

Anthraquinones from Marine-Derived Fungi

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Website (<http://www.bakerchemistry.com>)

Editor-in-Chief

Department of Chemistry, University of South Florida, 4202 E. Fowler Ave., CHE 205, Tampa, FL 33620-5250, USA

Interests: biodiscovery; cold-water chemistry; infectious disease drug discovery; marine invertebrates; fungi, algae; chemical ecology; biosynthesis; genome mining

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Website (<https://www2.cimmar.up.pt/team.php?id=46>)

Associate Editor

Instituto de Ciências Biomédicas Abel Salazar & CIIMAR Universidade do Porto, Porto, Portugal

Interests: antibacterial compounds from higher plants; marine invertebrates; soil and marine-derived fungi; cosmetic ingredients from marine resources; natural biopesticides

* Section Editor-in-Chief: Structural Studies on Marine Natural Products

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Prof. Dr. Vassilios Roussis (<https://sciprofiles.com/profile/6503>) *

Website (https://en.pharm.uoa.gr/people/faculty/pharmacognosy_chemistry_of_natural_products/roussis_vassilios/)

Associate Editor

Department of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece

Interests: biomedical applications; electrospinning; nanofibers; hybrid materials; marine biopolymers

* Section Editor-in-Chief: Marine Chemoecology for Drug Discovery

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Prof. Dr. Claudiu T. Supuran (<https://sciprofiles.com/profile/11180>)

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) **Website** (<https://www.unifi.it/cercachi-per-134.html>)

Associate Editor

Neurofarba Department, Section of Farmaceutical and Neutraceutical Sciences, University of Florence, 50019 Sesto Fiorentino, Florence, Italy

Interests: drug design; metalloenzymes; carbonic anhydrases; anticancer agents; anti-infectives; sulfonamides; coumarins

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Prof. Dr. Marialuisa Menna (<https://sciprofiles.com/profile/7605>) *

Website (<https://www.docenti.unina.it/#!/professor/4d415249414c554953414d454e4e414d4e4e4d4c5336315235314735363843/riferimenti>)

Associate Editor

Department of Pharmacy, School of Medicine and Surgery, University of Naples Federico II, Via Domenico Montesano, 49 – 80131, Naples, Italy

Interests: natural products chemistry; NMR spectroscopy; small molecules structure elucidation; bioactive marine metabolites; synthetic and medicinal chemistry; chemical libraries; marine-inspired leads to drugs

* Section Editor-in-Chief: Synthesis and Medicinal Chemistry of Marine Natural Products

Special Issues, Collections and Topics in MDPI journals



Dr. Hitoshi Sashiwa (<https://sciprofiles.com/profile/12215>)

Website (<http://publicationslist.org/h.sashiwa>)

Associate Editor

Kaneka Co., Ltd, 5-1-1 Torikai-Nishi, Settsu, Osaka 566-0072, Japan

Interests: chemical modification of chitin and chitosan and their biomedical applications; biodegradable polymer; bio-based polymer

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Dr. Ipek Kurtboke (<https://sciprofiles.com/profile/657>) *

Website (<https://www.usc.edu.au/staff/dr-ipek-kurtboke>)

Associate Editor

School of Science, Technology and Engineering, University of the Sunshine Coast, Maroochydore BC, QLD 4558, Australia

Interests: microbial ecology and diversity; microbial systematics; biodiscovery; microbial biotechnology applied; environmental and industrial microbiology; marine microbiology; biological control; actinomycetology; bacteriophages

* Section Editor-in-Chief: Marine Biotechnology Related to Drug Discovery or Production

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Website (<https://bmcc.mysciencework.com/>)

Associate Editor

Department of Pharmacy, College of Pharmacy, Seoul National University, Building 29 Room 223, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea

Interests: oncology; signal transduction; cell death; inflammation

* Section Editor-in-Chief: Marine Pharmacology

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Prof. Dr. Yue-Wei Guo (<https://sciprofiles.com/profile/322007>) *

Website (http://sourcedb.simm.cas.cn/yw/zjcyw/201111/t20111121_3398776.html)

Associate Editor

Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China

Interests: marine fauna and flora; chemistry and bioactivity of natural products; marine chemoecology; marine drug research

* Section Editor-in-Chief: Marine-Derived Ingredients for Drugs, Cosmeceuticals and Nutraceuticals

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Website (<https://gepris.dfg.de/gepris/person/108441041?context=person&task=showDetail&id=108441041&>)

Section Editor-in-Chief

Institute of Electronics and Sensor Materials, TU Bergakademie Freiberg, 09599 Freiberg, Germany

Interests: biomineralization; biomaterials; biocomposites; extreme biomimetics

* Section: Biomaterials of Marine Origin

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Dr. Andrew Turner (<https://sciprofiles.com/profile/98046>) *

Website (<https://www.cefas.co.uk/icoe/seafood-safety/people/andrew-turner/>)

Section Editor-in-Chief

Centre for Environment, Fisheries and Aquaculture Science, Weymouth Laboratory, Lowestoft, UK

Interests: assessment of new marine toxin threats; cyanobacterial toxins; method development; reference materials; rapid testing methods; one health impacts

* SEIC of Marine Toxins

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Prof. Dr. David Adams (<https://sciprofiles.com/profile/12821>)

Website (<https://www.rmit.edu.au/contact/staff-contacts/academic-staff/a/adams-professor-david-j>)

Editorial Board Member

Illawarra Health and Medical Research Institute (IHMRI), University of Wollongong, Wollongong, NSW 2522, Australia

Interests: acetylcholine nicotinic receptors; voltage-gated ion channels; venom peptides; conotoxins; structure-function relationship; electrophysiology; nociception

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Dr. Vinayak Agarwal (<https://sciprofiles.com/profile/970642>)

Website (<https://chemistry.gatech.edu/people/agarwal/vinayak>)

Editorial Board Member

Georgia Institute of Technology, Atlanta, GA, USA

Interests: natural products; genomics; mass spectrometry; analytical chemistry



Prof. Dr. Fernando Albericio (<https://sciprofiles.com/profile/11221>)

Website (<https://orcid.org/0000-0002-8946-0462>)

Editorial Board Member

1. Peptide Science Laboratory, School of Chemistry and Physics, University of KwaZulu-Natal, Durban 4001, South Africa

2. CIBER-BBN (Networking Centre on Bioengineering, Biomaterials and Nanomedicine) and Department of Organic Chemistry, University of Barcelona, 08028 Barcelona, Spain

Interests: organic chemistry; organic synthesis; peptides; mechanisms of action; interaction of peptides with eukaryotic and prokaryotic cells

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Prof. Dr. Paula B. Andrade (<https://sciprofiles.com/profile/3977>)

Website (https://sigarra.up.pt/ffup/en/func_geral/formview?p_codigo=230912)

Editorial Board Member

REQUIMTE/LAQV, Laboratory of Pharmacognosy, Faculty of Pharmacy, University of Porto, Rua de Jorge Viterbo Ferreira 228, 4050-313 Porto, Portugal

Interests: metabolite profiling of natural matrices; natural agents for inflammation; neurodegenerative disorders

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Dr. Yaroslav A. Andreev (<https://sciprofiles.com/profile/256575>)

Website (<http://www.ibch.ru/en/structure/groups/nrn/134>)

Editorial Board Member

1. Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, RAS, GSP-7, ul. Miklukho-Maklaya, 16/10, 117997 Moscow, Russia

2. Institute of Molecular Medicine, Sechenov First Moscow State Medical University, 119991 Moscow, Russia

Interests: neuronal receptors, peptides, biologically active substances, neurons, inflammation, pain, recombinant proteins, ASIC channels, TRP channels, antimicrobial peptides

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Prof. Dr. Qiang Ao (<https://sciprofiles.com/profile/1606578>)

Website (<https://www.researchgate.net/profile/Qiang-Ao>)

Editorial Board Member

NMPA Key Laboratory for Quality Research and Control of Tissue Regenerative Biomaterial & Institute of Regulatory Science for Medical Device & National Engineering

Research Center for Biomaterials, Sichuan University, Chengdu 610064, China

Interests: biomaterials; tissue engineering; medical device; stem cells; regenerative medicine

Dr. Masayoshi Arai (<https://sciprofiles.com/profile/7276>)

Website (<http://www.dma.jim.osaka-u.ac.jp/view?l=en&u=2572>)

Editorial Board Member

Laboratory of Natural Products for Drug Discovery, Graduate School of Pharmaceutical Sciences, Osaka University, 1-6 Yamadaoka, Suita, Osaka 565-0871, Japan

Interests: marine natural products; chemical biology; drug discovery

Prof. Dr. Hugo Rubén Arias (<https://sciprofiles.com/profile/1528510>)

Website (<https://scholars.okstate.edu/en/persons/hugo-arias>)

Editorial Board Member

OSU College of Osteopathic Medicine, Tulsa, OK, USA

Interests: ligand-gated ion channels; nicotinic acetylcholine receptors; GABAergic receptors; depression and antidepressants; anxiety and anxiolytics; Alzheimer's disease;

schizophrenia; chronic pain; addictions

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Prof. Dr. Vincenzo Arizza (<https://sciprofiles.com/profile/383220>)

Website (<https://scholar.google.it/citations?user=YsHbM54AAAAJ&hl=it>)

Editorial Board Member

Department of Biological Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Palermo, Italy

Interests: isolation and characterization of bioactive peptides from marine invertebrate; bioprospecting of bioactive molecules from biomass deriving from the industrial

processing of marine animals



Prof. Dr. Conxita Avila

Website (<https://webgrec.ub.edu/webpages/000011/ang/conxita.avila.ub.edu.html>)

Editorial Board Member

Department of Evolutionary Biology, Ecology and Environmental Sciences (BEECA), Faculty of Biology, and Biodiversity Research Institute (IrBIO), University of Barcelona,

Diagonal 643, 08028 Barcelona, Spain

Interests: marine invertebrates; marine chemical ecology and Antarctic benthos



Prof. Dr. Francesc Xavier Avilés (<https://sciprofiles.com/profile/213488>)

Website (<https://www.uab.cat/web/departament/departament-staff/directory/-1345778638029.html?param1=null¶m2=1345726299966>)

Editorial Board Member

Institute for Biotechnology and Biomedicine, Universitat Autònoma de Barcelona, Campus Universitari, Bellaterra, Cerdanyola del Vallès, 08193 Bellaterra, Spain

Interests: proteolytic enzymes and inhibitors; natural/synthetic inhibitors and ligands; structure-function; proteomics; molecular imaging; drug-discovery and screening.

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Prof. Dr. Asunción Barbero (<https://sciprofiles.com/profile/321830>)

Website (<https://orcid.org/0000-0001-6825-7775>)

Editorial Board Member

Departamento de Química Orgánica, Valladolid, Spain

Interests: synthesis of heterocycles; organosilanos; natural products; stereoselective cyclizations

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Prof. Dr. Colin Barrow (<https://sciprofiles.com/profile/12565>)

Website (<http://www.deakin.edu.au/about-deakin/people/colin-barrow>)

Editorial Board Member

Centre for Chemistry and Biotechnology, School of Life and Environmental Sciences, Faculty of Science, Engineering and Built Environment, Deakin University, 75 Pigdons Road,

Geelong, VIC 3216, Australia

Interests: marine bioactives; lipases; omega-3; nanomaterials; graphene; biotechnology

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Prof. Dr. Louis R. Barrows (<https://sciprofiles.com/profile/11474>)

Website (<https://medicine.utah.edu/faculty/mdetail.php?facultyID=u0034827>)

Editorial Board Member

Department of Pharmacology and Toxicology, College of Pharmacy, University of Utah, 30 S. 2000 E., Salt Lake City, UT 94112-5820, USA

Interests: anti-bacterial; anti-viral; anti-parasitic and anti-cancer pharmacology of marine natural products; biochemical and biological properties of pyridoadridines



Prof. Dr. Yehuda Benayahu (<https://sciprofiles.com/profile/356228>)

Website1 (<https://en-lifesci.tau.ac.il/profile/yehudab>) **Website2** (<https://www.benayahumarlabsites.tau.ac.il/>)

Editorial Board Member

School of Zoology, George S. Wise Faculty of Life Science, Tel Aviv University, Ramat Aviv, Tel Aviv 6997801, Israel

Interests: soft coral taxonomy and biology; symbiotic algae; marine invertebrates; biomaterials; marine natural products and environmentally-friendly antifouling paints

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Prof. Dr. Mehdi A. Beniddir (<https://sciprofiles.com/profile/677334>)

Website (<https://www.biocis.universite-paris-saclay.fr/?-BENIDDIR-Mehdi->)

Editorial Board Member

Équipe "Pharmacognosie-Chimie des Substances Naturelles" BioCIS, CNRS, Université Paris-Saclay, 92290 Châtenay-Malabry, France

