential complication in any type of surgery and can occur up to one year after the procedure in the case of implant placement. In the field of orthopedic and hand surgery, the rate of SSIs is a [...] [Read more](#).

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**Surveillance of Antimicrobial Resistance in Hospital Wastewater: Identification of Carbapenemase-Producing *Klebsiella* spp.** (2079-6382/11/3/288)

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*Antibiotics* 2022, 11(3), 288; <https://doi.org/10.3390/antibiotics11030288> (<https://doi.org/10.3390/antibiotics11030288>) - 22 Feb 2022

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**Abstract** The objective of this study was to investigate the presence and persistence of carbapenemase-producing *Klebsiella* spp. isolated from wastewater and treated wastewater from two tertiary hospitals in Mexico. We conducted a descriptive cross-sectional study in two hospital wastewater treatment plants, which were sampled [...] [Read more](#).

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**What Is the Most Effective Empirical Antibiotic Treatment for Early, Delayed, and Late Fracture-Related Infections?** (2079-6382/11/3/287)

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**Abstract** Vancomycin-resistant enterococci (VRE) are a major concern as microorganisms with antimicrobial resistance and as a public health threat contributing significantly to morbidity, mortality, and socio-economic costs. Among VREs, vancomycin-resistant *Enterococcus faecium* (VREfm) is frequently isolated and is resistant to many antibiotics used to [...] [Read more](#).

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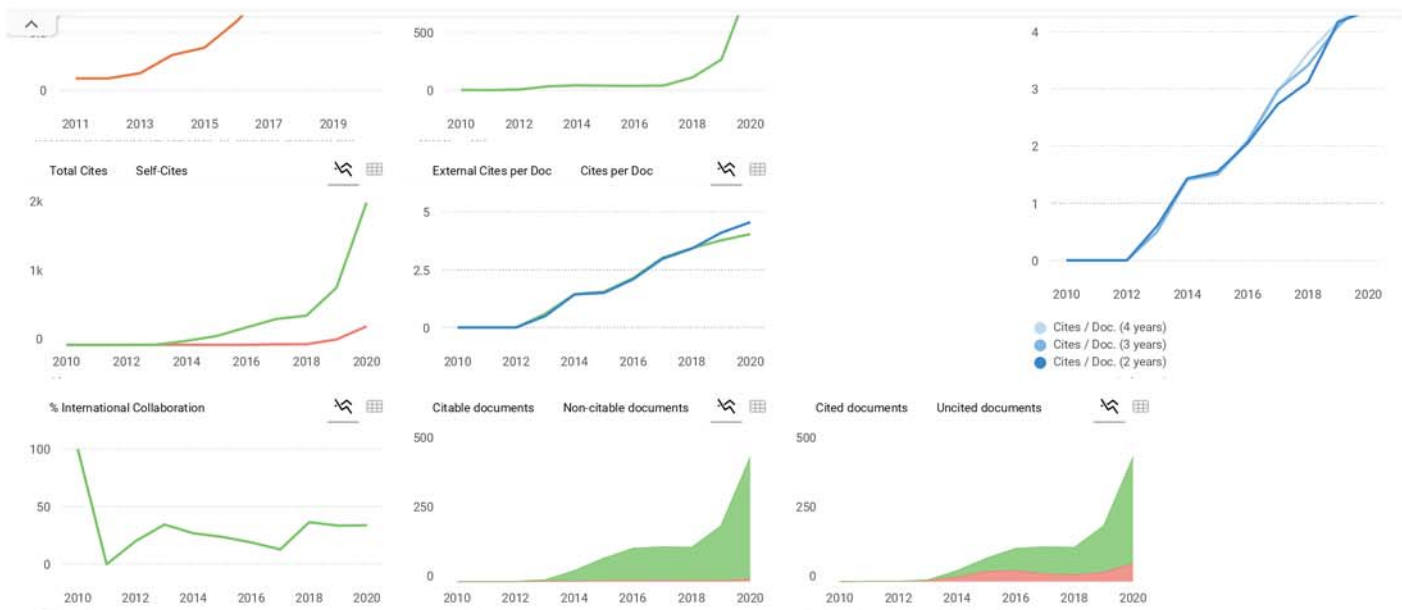
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