Interests: natural products; chemoinformatics; metabolomics pipelines

Special Issues, Collections and Topics in MDPI journals

Dr. Kirsten Benkendorff (<https://sciprofiles.com/profile/17662>)

Website (<https://www.scu.edu.au/marine-ecology-research-centre/people/kirsten-benkendorff/>)

Editorial Board Member

Marine Ecology Research Centre, Southern Cross University, PO Box 157, Military Road, Lismore NSW 2480, Australia

Interests: bioactive compounds from marine molluscs; marine pigments and dyes; molluscan immune systems

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Prof. Dr. John P. Berry (<https://sciprofiles.com/profile/11174>)

Website (<https://case.fiu.edu/about/directory/people/berryj.html>)

Editorial Board Member

Department of Chemistry and Biochemistry, Florida International University (FIU), 354/332 Marine Science, Biscayne Bay Campus, 3000 NE 151st St., North Miami, FL 33181, USA

Interests: cyanobacteria; toxins; bioactive compounds; zebrafish embryo model; natural products

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Prof. Dr. John W. Blunt (<https://sciprofiles.com/profile/10593>)

★ (<https://recognition.webofscience.com/awards/highly-cited/2021/>) **Website** (<http://www.canterbury.ac.nz/science/contact-us/people/john-blunt.html>)

Editorial Board Member

Department of Chemistry, University of Canterbury, PB 4800, Christchurch, New Zealand

Interests: marine natural products; bioactive natural products; nuclear magnetic resonance spectroscopy



Dr. Andrea Bourdelais (<https://sciprofiles.com/profile/11227>)

Website (<https://uncw.edu/aquaculture/people/fac-staff.html>)

Editorial Board Member

Center for Marine Science, University of North Carolina at Wilmington, 5600 Marvin K. Moss Lane, Wilmington, NC 28409, USA

Interests: isolation and structure elucidation of bioactive marine natural products; polyether compounds; bioassay screening; high content screening; quantitative analysis of marine toxins; harmful algal blooms; Florida red tide; marine dinoflagellates

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Prof. Dr. Nathalie Bourguignon (<https://sciprofiles.com/profile/99237>)

Website (<https://expertes.fr/expertes/69225-nathalie-bourguignon/>)

Editorial Board Member

Laboratoire de Biotechnologie et Chimie Marines, Université Bretagne Sud, 56017 Vannes, France

Interests: phycolgy; marine molecules; extraction eco-friendly processes; antiviral agents; SAR studies

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Dr. Marie-Lise Bourguet-Kondracki (<https://sciprofiles.com/profile/7650>)

Website (<https://mcam.mnhn.fr/fr/annuaire/marie-lise-bourguet-kondracki-368>)

Editorial Board Member

Molécules de Communication et Adaptation des Microorganismes, UMR 7245 CNRS, Muséum National d'Histoire Naturelle, 57 rue Cuvier (CP54), 75005 Paris, France

Interests: marine natural product chemistry; marine sponges; marine microbiology; marine chemical ecology; bioactivity

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Bruce F. Bowden (<https://sciprofiles.com/profile/10594>)

Website (<https://research.jcu.edu.au/portfolio/bruce.bowden/>)

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

Chemistry, School of Pharmacy and Molecular Sciences, James Cook University, Townsville 4811 Queensland, Australia

Interests: natural products; marine; pharmacologically active; cytotoxic; structure elucidation

Prof. Dr. Tim Bugni (<https://sciprofiles.com/profile/896035>)
Website (https://apps.pharmacy.wisc.edu/sopdir/tim_bugni/)

Editorial Board Member

Pharmaceutical Sciences Division, School of Pharmacy, University of Wisconsin, Madison, WI 53705, USA

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Interests: marine natural products chemistry; symbiotic microorganisms; drug discovery; metabolomics; and NMR and MS for structure elucidation of novel natural products



Dr. Ricardo Calado (<https://sciprofiles.com/profile/149179>)
Website (<http://www.cesam.ua.pt/ricardocalado>)

Editorial Board Member

ECOMARE & CESAM & Department of Biology, University of Aveiro, 3810-193 Aveiro, Portugal

Interests: fatty acids; LC-PUFA; marine invertebrates; DHA; marine biotechnology; marine aquaculture

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Prof. Dr. Robert J. Capon (<https://sciprofiles.com/profile/78497>)
Website (<https://imb.uq.edu.au/profile/1097/rob-capon>)

Editorial Board Member

Institute for Molecular Bioscience, The University of Queensland, Carmody Road, St Lucia 4072, Queensland, Australia

Interests: biodiscovery; marine and microbial natural products chemistry; biomimetic synthesis

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Prof. Dr. Shmuel Carmeli (<https://sciprofiles.com/profile/58118>)
Website (<https://en-exact-sciences.tau.ac.il/profile/carmeli>)

Editorial Board Member

School of Chemistry, Tel Aviv University, Ramat-Aviv, Israel

Interests: biosynthesis; biological activity of natural products isolated from marine organisms and microorganisms; antibacterial and anticancer drugs

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Prof. Dr. Agostino Casapullo (<https://sciprofiles.com/profile/44433>)
Website (<https://docenti.unisa.it/003789/home>)

Editorial Board Member

Department of Pharmacy, University of Salerno, via Giovanni Paolo II 132, 84084 Fisciano, Italy

Interests: marine natural products; structure elucidation; chemical proteomics; target discovery; bioorganic chemistry

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Prof. Dr. Benoît Chénais (<https://sciprofiles.com/profile/285131>)
Website (<https://www.researchgate.net/profile/Benoit-Chenais>)

Editorial Board Member

BIOSSE (Biology of Organisms: Stress, Health, Environment), UFR Sciences et Techniques, Le Mans Université, CEDEX 9, F-72085 Le Mans, France

Interests: cancer cell biology; DNA repair; transposable elements; bioactive molecules; gene expression; stress response; microalgae

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Dr. Giuseppina Chianese (<https://sciprofiles.com/profile/270277>)

Website (<https://www.docenti.unina.it/#!/professor/47495553455050494e41434849414e45534543484e4750503832543639463833394b/riferimenti>)

Editorial Board Member

Department of Pharmacy, University of Naples "Federico II", Via D. Montesano, 49, I-80131 Naples, Italy

Interests: natural product chemistry; chromatography; phytochemicals; natural product isolation; extraction; natural product drug discovery; compound isolation; NMR structure elucidation; mass spectrometry; metabolomics

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Dr. Hyukjae Choi (<https://sciprofiles.com/profile/98475>)

Website (<https://hyukjaec.wixsite.com/pharmacognosy>)

Editorial Board Member

College of Pharmacy, Yeungnam University, Gyeongsan-si, Korea

Interests: natural product chemistry; natural product isolation; natural product drug discovery; chromatography; bioactivity; extraction; NMR structure elucidation; phytochemical analysis; high-performance liquid chromatography; mass spectrometry

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Prof. Dr. Girolamo Cirrincione (<https://sciprofiles.com/profile/95170>)

Website (<https://pure.unipa.it/it/persons/girolamo-cirrincione-4>)

Editorial Board Member

University of Palermo Via Archirafi, 90123 Palermo, Italy

Interests: synthesis; heterocycles; antibiotic resistance; drug discovery; antitumor activity

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Dr. Marta Correia-da-Silva (<https://sciprofiles.com/profile/180912>)

Website (<https://www2.cilmar.up.pt/team.php?id=282>)

Editorial Board Member

1. Laboratório de Química Orgânica e Farmacêutica, Departamento de Ciências, Químicas, Faculdade de Farmácia, Universidade do Porto, Rua Jorge Viterbo Ferreira 228, 4050-313 Porto, Portugal

2. CIMAR | Interdisciplinary Centre of Marine and Environmental Research, University of Porto, Novo Edifício do Terminal de Cruzeiros do Porto de Leixões, Avenida General Norton de Matos, s/n, 4450-208 Matosinhos, Portugal

Interests: medicinal chemistry; synthesis of sulfated and glycosylated small-molecule mimetics of heparin; discovery of biological activities for persulfated versus partially sulfated small molecules; antifouling studies of partially sulfated small molecules; antithrombotic studies of persulfated small molecules; structure–activity and structure–property relationship studies of bioactive small molecules

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Prof. Dr. Maria Michela Corsaro (<https://sciprofiles.com/profile/35743>)

Website (<https://www.docenti.unina.it/#!/professor/4d41524941204d494348454c41434f525341524f4352534d4d4336304235304c3235395a/riferimenti>)

Editorial Board Member

Department of Chemical Sciences, University of Naples Federico II, Naples, Italy

Interests: polysaccharides and oligosaccharides; marine extremophiles; secondary metabolites; structural elucidation; physico-chemical properties; biofilm

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Dr. Rui Manuel Santos Costa de Morais (<https://sciprofiles.com/profile/143926>)

Website (<http://www.cbqf.esb.ucp.pt/en/docentes-rui-morais-en>)

Editorial Board Member

Catholic University of Portugal, CBQF – Centre for Biotechnology and Fine Chemistry – Associate Laboratory, Rua Arquitecto Lobão Vital, Apartado 147, 4169-015 Portugal

Interests: production, extraction and optimization of bioactive compounds from microalgae biomass and applications thereof in food/feed, and health; plant and microalgae biotechnology; bio-based products; natural product chemistry

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Valeria Costantino (<https://sciprofiles.com/profile/25776>)

Website (https://www.researchgate.net/profile/Valeria_Costantino)

Editorial Board Member

Department of Pharmacy, University of Naples Federico II, Via Montesano 149, 80131 Naples, Italy

Interests: isolation and stereostructural elucidation of new leads compounds in anti-inflammatory and anti-cancer drug discovery; exploration of the QQ and the QS system in bacteria symbiotic with sponges with the goal to create novel leads in antibacterial drug discovery; cyanobacteria as source of novel lead compounds and toxins

Special Issues, Collections and Topics in MDPI journals

Dr. Luísa Custódio (<https://sciprofiles.com/profile/49110>)

Website (<https://www.ccmr.uaig.pt/users/lcustodio>)

Editorial Board Member

Centre of Marine Sciences—CCMAR, University of Algarve, 8005-139 Faro, Portugal

Interests: marine plants; biotechnological applications; antioxidant activity; antioxidants bioactivity; phytochemicals; natural product chemistry

Special Issues, Collections and Topics in MDPI journals



Dr. Adele Cutignano (<https://sciprofiles.com/profile/60395>)

Website (https://www.researchgate.net/profile/Adele_Cutignano)

Editorial Board Member

Istituto di Chimica Biomolecolare, Consiglio Nazionale delle Ricerche, Napoli, Italy

Interests: marine natural products; structural elucidation; biosynthesis; bioactive molecules; drug discovery; mass spectrometry; lipidomics

Special Issues, Collections and Topics in MDPI journals

Dr. Hélène Taiana Darius (<https://sciprofiles.com/profile/309996>)

Website (<https://scholar.google.com/citations?user=mc40lnIAAAAJ&hl=en>)

Editorial Board Member

Laboratory of Marine Biotoxins, Institut Louis Malardé, UMR EIO (IFREMER, IRD, ILM, UPF), P.O. Box 30 Papeete, Tahiti, French Polynesia

Interests: marine biotoxins; seafood poisoning; dinoflagellates; toxin production; toxin bioaccumulation in the trophic chain; cell-based assays; ligand-receptor binding assays; monitoring programs

Special Issues, Collections and Topics in MDPI journals

Dr. Donatella De Pascale

Website (<https://www.szn.it/index.php/it/personale/staff/807-de-pascale-donatella/6061-de-pascale-donatella>)

Editorial Board Member

Stazione Zoologica Anton Dohrn, Villa Comunale Naples, 80125 Naples, Italy

Interests: isolating novel microbial strains from extreme marine environments; novel drug discoveries

Special Issues, Collections and Topics in MDPI journals



Dr. Cédric Delattre (<https://sciprofiles.com/profile/518927>)

Website1 (https://www.researchgate.net/profile/Cedric_Delattre) **Website2** (<http://www.iufrance.fr/les-membres-de-jiuf/membre/2017-cedric-delattre.html>)

Editorial Board Member

1 Université Clermont Auvergne, CNRS, SIGMA Clermont, Institut Pascal, F-63000 Clermont-Ferrand, France

2 Institut Universitaire de France (IUF), 1 rue Descartes, 75005 Paris, France

Interests: biomaterials; polymers; polysaccharides; nanomaterials

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Valery Dembitsky (<https://sciprofiles.com/profile/1069828>)

Website (<https://scholar.google.com/citations?user=X5gMue0AAAAJ&hl=en>)

Editorial Board Member

Centre for Applied Research, Innovation and Entrepreneurship, Lethbridge College, 3000 College Drive South, Lethbridge, AB T1K 1L6, Canada

Interests: actinobacteria; fungal endophytes; yeast; microscopic fungi; microalgae; cyanobacteria; lichens; alkaloids; terpenoids; aromatic; lipids; fatty acids; peptides; antitumor; antiviral

Special Issues, Collections and Topics in MDPI journals



Dr. Andrew P. Desbois

Website (<https://www.stir.ac.uk/people/256149>)

Editorial Board Member

Institute of Aquaculture, University of Stirling, Stirling, Stirlingshire, FK9 4LA, UK

Interests: Discovery and development of antimicrobial compounds

Special Issues, Collections and Topics in MDPI journals



Dr. Flaviana Di Lorenzo (<https://sciprofiles.com/profile/407070>)

Website (https://www.researchgate.net/profile/Flaviana_DI_Lorenzo)

Editorial Board Member

Department of Chemical Sciences, University of Naples Federico II, Naples, Italy

Interests: lipopolysaccharides; innate immunity; bacterial glycans; structural characterization; microbial glycobiology; mass spectrometry; NMR

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Patrizia Diana (<https://sciprofiles.com/profile/40013>)

Website (<https://pure.unipa.it/it/persons/patrizia-diana-4>)

Editorial Board Member

Department of Biological Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Via Archirafi, 32-90123 Palermo, Italy

Interests: marine alkaloids; heterocycles; drug discovery; synthesis; bioactive compounds; antitumor activity; antibiofilm activity; and kinase inhibitors

Special Issues, Collections and Topics in MDPI journals






Dr. Daniel A. Dias (<https://sciprofiles.com/profile/226984>)

Website (<http://www.rmit.edu.au/contact/staff-contacts/academic-staff/d/dias-dr-daniel/>)

Editorial Board Member

School of Health and Biomedical Sciences, Laboratory Medicine, RMIT University PO Box 71, Bundoora 3083, Australia

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Interests: metabolomics; natural products chemistry; biomarker discovery; analytical chemistry; dereplication; structure elucidation; mass spectrometry; nuclear magnetic resonance spectroscopy

Special Issues, Collections and Topics in MDPI journals



Dr. Pavel S. Dmitrenok (<https://sciprofiles.com/profile/306304>)

Website (<http://www.piboc.dvo.ru/structure/ckp/ckp2.php>)

Editorial Board Member

G.B. Elyakov Pacific Institute of Bioorganic Chemistry of the Far East Branch of the Russian Academy of Sciences, Pr. 100-letya Vladivostoka 159, 690022 Vladivostok, Russia

Interests: marine natural products; mass spectrometry; chemical structures; metabolomics; proteomics

Special Issues, Collections and Topics in MDPI journals

Dr. Maria do Rosário Domingues (<https://sciprofiles.com/profile/158836>)

Website (<http://www.cesam.ua.pt/rosariodomingues>)

Editorial Board Member

CESAM, Department of Chemistry, University of Aveiro, Campus Universitario de Santiago, 3810-193 Aveiro, Portugal

Interests: lipidomics; oxidized lipids; nitrated/nitroxidized lipids; protein lipoxidation; Mass spectrometry; LC-MS

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Herminia Domínguez (<https://sciprofiles.com/profile/20321>)

Website (<https://bidi.uvigo.es/en/researcher/herminia-dominguez-gonzalez>)

Editorial Board Member

Centro de Investigaciones Biomédicas (CINBIO), Departamento de Enxeñaría Química, Universidade de Vigo (Campus Ourense), Edificio Politécnico, As Lagoas, 32004

Ourense, Spain

Interests: bioactive compounds; macroalgae; vegetal biomass; environmentally-friendly extraction technologies; membranes; waste valorisation

Special Issues, Collections and Topics in MDPI journals



Dr. Sebastien Dutertre (<https://sciprofiles.com/profile/382457>)

Website (<https://ibmm.umontpellier.fr/?Les-travaux-de-recherche-menes-par&lang=fr>)

Editorial Board Member

Institut des Biomolécules Max Mousseron, UMR 5247, Université Montpellier, CNRS, Place Eugène Bataillon, CEDEX 5, 34095 Montpellier, France

Interests: venoms; conotoxins; peptides; proteomics; transcriptomics; drug discovery

Special Issues, Collections and Topics in MDPI journals



Dr. Sergey A. Dyshlovoy (<https://sciprofiles.com/profile/12131>)

Website (<https://orcid.org/0000-0002-7155-9245>)

Editorial Board Member

1. Laboratory of Pharmacology, A.V. Zhirmunsky National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok, Russia

2. Laboratory of Experimental Oncology, Department of Oncology, Hematology and Bone Marrow Transplantation with Section Pneumology, Hubertus Wald-Tumorzentrum, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

3. Martini-Klinik, Prostate Cancer Center, University Hospital Hamburg-Eppendorf, Hamburg, Germany

Interests: marine natural compounds; secondary metabolites; anticancer activity; mechanism of action; autophagy; drug combinational studies

Special Issues, Collections and Topics in MDPI journals

Dr. RuAngelle Edrada-Ebel (<https://sciprofiles.com/profile/11172>)

Website (<https://www.strath.ac.uk/staff/edradaebelruangeliedr/>)

Editorial Board Member

Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, UK

Interests: marine natural products chemistry; secondary metabolomics; NMR- and MS-based metabolomics; marine biotechnology

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Khalid A. El Sayed (<https://sciprofiles.com/profile/14019>)

Website (<https://webservices.ulm.edu/facultyactivities/profile/elsayed>)

Editorial Board Member

School of Basic Pharmaceutical and Toxicological Sciences, College of Pharmacy, University of Louisiana at Monroe, 1800 Bienville Drive, Monroe, LA 71201, USA

Interests: olive phenolics; optimization of bioactive natural product scaffolds; breast cancer migration, invasion, metastasis and recurrence; c-Met/HGF pathway; PCSK9-LDLR

interaction inhibitors; computer-aided/rational semisynthetic optimizations of natural products

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. William H. Fenical (<https://sciprofiles.com/profile/14027>)

Website (<https://wfenical.scrippsprofiles.ucsd.edu/>)

Editorial Board Member

Scripps Institution of Oceanography, Skaggs School of Pharmacy and Pharmaceutical Science, Moores Comprehensive Cancer Center, University of California, San Diego, CA, USA

Interests: marine natural products; marine anticancer agents



Dr. Javier Fernández (<https://sciprofiles.com/profile/412837>)

Website (https://www.researchgate.net/profile/Jose_Fernandez25)

Editorial Board Member

Instituto Universitario de Bio-Orgánica Antonio González (IUBOAG), Universidad de La Laguna (ULL), 38206 San Cristobal de La Laguna, Spain

Interests: marine natural products; marine toxins; marine polyether; marine microalgae; biosynthesis; Laurocina; antiparasitic substances; phosphatase inhibitors

Special Issues, Collections and Topics in MDPI journals

Dr. Angelo Fontana (<https://sciprofiles.com/profile/54032>)

Website (<https://www.icb.cnr.it/en/teams/director/>)

Editorial Board Member

Bio-Organic Chemistry Research Group, Consiglio Nazionale delle Ricerche - Istituto di Chimica Biomolecolare, Via Campi Flegrei 34, 80078 Pozzuoli (Napoli), Italy

Interests: marine natural products; biosynthesis of chemical mediators; drug discovery; biofuels from marine microalgae; biological hydrogen

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Chris Franco (<https://sciprofiles.com/profile/67902>)

Website (<https://www.flinders.edu.au/people/chris.franco>)

Editorial Board Member



Dr. Masaki J. Fujita (<https://sciprofiles.com/profile/43702>)

Website (http://www2.fish.hokudai.ac.jp/faculty-member/fujita_masaki/?key=en)

Editorial Board Member

Graduate School of Fisheries Sciences, Hokkaido University, Sapporo, Japan

Interests: marine natural products; biosynthesis; harmful algal bloom

Prof. Dr. Nobuhiro Fusetani (<https://sciprofiles.com/profile/10588>) *

Website (https://www.jst.go.jp/erato/en/research_area/completed/fck_P.html)

Editorial Board Member

Hakodate Research Center for Fisheries and Oceans, 20-5 Benten-cho, Hakodate 040-0051, Japan

Interests: marine natural products; drug discovery; antitumor; antimicrobial; enzyme inhibitors; chemical ecology; biofouling

* Former Associate Editor of Marine Drugs.

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Haruhiko Fuwa (<https://sciprofiles.com/profile/91179>)

Website (<https://scholar.google.co.jp/citations?user=13J0NfMAAAAJ&hl=ja>)

Editorial Board Member

Department of Applied Chemistry, Faculty of Science and Engineering, Chuo University 1-13-27 Kasuga, Bunkyo-ku, Tokyo 112-8551, Japan

Interests: marine natural products; organic synthesis; natural product chemistry

Special Issues, Collections and Topics in MDPI journals



Dr. A. Ganesan (<https://sciprofiles.com/profile/906093>)

Website (<https://orcid.org/0000-0003-4862-7999>)

Editorial Board Member

School of Pharmacy, University of East Anglia, Norwich Research Park, Norwich NR4 7TJ, UK

Interests: natural products; drug discovery; medicinal chemistry; combinatorial chemistry; anticancer agents; biosynthesis

Prof. Dr. Alfonso Garcia Ayala (<https://sciprofiles.com/profile/51299>)

Website (<https://www.um.es/en/web/perfil/curriculum?correo=agayala>)

Editorial Board Member

Department of Cell Biology and Histology, Faculty of Biology, Regional Campus of International Excellence "Campus Mare Nostrum", University of Murcia, 3100 Murcia, Spain

Interests: endocrine disruptors; marine fish; hermaphrodite; immune response; reproduction

Special Issues, Collections and Topics in MDPI journals



Dr. Marco Garcia-Vaquero (<https://sciprofiles.com/profile/225725>)

Website (<https://orcid.org/0000-0002-9939-063X>)

Editorial Board Member

Section of Food and Nutrition, School of Agriculture and Food Science, University College Dublin, Belfield, Dublin 4, Ireland

Interests: natural product chemistry; innovative technology; green technology; functional food; pharmaceuticals; antioxidant properties

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Neha Garg (<https://sciprofiles.com/profile/1019559>)

Website (<https://www.chemistry.gatech.edu/people/garg/nehaj>)

Editorial Board Member

Engineered Biosystems Building, School of Chemistry and Biochemistry, Georgia Institute of Technology, 950 Atlantic Drive, Atlanta, GA, 30332-2000, USA

Interests: metabolomics; natural products; chemical ecology; microbial communities; infectious diseases; coral reefs; marine sponges

Special Issues, Collections and Topics in MDPI journals



Dr. Margherita Gavagnin

Website (<https://www.icb.cnr.it/en/teams/margherita-gavagnin-capoggiani-2/>)

Editorial Board Member

Consiglio Nazionale delle Ricerche, Institute of Biomolecular Chemistry, Rome, Italy

Interests: natural products; marine chemical ecology; natural substances; marine organisms; chemical ecology

Special Issues, Collections and Topics in MDPI journals

Dr. Santokh Gill (<https://sciprofiles.com/profile/395197>)

Website (<http://www.goc411.ca/en/79597/Santokh-Gill>)

Editorial Board Member

Regulatory Toxicology Research Division, Bureau of Chemical Safety, Food Directorate, Health Products and Food Branch, Health Canada, Ottawa, Ontario, K1A 0L2, Canada

Interests: glutamate receptors; toxicogenomics; neurotoxicity; biomarkers; toxicology; risk assessment



Dr. Daniela Giordano (<https://sciprofiles.com/profile/377234>)

Website (<https://www.ibbr.cnr.it/ibbr/people/daniela-giordano>)

Editorial Board Member

Institute of Biosciences and BioResources (IBBR), Consiglio Nazionale delle Ricerche (CNR), Via Pietro Castellino 111, I-80131 Naples, Italy

Interests: antarctic and arctic marine environments; bacteria; fish; sponges; marine natural products; marine peptides/proteins; protein structure/function; hemoproteins; marine antioxidants; marine anti-UV; functional ingredients; cosmeceuticals; PUFA

Special Issues, Collections and Topics in MDPI journals



Dr. Keith B. Glaser (<https://sciprofiles.com/profile/93026>) *

Website (https://rocketreach.co/keith-glaser-email_3030651)

Editorial Board Member

AbbVie, 1 North Waukegan Road, North Chicago, IL 60064, USA

Interests: oncology, inflammation, epigenetics, receptor tyrosine kinases, drug discovery, marine natural products

* Former Associate Editor of Marine Drugs



Prof. Dr. Olivier Grovel (<https://sciprofiles.com/profile/444844>)

Website (<https://orcid.org/0000-0003-3165-4771>)

Editorial Board Member

Prof. Dr. Hua-Shi Guan (<https://sciprofiles.com/profile/424429>) *

Website (<http://web.ouc.edu.cn/mp/tutorslistawz/list.htm>)

Editorial Board Member

Founding Editor-in-Chief 2003-2005, Honorary Editor-in-Chief
Ocean University of China, Yushan Road 5, Qingdao 266003, China

Interests: marine drugs; marine natural products; marine glycochemistry

* Prof. Dr. Hua-Shi Guan served as the Founding Editor-in-Chief of Marine Drugs.



Dr. Kirk R. Gustafson (<https://sciprofiles.com/profile/11169>)

Website (<https://www.researchgate.net/profile/Kirk-Gustafson>)

Editorial Board Member

Molecular Targets Laboratory, Center for Cancer Research, National Cancer Institute, Frederick, MD 21702-1201, USA

Interests: natural products chemistry; chemical biology of natural products; NMR spectroscopy

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

Prof. Dr. Espen Hansen (<https://sciprofiles.com/profile/50448>)

Website (https://uit.no/ansatte/person?p_document_id=41314)

Editorial Board Member

Marbio, UiT The Arctic University of Norway, Breivika, N-9037 Tromsø, Norway

Interests: bioactive natural products; mass spectrometry; chromatography; metabolomics; bioactivity screening

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

Prof. Dr. Joanne Harvey (<https://sciprofiles.com/profile/533425>)

Website (<https://www.victoria.ac.nz/scps/about/staff/joanne-harvey>)

Editorial Board Member

Victoria University of Wellington, Wellington, New Zealand

Interests: natural product synthesis; nature-inspired drug discovery; design and synthesis of natural product analogues; reaction mechanism

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

Dr. Antonio Hernandez Daranas (<https://sciprofiles.com/profile/466415>)

Website (<https://www.ipna.csic.es/en/personnel/antonio-herandez-daranas>)

Editorial Board Member

Ctr. Invest Biomed Canarias CIBICAN, Univ. La Laguna, IUBO AG, Ave Astrofis Francisco Sanchez 2, E-38206 Tenerife, Spain

Interests: marine natural products; marine toxins; biosynthesis; NMR spectroscopy; protein-ligand interactions; inhibition of phosphatases

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



Dr. Philipp Hess (<https://sciprofiles.com/profile/9014>)

Website (<http://annuaire.ifremer.fr/cv/17128/en/>)

Editorial Board Member

Laboratoire Phycotoxines, Ifremer, Nantes, France

Interests: marine algal; bacterial and cyanobacterial toxins; mass spectrometric analysis of and biological assays for toxins and related metabolites; ecophysiology of toxin production and biosynthesis; HABs and climate change; reference materials; monitoring and risk evaluation

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



Dr. Friedemann Honecker (<https://sciprofiles.com/profile/93062>)

Website (<https://www.hirslanden.ch/en/corporate/doctors/1/pd-dr-dr-med-friedemann-honecker.html>)

Editorial Board Member

Tumor and Breast Center ZeTeUP St. Gallen, Rorschacherstr. 150, CH-9006 St. Gallen, Switzerland

Interests: medical oncology; drug resistance; marine anti-cancer compounds; drug development; tumor biology; proteomics

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



Prof. Dr. Kui Hong

Website (<http://www.pharm.whu.edu.cn/info/1154/1954.htm>)

Editorial Board Member

Key Laboratory of Combinatorial Biosynthesis and Drug Discovery, Ministry of Education, School of Pharmaceutical Sciences, Wuhan University, Wuhan 430071, China

Interests: microbial systematic guided marine microbial drug resources (culture, compounds and genes); ecology, collection, isolation and identification; genomics guided marine microbial natural products discovery and biosynthesis

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



Prof. Dr. F. David Horgen (<https://sciprofiles.com/profile/11178>)

Website (<https://www.hpu.edu/faculty/cncs/f-david-horgen.html>)

Editorial Board Member

College of Natural and Computational Sciences, Hawaii Pacific University, 45-045 Kamehameha Highway, Kaneohe, HI 96744, USA

Interests: marine natural products; structure determination; non-ribosomal peptides; ion channel assays; modulation of transient receptor potential ion channels; analytical chemistry

Prof. Dr. Micha Ilan (<https://sciprofiles.com/profile/864299>)

Website (<https://en-lifesci.tau.ac.il/profile/milan>)

Editorial Board Member

School of Zoology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv-Yafo 69978, Israel

Interests: phylum Porifera (sponges) and its symbiosis especially with associated microorganisms

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



Prof. Dr. Concetta Imperatore (<https://sciprofiles.com/profile/187357>)

Website (<https://www.docenti.unina.it#!/professor/434f4e4345545441494d50455241544f52454d50524343543731463833395a/riferimenti>)

Editorial Board Member

Department of Pharmacy, University of Naples Federico II, Naples, Italy

Interests: marine natural products; isolation and stereostructural elucidation of bioactive secondary metabolites; design and synthesis of analogues of marine natural products; NMR spectroscopy; marine invertebrates

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



Dr. Efstathia Ioannou (<https://sciprofiles.com/profile/170841>)

Website (https://en.pharm.uoa.gr/people/faculty/pharmacognosy_chemistry_of_natural_products/efstathia_ioannou/)

Editorial Board Member

Department of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece

Interests: isolation; structure elucidation; marine natural products; marine biopolymers; marine-derived microorganisms

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Hafiz M.N. Iqbal (<https://sciprofiles.com/profile/192237>)

Website (<https://orcid.org/0000-0003-4855-2720>)

Editorial Board Member

Tecnologico de Monterrey, School of Engineering and Sciences, Av. Eugenio Garza Sada 2501 Sur, Monterrey N.L. CP 64849, Mexico

Interests: Bio-catalysis; Enzyme immobilization; Algal Biotechnology; Bioengineering; Biomedical Engineering; Environmental Engineering; Biosensors; Biomaterials; Drug Delivery Systems; Liquid and solid waste management; Biomass and Bioenergy

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Chris M. Ireland (<https://sciprofiles.com/profile/10599>)

Website (http://faculty.utah.edu/u0035149-CHRIS_M_IRELAND/teaching/index.html)

Editorial Board Member

Department of Medicinal Chemistry, L. S. Skaggs Pharmacy Institute, 30 S. 2000 E., University of Utah, Salt Lake City, UT 84112, USA

Interests: marine pharmacognosy; natural products chemistry; structure and mechanism of action of antitumor natural products; marine microbiology; structure and neurotoxicity of conotoxins



Dr. Natalia V. Ivanchina (<https://sciprofiles.com/profile/459699>)

Website (<http://www.piboc.dvo.ru/en/structure/biosintez/lab1.php>)

Editorial Board Member

G.B. Elyakov Pacific Institute of Bioorganic Chemistry of the Far East Branch of the Russian Academy of Sciences, Pr. 100-letya Vladivostoka 159, 690022 Vladivostok, Russia

Interests: marine natural product chemistry; secondary metabolites; starfish polar steroids and lipids; biological activities; metabolomics; biosynthesis

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Charlotte Jacobsen (<https://sciprofiles.com/profile/589755>)

Website (<https://www.food.dtu.dk/english/Research/Bioactives-Analysis-and-Application>)

Editorial Board Member

Research Group for Bioactives – Analysis and Analysis, National Food Institute, Technical University of Denmark, Lyngby, Denmark

Interests: extraction; analysis and application of bioactive compounds from marine biomasses, particularly lipids; lipid oxidation and antioxidants; functional foods

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Jae-Young Je (<https://sciprofiles.com/profile/628710>)

Website (https://itc.pknu.ac.kr/eng/html/02/03_4.php)

Editorial Board Member

Major of Human Bioconvergence, Division of Smart Healthcare, Pukyong National University, Busan, Republic of Korea

Interests: bioactive peptides; chitosan; polyphenols; nutraceuticals; functional foods

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. You-Jin Jeon (<https://sciprofiles.com/profile/19209>)

Website (<https://orcid.org/0000-0003-3299-7266>)

Editorial Board Member

Department of Marine Life Sciences, Jeju National University, Jeju 63243, Korea

Interests: seaweeds; fucoidan; environmentally friendly extraction technologies; commercial-grade production; analysis of fucoidans; NMR; medicinal and pharmaceutical chemistry; bioactivities; functionality; functional foods; supplements

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Igor Jerković (<https://sciprofiles.com/profile/6012>)

Website (<https://www.ktf.unist.hr/index.php/ozk-3/zok/172-hrvatski/djelatnici/cv/187-cv59>)

Editorial Board Member

Department of Organic Chemistry, Faculty of Chemistry and Technology, University of Split, HR-21000 Split, Croatia

Interests: volatile organic compounds (terpenes, norisoprenoids, aliphatic and aromatic compounds, others); glycosidically bound volatiles; chemical biomarkers; chemical biodiversity; gas chromatography and mass spectrometry; organic chemistry

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Carlos Jimenez (<https://sciprofiles.com/profile/275068>)

Website (<https://www.pronamar.com/en/pr-dr-carlos-jimenez-gonzalez>)

Editorial Board Member

Departamento de Química Fundamental e Centro de Investigaciones Científicas Avanzadas (CICA), Universidade da Coruña, A Coruna, Spain

Interests: marine natural products; isolation and structural elucidation; organic synthesis; biological activity; medicinal chemistry; bacterial iron uptake; siderophores

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Jianhua Ju (<https://sciprofiles.com/profile/101005>)

Website (<http://people.ucas.ac.cn/~0009752?language=en>)

Editorial Board Member

South China Seas Institute of Oceanography Chinese Academy of Sciences, Guangzhou, China

Interests: marine natural products; biosynthesis; marine microorganisms; anti-infective; antitumor

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Jee H. Jung

Website (<https://jhjung.pusan.ac.kr/jhjung/24222/subview.do>)

Editorial Board Member

Dr. Quentin Kaas (<https://sciprofiles.com/profile/800335>)

Website (<https://cipps.org.au/archives/teams/dr-quentin-kaas-2>)

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Editorial Board Member

Institute for Molecular Bioscience, Australian Research Council Centre of Excellence for Innovations in Peptide and Protein Science, The University of Queensland, Brisbane, QLD 4072, Australia

Interests: venom peptides; conopeptides; ion channels; structure-function relationships; bioinformatics; molecular modelling; NMR spectroscopy; peptide de novo design

Special Issues, Collections and Topics in MDPI journals



Dr. Vladimir I. Kalinin (<https://sciprofiles.com/profile/102483>)

Website (<http://www.piboc.dvo.ru/en/structure/biosintez/lab1.php>)

Editorial Board Member

G.B. Elyakov Pacific Institute of Bioorganic Chemistry of the Far East Branch of the Russian Academy of Sciences, Pr. 100-letya Vladivostoka 159, 690022 Vladivostok, Russia

Interests: marine natural product chemistry; secondary metabolites; sea cucumber triterpene glycosides; biological activities; evolution of biosynthesis; chemotaxonomy

Special Issues, Collections and Topics in MDPI journals



Dr. Peter Karuso (<https://sciprofiles.com/profile/10999>)

Website (<https://researchers.mq.edu.au/en/persons/peter-karuso>)

Editorial Board Member

Department of Molecular Sciences, Macquarie University, Sydney, NSW 2109, Australia

Interests: natural products; chemical biology; chemical proteomics; fluorescence

Prof. Dr. Yoel Kashman (<https://sciprofiles.com/profile/1314>)

Website (https://en-exact-sciences.tau.ac.il/Professor_Yoel_Kashman)

Editorial Board Member

School of Chemistry, Tel Aviv University, Tel Aviv 69978, Israel

Interests: marine metabolites; structure elucidation; anticancer agents; antimicrobial agents; biogenesis



Dr. Michelle Kelly (<https://sciprofiles.com/profile/1032274>)

Website (<https://niwa.co.nz/people/michelle-kelly>)

Editorial Board Member

National Institute of Water and Atmospheric Research, New Zealanddisabled, Auckland, New Zealand

Interests: marine sponge systematist; marine biologist; marine natural products

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. William R. Kem (<https://sciprofiles.com/profile/2915>)

Website (<https://pharmacology.med.ufl.edu/people/emeritus-faculty/william-r-kem-ph-d/>)

Editorial Board Member

Department of Pharmacology and Therapeutics, College of Medicine, University of Florida, FL, USA

Interests: marine toxins; including nemertine toxins acting on cholinergic system; cognition; treatment of Alzheimer disease; addictive behavior; schizophrenia

Special Issues, Collections and Topics in MDPI journals



Dr. Rob Keyzers (<https://sciprofiles.com/profile/434620>)

★ (<https://recognition.webofscience.com/awards/highly-cited/2020/>) **Website1** (<https://people.wgtn.ac.nz/robert.keyzers>) **Website2** (<https://www.victoria.ac.nz/scps/research/research-groups/natural-products>)

Editorial Board Member

School of Chemical and Physical Sciences, and Center for Biodiscovery, Victoria University of Wellington, Wellington 6140, New Zealand

Interests: marine invertebrate natural products; bioactive natural products; structure determination of new metabolites; isolation and purification; chemical analysis; analytical chemistry of natural compounds and xenochemicals

Special Issues, Collections and Topics in MDPI journals



Dr. Zeinab Khalil (<https://sciprofiles.com/profile/515290>)

Website (<https://researchers.uq.edu.au/researcher/9862>)

Editorial Board Member

Institute for Molecular Bioscience, The University of Queensland, St. Lucia, QLD 4072, Australia

Interests: antibiotic resistance; natural product biodiscovery; gene clusters; multi-drug resistant pathogens

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Se-Kwon Kim (<https://sciprofiles.com/profile/321>)

Website (<https://orcid.org/0000-0001-6507-9539>)

Editorial Board Member

Department of Marine Science & Convergence Engineering, Hanyang University, Gyeonggi-do 11558, Republic of Korea

Interests: marine natural products; marine biotechnology, marine algae; anti-oxidant; anti-HIV; Anti-cancer; anti-allergy; anti-inflammation; marine cosmeceuticals; nutraceuticals and pharmaceuticals

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Hideki Kishimura (<https://sciprofiles.com/profile/976464>)

Website (<https://www2.fish.hokudai.ac.jp/faculty-member/kishimura-hideki/?key=en>)

Editorial Board Member

Faculty of Fisheries Sciences, Hokkaido University Hakodate, Hokkaido, Japan

Interests: red algae; marine invertebrates; phycoerythrin; xylooligosaccharide; marine enzymes; marine collagen; chloroplast DNA; antihypertension; prebiotics; antioxidation; antidiabetes

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Jun'ichi Kobayashi (<https://sciprofiles.com/profile/10601>)

Website (<https://nrid.nii.ac.jp/nrid/1000090221241/>)

Editorial Board Member

Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan

Interests: bioactive marine natural products; structure elucidation; mechanism of action; drug leads; bioprobes; biogenesis

Dr. Matthias Köck (<https://sciprofiles.com/profile/1077277/>)

MDPI
Website (<https://orcid.org/0000-0003-0211-6341>)

Editorial Board Member

Alfred-Wegener-Institute, Helmholtz Center for Polar and Marine Research, Bremerhaven, Germany

Interests: marine natural products, NMR

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Alexander V Kornienko (<https://sciprofiles.com/profile/165847/>)

Website (<https://kornienkoresearchgroup.wp.txstate.edu/>)

Editorial Board Member

Department of Chemistry and Biochemistry, Texas State University, San Marcos, TX 78666, USA

Interests: organic synthesis; drug discovery; cancer research; natural products

Special Issues, Collections and Topics in MDPI journals

Dr. Jim La Clair (<https://sciprofiles.com/profile/2121952/>)

Website (<https://orcid.org/0000-0001-6500-4107>)

Editorial Board Member

Xenobe Research Institute, P.O. Box 3052, San Diego, CA, USA

Interests: glycobiology; cancer proteomics; lectins; polyketide synthases; high throughput screening; natural products; marine natural products; marine drug discovery; natural product drug discovery

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Hartmut Laatsch (<https://sciprofiles.com/profile/11690/>) *

Website (http://www.user.gwdg.de/~hlaatsc/Prof_Dr_H_Laatsch/prof_dr_h_laatsch.html)

Editorial Board Member

Institute of Organic and Biomolecular Chemistry, University of Göttingen, Tammannstrasse 2, D-37077 Göttingen, Germany

Interests: anti-bacterial; anti-fungal; anti-parasitic and anti-cancer activity of marine microbial products; marine bacteria; endophytes; dereplication; database-supported structure elucidation

* Prof. Dr. Hartmut Laatsch served as the Editor-in-Chief of Marine Drugs from September 2009 to December 2013.



Dr. Yulin Lam (<https://sciprofiles.com/profile/11226/>)

Website (<https://sg.linkedin.com/in/yulin-lam-80477723>)

Editorial Board Member

Department of Chemistry, National University of Singapore, 3 Science Drive 3, 117543 Singapore

Interests: bioorganic chemistry; combinatorial chemistry; chemical synthesis; heterocycles; antiviral agents; anticancer agents; agents against CNS disorder



Prof. Dr. Celine Laroche (<https://sciprofiles.com/profile/286067/>)

Website (<http://www.institutpascal.uca.fr/index.php/fr/membres-gepeb?idag=505>)

Editorial Board Member

Institut Pascal, Université Clermont Auvergne, 63000 Clermont-Ferrand, France

Interests: microalgae; photobioreactors; polysaccharides; pigments; biorefinery; bioprocesses; biological activities

Special Issues, Collections and Topics in MDPI journals

Dr. Paola Laurienzo (<https://sciprofiles.com/profile/201305/>)

Website (<http://www.ipcb.cnr.it/index.php/it/personale/strutturato/114-paola-laurienzo>)

Editorial Board Member

Institute for Polymers, Composites and Biomaterials, CNR, via Campi Flegrei 34, 80078 Pozzuoli, Italy

Interests: macromolecular chemistry; natural polysaccharides; drug delivery; nanoparticles surface modification; active targeting

Special Issues, Collections and Topics in MDPI journals



Dr. Florence Lefranc (<https://sciprofiles.com/profile/641163/>)

Website (<https://www.erasme.ulb.ac.be/fr/a-propos-de-l-hopital/annuaire-du-personnel/lefranc-florence>)

Editorial Board Member

Department of Neurosurgery, Hospital Erasme, Brussels, Belgium

Interests: natural products; cytotoxic; anticancer; multidrug resistance; marine fungi; chemotherapeutic; in vivo antitumor

Prof. Dr. Richard J. Lewis (<https://sciprofiles.com/profile/382456/>)

Website (<https://imb.uq.edu.au/profile/284/richard-lewis>)

Editorial Board Member

Institute for Molecular Bioscience, The University of Queensland, Brisbane, QLD 4072, Australia

Interests: mass spectroscopy and novel bioassays to characterise conotoxins; small venom peptides; marine snails; drug development

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Dehai Li (<https://sciprofiles.com/profile/42410/>)

Website (<http://smp.ouc.edu.cn/2019/0903/c17382a258050/page.htm>)

Editorial Board Member

Key Laboratory of Marine Drugs, Chinese Ministry of Education, School of Medicine and Pharmacy, Ocean University of China, Qingdao 266003, China

Interests: marine natural products; drug discovery; biosynthesis; medicinal chemistry

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Wenhan Lin (<https://sciprofiles.com/profile/2097511/>)

Website (<https://ocean.pku.edu.cn/info/1184/2250.htm>)

Editorial Board Member

State Key Laboratory of Natural and Biomimetic Drugs, Institute of Ocean Research, Peking University, Beijing 100191, China

Interests: marine natural product chemistry; marine chemical ecology; marine bioactive compounds; biosynthesis and biotransformation

Special Issues, Collections and Topics in MDPI journals

Dr. Grazia Maria Liuzzi (<https://sciprofiles.com/profile/81554/>)

Website (<https://www.uniba.it/docenti/liuzzi-grazia-maria>)

Editorial Board Member

Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari, Bari, Italy

Interests: antiretroviral drugs; immune; marine pharmacology

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Felix Lopez Figueroa (<https://sciprofiles.com/profile/1362112/>)

Website (https://www.uma.es/departamento-de-ecologia-y-geologia/info/78374/felix-lopez-figueroa/?set_language=es)


Editorial Board Member

MDPI (U)

Department of Ecology and Geology, Faculty of Sciences, University of Málaga, E-29071 Málaga, Spain

Interests: algal photobiology; antioxidants; cosmeceutics; integrated multitrophic aquaculture; UV-photoprotectors

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

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Prof. Dr. M. Carmen Louzao (<https://sciprofiles.com/profile/53498>)

[Website \(https://www.usc.gal/en/departament/pharmacology-pharmacy-and-pharmaceutical-technology/directory/ma-carmen-louzao-ojeda-1363\)](https://www.usc.gal/en/departament/pharmacology-pharmacy-and-pharmaceutical-technology/directory/ma-carmen-louzao-ojeda-1363)

Editorial Board Member

Departamento de Farmacología, Facultad de Veterinaria, Universidad de Santiago de Compostela, Campus de Lugo, 27002 Lugo, Spain

Interests: marine toxin; toxicity study; identification; phycotoxins

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

Prof. Dr. Yuanan Lu (<https://sciprofiles.com/profile/99633>)

[Website \(https://manoa.hawaii.edu/publichealth/directory/yuanan-lu\)](https://manoa.hawaii.edu/publichealth/directory/yuanan-lu)

Editorial Board Member

Environmental Health Laboratory, Department of Public Health Sciences, University of Hawaii, 1960 East West Road, Biomed D104J, Honolulu, HI 96822, USA

Interests: marine natural compounds; antiviral agents; in vitro toxicology; virological assays

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

Prof. Dr. Hendrik Luesch (<https://sciprofiles.com/profile/11176>)

[Website \(https://pharmacy.ufl.edu/profile/luesch-hendrik/\)](https://pharmacy.ufl.edu/profile/luesch-hendrik/)

Editorial Board Member

College of Pharmacy, University of Florida, Gainesville, FL 32610, USA

Interests: marine natural products; cyanobacteria; chemical biology; drug discovery and development

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



Prof. Dr. Sulan Luo (<https://sciprofiles.com/profile/52783>)

Editorial Board Member

Medical School, Guangxi University, Nanning 530004, China

Interests: structure and function of conotoxins (conopeptides); ion channels; neuropeptides in marine organisms; molecular biology; electrophysiology; biotechnology; marine medicine

Prof. Dr. Jeffrey Macdonald (<https://sciprofiles.com/profile/13380>)

[Website \(https://bme.unc.edu/peoples/jeffrey-macdonald/\)](https://bme.unc.edu/peoples/jeffrey-macdonald/)

Editorial Board Member

Department of Biomedical Engineering, 5022 Burnett-Womack, University of North Carolina, Chapel Hill, NC 27599, USA

Interests: metabolomics; fluxomics; NMR-based dereplication for drug discovery; NMR small molecule structure determination

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

Prof. Dr. Thomas J. Manning

[Website \(https://www.valdosta.edu/about/directory/profile/tmanning\)](https://www.valdosta.edu/about/directory/profile/tmanning)

Editorial Board Member

Chemistry, Valdosta State University, Valdosta, GA 31698, USA

Interests: antibiotics; cancer drugs; COVID medications; pharmaceutical aquaculture

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

Dr. Emiliano Manzo (<https://sciprofiles.com/profile/13632>)

Editorial Board Member

Institute of Biomolecular Chemistry (ICB), Consiglio Nazionale delle Ricerche (CNR), Via Campi Flegrei 34, 80078 Pozzuoli, Italy

Interests: organic chemistry; chemistry of natural products; synthesis of bioactive compounds

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

Prof. Dr. Alejandro M. Mayer (<https://sciprofiles.com/profile/10603>) *

[Website1 \(http://marinepharmacology.midwestern.edu/\)](http://marinepharmacology.midwestern.edu/) [Website2 \(https://www.midwestern.edu/academics/our-faculty/alejandro-m-mayer-phd.xml\)](https://www.midwestern.edu/academics/our-faculty/alejandro-m-mayer-phd.xml)

Editorial Board Member

Department of Pharmacology, CCOM, Midwestern University, 555 31st. Street, Downers Grove, IL 60515, USA

Interests: immunopharmacology, inflammation, leukocytes, cytokines, chemokines, superoxide, eicosanoids, marine toxins

* Prof. Dr. Alejandro M. Mayer served as the Editor-in-Chief of Marine Drugs from January 2014 to July 2018.

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



Prof. Dr. Hanna Mazur-Marzec (<https://sciprofiles.com/profile/1412637>)

[Website \(https://www.researchgate.net/profile/Hanna_Mazur-Marzec\)](https://www.researchgate.net/profile/Hanna_Mazur-Marzec)

Editorial Board Member

Division of Marine Biotechnology, Institute of Oceanography, University of Gdańsk, Marszałka J. Piłsudskiego 46, PL-81378 Gdynia, Poland

Interests: natural products; marine drugs; cytotoxicity, antiviral agents; nonribosomal peptides; structure and activity; cyanobacteria toxins; peptidomics

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



Prof. Dr. Kerry L. McPhail (<https://sciprofiles.com/profile/1712572>)

[Website \(https://pharmacy.oregonstate.edu/McPhailLab\)](https://pharmacy.oregonstate.edu/McPhailLab)

Editorial Board Member

Department of Pharmaceutical Sciences, Oregon State University, Corvallis, OR 97331, USA

Interests: marine natural products discovery; macrocycles; structure determination; mechanism of action



Dr. Miguel O. Mitchell (<https://sciprofiles.com/profile/446672>)

[Website \(https://www.air.org/experts/person/mitchell-morey\)](https://www.air.org/experts/person/mitchell-morey)

Editorial Board Member

American Institutes for Research, 1000 Thomas Jefferson St NW, Washington, DC 20007, USA

Interests: antibacterial agents; cation-pi and sigma hole-based protein-ligand complex investigations; the interface of chemistry and art; improving low-income accessibility of hands-on chemical instrumentation-based experiments in analytical chemistry and biochemistry

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

Prof. Dr. Hiroaki Miyaoka

[Website \(https://researchmap.jp/read0044554/?lang=english\)](https://researchmap.jp/read0044554/?lang=english)

Editorial Board Member

School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

Interests: synthesis of marine natural products; isolation and structural determination of marine natural products





Prof. Dr. Ray Norton (<https://sciprofiles.com/profile/46208>)

Website ([http://monash.edu/research/explore/en/persons/raymond-norton\(da5defb7-0828-4aa8-811d-7d7e84f518fa\).html](http://monash.edu/research/explore/en/persons/raymond-norton(da5defb7-0828-4aa8-811d-7d7e84f518fa).html))

Editorial Board Member

Medicinal Chemistry, Monash Institute of Pharmaceutical Sciences, Monash University, 381 Royal Parade, Parkville 3052, Australia

Interests: peptide; toxin; structure; drug design; ion channel; autoimmune disease

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Antonello Novelli (<https://sciprofiles.com/profile/1635927>)

Website (<http://www.uniovi.net/zope/departamentos/Psicologia/web/profesores/i54/>)

Editorial Board Member

Faculty of Psychology and University Institute of Biotechnology of Asturias, University of Oviedo, Oviedo, Spain

Interests: neurophysiology; neurotoxicity; neurodegeneration; seafood neurotoxins

Prof. Dr. George O'Doherty (<https://sciprofiles.com/profile/541914>)

Website (<https://www.northeastern.edu/odoherty/about/>)

Editorial Board Member

College of Science, Northeastern University, Boston, MA 02115, USA

Interests: bioorganic & medicinal chemistry; carbohydrate; organic



Dr. Barry R. O'Keefe (<https://sciprofiles.com/profile/2772844>)

Website (<https://ccr.cancer.gov/molecular-targets-program/barry-r-okeefe>)

Editorial Board Member

1. Natural Products Branch, Developmental Therapeutics Program, Division of Cancer Treatment and Diagnosis, National Cancer Institute, Frederick, MD 21702-1201, USA

2. Molecular Targets Program, Center for Cancer Research, National Cancer Institute, Frederick, MD 21702-1201, USA

Interests: cancer drug discovery; natural products; protein chemistry; antiviral proteins; biochemistry; anti-cancer and anti-viral high-throughput screening

Prof. Dr. Sangtaek Oh (<https://sciprofiles.com/profile/64085>)

Website (http://chembioedu.kr/introduction/int_01.html)

Editorial Board Member

Department of Bio and Fermentation Convergence Technology, Kookmin University, Seoul 136-702, Korea

Interests: colon cancer; mesenchymal stem cells; wnt/ β -catenin pathway; marine natural products

Prof. Dr. Tatiana V. Ovchinnikova (<https://sciprofiles.com/profile/453048>)

Website (<https://www.ibch.ru/en/structure/groups/sec/646>)

Editorial Board Member

Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow, Russia

Interests: marine natural products; marine peptides; innate immunity; host defense peptides; molecular mechanisms of antimicrobial and anticancer activity; structure elucidation;

structure-function relationship; bioengineering; drug design; peptide antibiotics; peptide anticancer agents; drug resistance; bioorganic chemistry; biotechnology

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Yasuhiro Ozeki (<https://sciprofiles.com/profile/16562>)

Website (<http://researchmap.jp/1124/?lang=english>)

Editorial Board Member

School of Sciences, Yokohama City University, 22-2, Seto, Kanazawa-Ku, Yokohama 236-0027, Japan

Interests: glycobiology; lectins; marine invertebrates

Special Issues, Collections and Topics in MDPI journals

Dr. Anna Palumbo (<https://sciprofiles.com/profile/73328>)

Website (https://scholar.google.com/citations?hl=it&user=2FMaThUAAAAJ&view_op=list_works&sortby=pubdate)

Editorial Board Member

Department of Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn, 80121 Naples, Italy

Interests: response of marine organisms to emerging contaminants; antioxidants; 5-Hydroxytryptamines; nitric oxide signalling; biotechnological potential of marine organisms

Special Issues, Collections and Topics in MDPI journals



Dr. Steve Peigneur (<https://sciprofiles.com/profile/1268902>)

Website (<https://gbiomed.kuleuven.be/english/research/50000715/50000721/publicaties/medewerkers%20links/Medewerkers/00056122>)

Editorial Board Member

Toxicology and Pharmacology, Department Pharmaceutical Sciences, Catholic University Leuven, Herestraat 49 box 922, 3000 Leuven, Belgium

Interests: peptide toxin; small molecules; voltage-gated ion channel; electrophysiology; pharmacology; venom; drug discovery

Special Issues, Collections and Topics in MDPI journals

Dr. Marco Pelin (<https://sciprofiles.com/profile/156295>)

Website (<https://dsv.units.it/en/departament/people/teaching-staff?q=en/node/1915>)

Editorial Board Member

Department of Life Science, Università degli Studi di Trieste, Trieste, Italy

Interests: marine toxins; algal toxins; toxicology; pharmacology; skin toxicity; oral toxicity; inflammation; mechanisms of toxicity; methods of detection

Special Issues, Collections and Topics in MDPI journals

Dr. José Augusto Pereira (<https://sciprofiles.com/profile/191678>)

Website1 (<https://www2.cimar.up.pt/team.php?id=199>) **Website2** (<http://orcid.org/0000-0003-2604-2375>)

Editorial Board Member

Instituto de Ciências Biomédicas de Abel Salazar, Universidade do Porto, Porto, Portugal

Interests: application of experimental and simulated spectroscopic methods (ECD, NMR, UV, IR, etc.) to the structural elucidation of cellular metabolites

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Leonel Pereira (<https://sciprofiles.com/profile/467727>)

Website (https://www.uc.pt/ctuc/dcv/pessoas/docentes/l_pereira)

Editorial Board Member

Department of Life Sciences, University of Coimbra, Portugal

Interests: marine biotechnology; nutrition; phycocolloids; seaweeds; taxonomy

Special Issues, Collections and Topics in MDPI journals



Dr. Ignacio Pérez-Victoria (<https://sciprofiles.com/profile/96658>)

Website (<https://typeset.io/authors/ignacio-perez-victoria-50z6nyf2bo>)

Editorial Board Member



Dr. Vincenzo Piccialli (<https://sciprofiles.com/profile/9313>)

Website (https://www.docenti.unina.it/#/professor/56494e43454e5a4f5049434349414c4c4950434356434e35384532374230373755/orari_ricevimento)

Editorial Board Member

Department of Chemical Sciences, University of Naples Federico II, Via Cinthia 4, 80126 Naples, Italy

Interests: organic and medicinal chemistry; organic synthesis; catalytic oxidative processes; marine natural products; nucleosides chemistry

Special Issues, Collections and Topics in MDPI journals

Dr. Laurent Picot (<https://sciprofiles.com/profile/533422>)

Website (<https://lienss.univ-larochelle.fr/Picot-Laurent>)

Editorial Board Member

Littoral ENvironnement et Sociétés (LIENSs), La Rochelle Université, 17000 La Rochelle, France

Interests: anticancer compounds; heterocycles; melanoma; microalgae; natural products; pharmacology; pigments; tumor phototherapy

Special Issues, Collections and Topics in MDPI journals



Dr. Andrew Piggott (<https://sciprofiles.com/profile/98641>)

Website (<https://researchers.mq.edu.au/en/persons/andrew-piggott>)

Editorial Board Member

Department of Molecular Sciences, Macquarie University, Sydney, Australia

Interests: microbial biodiversity, marine biodiversity, natural products mode of action, reverse chemical proteomics, chemical biology



Dr. Diana Cláudia Pinto (<https://sciprofiles.com/profile/79205>)

Website (https://laqv.requimte.pt/people/1715-diana_claudia_gouveia_alves_pinto)

Editorial Board Member

LAQV-REQUIMTE, Department of Chemistry, Universidade de Aveiro, 3810-193 Aveiro, Portugal

Interests: organic chemistry; medicinal chemistry; biotransformations; natural products; plant chemical profile; sustainable chemistry

Special Issues, Collections and Topics in MDPI journals

Dr. Emmanuel N. Pitsinos (<https://sciprofiles.com/profile/1037290>)

Website (<https://scholar.google.com/citations?hl=el&user=KMcxcq0AAAAJ>)

Editorial Board Member

Natural Product Synthesis & Bioorganic Chemistry Laboratory, Institute of Nanoscience and Nanotechnology, NCSR "DEMOKRITOS", P.O. Box 60228, GR-153 10 Agia

Paraskevi, Greece

Interests: organic synthesis; natural products chemistry; chemical biology; bioorganic chemistry

Prof. Dr. Georg Pohnert (<https://sciprofiles.com/profile/4200>)

Website (<https://www.jcsm.uni-jena.de/en/members/pohnert-georg>)

Editorial Board Member

Institute for Inorganic and Analytical Chemistry, Friedrich-Schiller-University Jena, Lessingstr. 8, D-07743 Jena, Germany

Interests: marine chemical ecology; analytical chemistry; biosynthesis; oxylipins; lipids; terpenoids; phytoplankton

Special Issues, Collections and Topics in MDPI journals

Dr. Michele R. Prinsep (<https://sciprofiles.com/profile/90516>)

★ (<https://recognition.webofscience.com/awards/highly-cited/2021/>) **Website** (<http://cms.its.waikato.ac.nz/spe/people/michele>)

Editorial Board Member

Department of Chemistry, The University of Waikato, Te Whare Wānanga o Waikato, Gate 1 Knighton Road, Private Bag 3105, Hamilton 3240, New Zealand

Interests: natural products chemistry; application of spectral methods to structural determination; biologically active compounds and structure-activity relationships; chemical ecology

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Peter Proksch (<https://sciprofiles.com/profile/10587>) *

Website (<https://www.hhu.de/die-hhu/presse-und-marketing/aktuelles/presse-meldungen-der-hhu/news-detailansicht/hhu-pharmazeut-prof-dr-peter-proksch-geht-in-den-ruhestand>)

Editorial Board Member

Institut für Pharmazeutische Biologie, Universität Düsseldorf, Gebäude 26.23, Universitätsstraße 1, 40225 Düsseldorf, Germany

Interests: marine natural products, marine medicines, chemical ecology

* Prof. Dr. Peter Proksch served as the Editor-in-Chief of Marine Drugs from 2005 to 2009

Special Issues, Collections and Topics in MDPI journals



Dr. Munish Puri (<https://sciprofiles.com/profile/653764>)

Website (<http://www.flinders.edu.au/people/munish.puri>)

Editorial Board Member

Centre for Marine Bioproducts Development, College of Medicine & Public Health, Flinders University, Adelaide, Australia

Interests: algal biotechnology; bioprocessing; marine bioactives; downstream processing; omega-3; carotenoids; proteins; enzymes; nanotechnology

Special Issues, Collections and Topics in MDPI journals



Dr. Masteria Yunovilsa Putra (<https://sciprofiles.com/profile/1846321>)

Website (<https://scholar.google.com/citations?user=qJz74QAAAAJ&hl=en>)

Editorial Board Member

Research Center for Biotechnology, Indonesian Institute of Sciences (LIPI), Jakarta, Indonesia

Interests: marine natural products; chemical biology; drug discovery

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Peiyuan Qian (<https://sciprofiles.com/profile/10609>)

Website (<https://facultyprofiles.hkust.edu.hk/profiles.php?profile=peiyuan-qian-boqianpy>)

Editorial Board Member

Division of Life Sciences, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hongkong, China

Interests: larval omics; marine molecular ecology; microbial ecology; marine natural products; biofouling and antifouling; marine invertebrates

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Ronald Quinn (<https://sciprofiles.com/profile/55603>)

Website (<https://experts.griffith.edu.au/18997-ronald-quinn>)

Editorial Board Member

MDPI
Interests: Biodiscovery involving high throughput screening against molecular targets, isolation and structure elucidation of bioactive natural products; Design and synthesis of receptor ligands and enzyme inhibitors; Understanding of natural product recognition for biosynthetic enzymes and correlation with therapeutic targets as a rational approach to drug discovery

Prof. Dr. Gerhard Raabe (<https://sciprofiles.com/profile/11158>)

Website (<https://typeset.io/authors/gerhard-raabe-2a41mi35qg>)

Editorial Board Member

Institut für Organische Chemie, RWTH Aachen University, Landoltweg 1, D-52074 Aachen, Germany

Interests: quantum chemistry; theoretical and experimental CD spectroscopy; X-ray structure determination; crystallography

Special Issues, Collections and Topics in MDPI journals



Dr. Azizur Rahman (<https://sciprofiles.com/profile/173524>)

Website1 (<https://utoronto.academia.edu/AzizurRahman>) **Website2** (<https://climatechangeresearch.ca/dr-rahman/>)

Editorial Board Member

Centre for Climate Change Research, University of Toronto, ONRamp at UTE, Toronto, Canada

Interests: marine proteins; soft corals; marine collagen; marine chitin; marine polysaccharides; drug discovery; biomineralization; biomaterials; marine invertebrates; marine algae; proteomics; marine biotechnology

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Mostafa Rateb (<https://sciprofiles.com/profile/429073>)

Website (<https://research-portal.uws.ac.uk/en/persons/mostafa-rateb>)

Editorial Board Member

School of Computing, Engineering, & Physical Sciences, University of the West of Scotland, Paisley PA1 2BE, UK

Interests: bioactive microbial natural products; marine bacteria; marine endophytes; structure elucidation

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Amélia Pilar Rauter (<https://sciprofiles.com/profile/266604>)

Website (<https://webpages.ciencias.ulisboa.pt/~aprauter/>)

Editorial Board Member

Departamento de Química e Bioquímica (DQB) e Centro de Química e Bioquímica (CQB), Faculdade de Ciências, Universidade de Lisboa (FCUL), Rua Ernesto de Vasconcelos, Campo Grande, Edifício C8, 5º Piso, 1749-016 Lisboa, Portugal

Interests: carbohydrate small molecule synthesis; organic and biomolecular chemistry developments towards new therapeutic approaches for diabetes; Alzheimer's disease and other amyloid diseases and carbohydrate-based antibiotics

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Beatriz Reguera (<https://sciprofiles.com/profile/379578>)

Website (<https://vgohab.com/en/personal/beatriz-reguera>)

Editorial Board Member

Spanish Institute of Oceanography (IEO), Oceanographic Centre of Vigo, Subida a Radio Faro 50, 36390 Vigo, Spain

Interests: harmful algal blooms; autoecology; physiology; population dynamics; Dinophysis species

Special Issues, Collections and Topics in MDPI journals



Dr. Fernando Reyes (<https://sciprofiles.com/profile/11351>)

Website (https://www.researchgate.net/profile/Fernando_Reyes3)

Editorial Board Member

Fundación MEDINA, Avda del Conocimiento 34, Parque Tecnológico Ciencias Salud, E-18016 Granada, Spain

Interests: chromatography; mass spectrometry; liquid chromatography; natural product chemistry; nuclear magnetic resonance; bioactivity; medicinal chemistry; NMR structure elucidation; LC-MS/MS; MIC; compound isolation; structure elucidation; natural products; metabolite identification; alkaloids; pharmacognosy; bioassays; HPLC-UV; bioactive secondary metabolites; marine natural products

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Raffaele Riccio (<https://sciprofiles.com/profile/844085>)

Website (<https://scholar.google.com/citations?user=UDW8XxsAAAAJ&hl=en>)

Editorial Board Member

Department of Pharmacy, University of Salerno, Via Giovanni Paolo II, 132, Fisciano, Italy

Interests: chemistry of bioactive natural products from marine and terrestrial sources; approaches to the stereochemical determination of organic molecules by NMR and computational methods; target identification of bioactive natural products and investigation of ligand-receptor interactions by NMR and MS techniques, combined with computational tools

Special Issues, Collections and Topics in MDPI journals



Dr. Giovanna Romano (<https://sciprofiles.com/profile/969>)

Website (<http://www.szn.it/index.php/it/personale/staff/164-romano-giovanna/827-romano-giovanna>)

Editorial Board Member

Marine Biotechnology Department, Stazione Zoologica Anton Dohrn, Naples, Italy

Interests: bioactive metabolites from marine organisms for pharmaceutical; nutraceutical and cosmeceutical applications; novel strategies to identify marine-derived compounds; including -omic approaches

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Ryuichi Sakai (<https://sciprofiles.com/profile/116926>)

Website (<http://www2.fish.hokudai.ac.jp/faculty-member/sakai-ryuichi/?key=en>)

Editorial Board Member

Faculty and Graduate School of Fisheries Sciences, Hokkaido University, Hakodate, Japan

Interests: marine natural products; biological activity; biological function; chemical ecology; metabolomics; biosynthesis; biomineralization; neuroactive; glutamate receptor; hematopoietic cytokine; lectin; bioactive protein; drug delivery; toxin; polyamine; GPCR; membrane; anticancer; antiviral

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Jose A. Salas (<https://sciprofiles.com/profile/11150>)

Website (https://biofun.uniovi.es/areas/microbiologia/-/asset_publisher/0009/content/salas-fernandez-jose-antonio?redirect=%2Fareas%2Fmicrobiologia)

Editorial Board Member

Department of Functional Biology (Area Microbiology), Faculty of Medicine, University of Oviedo, 33006 Oviedo, Spain

Interests: bioactive natural products; anticancer agents; antimicrobial agents; biosynthesis; polyketides; nonribosomal peptides; glycosylated compounds



Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Christine Salomon (<https://sciprofiles.com/profile/11139>)

Website (<https://orcid.org/0000-0003-4976-598X>)

Editorial Board Member

Center for Drug Design, University of Minnesota, MMC 204, 7-146 PWB, 516 Delaware St. SE, Minneapolis, MN 55455, USA

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Interests: marine microbiology; microbial natural products; microbial ecology; actinomycetes; symbiosis; polyketide synthase; non-ribosomal peptide synthetase

Prof. Dr. Francisco Sarabia (<https://sciprofiles.com/profile/11142>)

Website (<https://www.uma.es/departamento-de-quimica-organica/info/55496/personal-dpto-quimica-organica-francisco-r-sarabia/>)

Editorial Board Member

Department of Organic Chemistry, Faculty of Science, University of Málaga, 29071 Málaga, Spain

Interests: natural products; bioactive compounds; total synthesis; antitumor; antibiotics; cyclodepsipeptides; cyclopeptides

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Sonia Scarfi (<https://sciprofiles.com/profile/903163>)

Website (<https://rubrica.unige.it/personale/UkNHWF5q>)

Editorial Board Member

1. Department for Earth, Environment and Life Sciences (DISTAV), University of Genoa, Via Pastore 3, I-16132 Genoa, Italy

2. Inter-University Center for the Promotion of the 3Rs Principles in Teaching and Research (Centro 3R), Pisa, Italy

Interests: natural products in biomedicine; inflammation; cell molecular biology of adult stem cells and of marine organisms; tissue engineering

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Till F. Schäberle (<https://sciprofiles.com/profile/757>)

Website (<https://www.uni-giessen.de/fbz/fb09/institute/iib/nsf/mb/principal%20investigator>)

Editorial Board Member

Institute for Insect Biotechnology, Justus-Liebig-University Giessen, 35392 Giessen, Germany

Interests: specialized metabolites; biosynthesis; drug discovery; anti-infectives; antibiotics; heterologous expression; metabolomics

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Benoît Schoefs (<https://sciprofiles.com/profile/98096>)

Website (<https://orcid.org/0000-0002-7804-8130>)

Editorial Board Member

Metabolism, Bioengineering of Microalgal Molecules and Applications (MIMMA), Mer Molécules Santé, Le Mans University, 72085 Le Mans, France

Interests: photosynthesis; carotenoids; plant physiology; secondary metabolites; chlorophyll; stress physiology; microalgae

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Stefan Schulz (<https://sciprofiles.com/profile/2736>)

Website (<http://www.oc.tu-bs.de/schulz/html/ssschulz.html>)

Editorial Board Member

Institute of Organic Chemistry, TU Braunschweig, Hagenring 30, 38106 Braunschweig, Germany

Interests: chemical communication; marine bacteria; bacterialvolatiles; chemical ecology; pheromones; defense compounds; biosynthesis; structural diversity

Prof. Dr. Mark Searcey (<https://sciprofiles.com/profile/11151>)

Website (<https://cancerresearchnorwich.org.uk/researcher/mark-searcey/>)

Editorial Board Member

School of Pharmacy, University of East Anglia, Norwich, Norfolk NR4 7TJ, UK

Interests: natural products in medicinal chemistry; higher order nucleic acid structures; new targets for cancer research and protein-protein interactions

Special Issues, Collections and Topics in MDPI journals

Dr. João Carlos Serafim Varela (<https://sciprofiles.com/profile/29985>)

Website (<https://www.ccmr.uaig.pt/users/jvarela>)

Editorial Board Member

Centre of Marine Sciences, University of Algarve, 8005-139 Faro, Portugal

Interests: microalgae; biofuels; marine bioactives; carotenoids; marine biotechnology

Special Issues, Collections and Topics in MDPI journals



Dr. Lamiaa Shaala (<https://sciprofiles.com/profile/2418581>)

Website (<https://orcid.org/0000-0002-1866-8258>)

Editorial Board Member

Suez Canal University Hospital, Suez Canal University, Ismailia 41522, Egypt

Interests: marine natural products; marine biodiversity; invertebrates; cyanobacteria; marine microbes; structure determinations; marine alkaloids; antitumor and antibiotics

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. David H. Sherman (<https://sciprofiles.com/profile/11156>)

Website (<https://pharmacy.umich.edu/people/davidhs>)

Editorial Board Member

Department of Medicinal Chemistry, Life Sciences Institute, University of Michigan, 210 Washtenaw Avenue, Ann Arbor, MI 48109-2216, USA

Interests: marine microbiology; natural product biosynthesis; chemoenzymatic synthesis; infectious diseases; anti-cancer therapeutics

Prof. Dr. Alexander N. Shikov (<https://sciprofiles.com/profile/280947>)

Website (<https://orcid.org/0000-0003-4351-0695>)

Editorial Board Member

Department of Technology of Pharmaceutical Formulations, Saint-Petersburg State Chemical Pharmaceutical University, Saint-Petersburg, Russia

Interests: natural products; sea urchins; algae; chemistry; pharmacology

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Hee Jae Shin (<https://sciprofiles.com/profile/1495156>)

Website (<https://scijwatch.kiost.ac.kr/researcher-profile?ep=361&type=article>)

Editorial Board Member

Korea Institute of Ocean Science and Technology (KIOST), Busan, Korea

Interests: marine natural products; biomedical applications; drug discovery; anticancer compounds; anti-inflammatory compounds; antimicrobial compounds diseases

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Jongheon Shin (<https://sciprofiles.com/profile/30195>)

Website (<https://emeritus.snu.ac.kr/node/1311>)

Editorial Board Member

College of Pharmacy, Seoul National University, Seoul 151-742, Republic of Korea

Interests: structure determination of novel marine (some terrestrial) compounds; sponges; ascidians; fungi and actinomycetes

Prof. Dr. Kyung-Hoon Shin (<https://sciprofiles.com/profile/132744>)

Website (<https://orcid.org/0000-0002-3169-4274>)

Editorial Board Member

Department of Marine Sciences and Convergent Technology, Convergence College of Science and Technology, Hanyang University, 55, Hanyangdaehak-ro, Sangrok-Gu, Ansan, Gyeonggi-do, 15588, South Korea

Interests: marine organic matter; marine biogeochemistry; stable isotope; organic biomarkers; aquatic ecology; marine food web; marine algae; phytoplankton productivity, bioactive compounds; organic geochemistry

Special Issues, Collections and Topics in MDPI journals

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Prof. Dr. Alba Silipo (<https://sciprofiles.com/profile/267318>)

Website (<https://www.docenti.unina.it/ALBA.SILIPO>)

Editorial Board Member

Department of Chemical Sciences, University of Napoli Federico II, Complesso Universitario Monte S. Angelo, Via Cintia 4, I-80126 Napoli, Italy

Interests: glycoconjugates; lipopolysaccharides; NMR spectroscopy; innate immunity; NMR study of protein-ligand interaction; NMR-based conformational analysis

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Artur M. S. Silva (<https://sciprofiles.com/profile/77309>)

Website (<https://www.ua.pt/pt/qopna/arturmssilva>)

Editorial Board Member

LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal

Interests: organic chemistry; green synthetic organic chemistry; synthesis of heterocyclic compounds; natural products; NMR techniques; synthesis of new compounds with biocidal and antioxidant activities

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Danielle Skropeta (<https://sciprofiles.com/profile/17073>)

Website (<https://orcid.org/0000-0002-2293-7916>)

Editorial Board Member

School of Chemistry, University of Wollongong, Wollongong, NSW 2522, Australia

Interests: medicinal chemistry; enzyme inhibitors; anti-cancer agents

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Loredana Stabili (<https://sciprofiles.com/profile/118697>)

Website (https://scholar.google.com/citations?user=q_c6SeUAAAAJ&hl=en)

Editorial Board Member

1. Water Research Institute (IRSA)- CNR, 74100 Taranto, Italy;

2. Department of Science and Biological and Environmental Technologies, University of Salento, 72100 Lecce, Italy

Interests: marine microbiology; marine biology; immunology; microbial ecology

Dr. Dagmar B Stengel (<https://sciprofiles.com/profile/1182424>)

Website (<https://www.nuigalway.ie/our-research/people/natural-sciences/dagmarstengel/>)

Editorial Board Member

Botany and Plant Science, School of Natural Sciences and Ryan Institute; National University of Ireland Galway, Ireland

Interests: algae; seaweeds; microalgae; algal ecophysiology and biotechnology; high-value products from algae; biorefineries; biomass optimisation; drivers of algal chemodiversity

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Valentin A. Stonik (<https://sciprofiles.com/profile/29725>)

Website (<http://www.piboc.dvo.ru/en/structure/biosintez/lab1.php>)

Editorial Board Member

G.B. Elyakov Pacific Institute of Bioorganic Chemistry, Far Eastern Branch of Russian Academy of Sciences, 159 Prospect 100-let Vladivostoku, Vladivostok 690022, Russia

Interests: marine natural product chemistry; glycosides; glycoconjugates; steroids; terpenoids; uncommon glycolipids; other marine metabolites; structures; bioactivities; chemistry; biochemistry; cell biology; pharmacology

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Michael K. Stoskopf (<https://sciprofiles.com/profile/10611>)

Website (<https://cnr.ncsu.edu/directory/michael-stoskopf/>)

Editorial Board Member

Department of Clinical Sciences, College of Veterinary Medicine, North Carolina State University, 1060 William Moore Drive, Raleigh, NC 27607, USA

Interests: marine metabolomics; environmental pharmacokinetics; glycolipid structure; lipid profiling; marine animal health risk assessment

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Orazio Tagliatalata-Scafati (<https://sciprofiles.com/profile/60391>) *

Website1 (<https://www.docenti.unina.it/#!/professor/4f52415a494f5441474c49414c4154454c41205343414641544954474c525a4f37304c30364638333947/curriculum>)

Website2 (<https://sites.google.com/site/phytochemistrygroup/home>)

Editorial Board Member

Department of Pharmacy, University of Naples Federico II, Naples, Italy

Interests: marine and terrestrial natural products; pharmaceutical biology; stereostructure elucidation; bioactivity

* Prof. Dr. Orazio Tagliatalata-Scafati served as the Editor-in-Chief of Marine Drugs from August 2018 to October 2022.

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Junsei Taira (<https://sciprofiles.com/profile/171444>)

Website (<https://sites.google.com/site/junseitaira/>)

Editorial Board Member

Department of Bioresources Engineering, National Institute of Technology, Okinawa College, Okinawa 905-2192, Japan

Interests: oxidative stress and modulators; physiologically active substances; antioxidants; anticancer drugs

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Elena Talero (<https://sciprofiles.com/profile/127703>)

Website (https://investigacion.us.es/sisius/sis_showpub.php?idpers=8431)

Editorial Board Member

Department of Pharmacology, Faculty of Pharmacy, University of Seville, Seville, Spain

Interests: peptides; natural products; inflammation; inflammatory bowel disease; colon cancer; inflammatory skin diseases

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Junichi Tanaka

Website (<https://researchmap.jp/read0018028>)

Editorial Board Member



Prof. Dr. Deniz Tasdemir (<https://sciprofiles.com/profile/98476>)

Website (<https://www.geomar.de/en/staff/fb3/mn/tasdemir-deniz>)

Editorial Board Member

Marine Natural Products Chemistry Research Unit, GEOMAR Helmholtz Centre for Ocean Research Kiel, Am Kiel-Kanal 44, Kiel 24106, Germany

Interests: marine natural product chemistry; marine microbiology; deep-sea organisms; structure elucidation; bioactivity; cancer; infectious diseases

Special Issues, Collections and Topics in MDPI journals



Dr. Elisabetta Tosti (<https://sciprofiles.com/profile/11167>)

Website (<https://orcid.org/0000-0002-3157-8628>)

Editorial Board Member

Department of Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn, 8012, Naples, Italy

Interests: marine animals; reproduction; fertilization; ion currents; environmental stress

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Victor Tsetlin (<https://sciprofiles.com/profile/392634>)

Website (<http://www.ibch.ru/en/about/history/personalia/12>)

Editorial Board Member

Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow, Russia

Interests: peptide and protein neurotoxins, nicotinic and other Cys-loop receptors

Special Issues, Collections and Topics in MDPI journals



Dr. Mikhail V. Tsurkan (<https://sciprofiles.com/profile/220674>)

Website (<https://www.iprdd.de/de/organisation/abteilungen-und-gruppen/institute-of-biofunctional-polymer-materials/team/dr-mikhail-tsurkan/>)

Editorial Board Member

Leibniz Institute of Polymer Research (IPF), Dresden, Germany

Interests: Marine biomaterials; Chitin; Hydrogel materials; Medicinal chemistry

Dr. Kellie L. Tuck (<https://sciprofiles.com/profile/34547>)

Website (<https://research.monash.edu/en/persons/kellie-tuck>)

Editorial Board Member

School of Chemistry, Clayton Campus, Monash University, Victoria 3800, Australia

Interests: synthesis of bioactive compounds (peptidomimetics and natural products) with potential therapeutic applications

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Tom Turk (<https://sciprofiles.com/profile/46866>)

Website (<https://www.bf.uni-lj.si/en/about-the-faculty/employees/273/tom-turk/>)

Editorial Board Member

Department of Biology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia

Interests: marine natural compounds; antifouling; toxicity; coatings; environment

Special Issues, Collections and Topics in MDPI journals

Dr. Mike J. Twiner (<https://sciprofiles.com/profile/11138>)

Website (<http://www-personal.umd.umich.edu/~mtwiner/>)

Editorial Board Member

Department of Emergency Medicine, Wayne State University, Detroit, MI 48201, USA

Interests: harmful algal blooms; phycotoxins; mechanisms of action; cardiovascular disease; hypertension; nitroglycerin

Prof. Dr. Jan Tytgat (<https://sciprofiles.com/profile/11515>)

Website (<https://gbiomed.kuleuven.be/english/research/50000715/50000721/>)

Editorial Board Member

Laboratory of Toxicology & Pharmacology, University of Leuven (KU Leuven), Campus Gasthuisberg, Herestraat 49, 3000 Leuven, Belgium

Interests: natural and bioactive compounds; animal venoms & toxins; structure-function relationships; ion channels & receptors; electrophysiology; pharmacology



Prof. Dr. Roland Ulber (<https://sciprofiles.com/profile/104495>)

Website (<https://www.mv.uni-kl.de/en/biovt/chair/staff/prof-roland-ulber/>)

Editorial Board Member

Department of Mechanical and Process Engineering, Technische Universität Kaiserslautern, Kaiserslautern, Germany

Interests: white (industrial) and marine biotechnology; biocatalysis; the development of downstream processes

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Sylvia Urban (<https://sciprofiles.com/profile/1603>)

Website (<https://www.rmit.edu.au/contact/staff-contacts/academic-staff/u/urban-associate-professor-sylvia>)

Editorial Board Member

School of Science (Applied Chemistry and Environmental Science), RMIT University, Melbourne, Australia

Interests: marine and terrestrial natural products chemistry; isolation and structural characterization; NMR spectroscopy; analytical separation methodologies

Special Issues, Collections and Topics in MDPI journals



Dr. Ralph Urbatzka (<https://sciprofiles.com/profile/186330>)

Website (<https://www2.ciimar.up.pt/team.php?id=334>)

Editorial Board Member

CIIMAR – Interdisciplinary Centre of Marine and Environmental Research, Matosinhos, Portugal

Interests: bioactivity screening; natural products; elucidation of molecular mechanism; obesity and related diseases; cyanobacteria bioactive compounds

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Yoshihide Usami (<https://sciprofiles.com/profile/11223>)

Website (<https://researchmap.jp/oupsoc/?lang=english>)

Editorial Board Member

Department of Pharmaceutical Organic Chemistry, Faculty of Pharmacy, Osaka Medical and Pharmaceutical University, Osaka, Japan

Interests: marine natural product; total synthesis; structural determination; bioactive; small molecule; azole

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Anatolii I. Usov (<https://sciprofiles.com/profile/509297>)

Website (<http://glycoscience.ru/Lab/people.html>)

Dr. Paulo Vale (<https://sciprofiles.com/profile/45391>)

Website (<https://orcid.org/0000-0002-2524-4453>)

Editorial Board Member

Portuguese Institute for the Sea and Atmosphere, Sea and Marine Resources Department (DMRM), Lisbon, Portugal

Interests: marine biotoxins; toxicology; monitoring programmes; seafood safety; dinoflagellate cultures; bioelectromagnetism; heliobiology; photobiology; HPLC & LC-MS, ELISA

Prof. Dr. Patricia Valentão (<https://sciprofiles.com/profile/10820>)

Website (https://sigarra.up.pt/ffup/en/FUNC_GERAL.FORMVIEW?p_codigo=307613)

Editorial Board Member

REQUIMTE/LAQV, Laboratory of Pharmacognosy, Faculty of Pharmacy, University of Porto, Rua de Jorge Viterbo Ferreira 228, 4050-313 Porto, Portugal

Interests: metabolite profiling of natural matrices; evaluation of bioactive agents from natural sources; polyphenols

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Vitor Vasconcelos (<https://sciprofiles.com/profile/106>)

Website (<https://www2.ciimar.up.pt/team.php?id=411>)

Editorial Board Member

1. Faculty of Sciences, University of Porto, Rua do Campo Alegre, 4069-007 Porto, Portugal

2. CIMAR/CIMAR, Interdisciplinary Centre of Marine and Environmental Research, University of Porto, Terminal de Cruzeiros do Porto de Leixões, Av. General Norton de Matos, s/n, 4450-208 Porto, Portugal

Interests: cyanobacteria; toxins; cyanotoxins; marine biotechnology; secondary metabolites; cyanobacterial blooms; ecotoxicology; environmental contamination

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Jose Maria Vega (<https://sciprofiles.com/profile/1477177>)

Website (<http://www.departamento.us.es/dbiovege/personal.php?id=2>)

Editorial Board Member

Department of Plant Biochemistry and Molecular Biology, Faculty of Chemistry, University of Seville, Spain

Interests: Carotenoid; Microalgae Biotechnology; Nitrogen and Sulfur Metabolism



Prof. Dr. Sadanandan E. E. Velu (<https://sciprofiles.com/profile/11147>)

Website (<http://scholars.uab.edu/display/svelu>)

Editorial Board Member

Department of Chemistry, University of Alabama at Birmingham, Alabama, USA

Interests: organic/medicinal chemistry; drug discovery and development; anti-cancer and anti-infective agents; synthesis of marine natural products and their analogs; structure based drug design; SAR studies and lead optimization

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Natalia Vilarinho (<https://sciprofiles.com/profile/94023>)

Website (<https://www.usc.gal/en/departament/pharmacology-pharmacy-and-pharmaceutical-technology/directory/natalia-vilarino-rio-131564>)

Editorial Board Member

Departamento de Farmacología, Facultad de Veterinaria, Universidad de Santiago de Compostela, Campus de Lugo, 27002 Lugo, Spain

Interests: marine toxin; toxicity study; identification; phycotoxins

Special Issues, Collections and Topics in MDPI journals

Dr. Rosa Maria Vitale (<https://sciprofiles.com/profile/563749>)

Website (<https://www4.na.icb.cnr.it/en/teams/rosa-maria-vitale-2>)

Editorial Board Member

Institute of Biomolecular Chemistry (ICB), National Research Council of Italy, Via Campi Flegrei 34, 80078 Pozzuoli, NA, Italy

Interests: molecular docking; molecular dynamics; virtual screening; natural products; drug design; structure-activity relationships

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Bin-Gui Wang (<https://sciprofiles.com/profile/1139935>)

Website (http://english.gdio.cas.cn/people2016/faculty_and_staff2016/201907/t20190719_213309.html)

Editorial Board Member

Key Laboratory of Experimental Marine Biology, Institute of Oceanology, Chinese Academy of Sciences, Nanhai Road 7, Qingdao 266071, China

Interests: natural product chemistry; bioactive compounds; drug discovery; structure determination

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Chang-Yun Wang (<https://sciprofiles.com/profile/326418>)

Website (<http://smp.ouc.edu.cn/2019/0826/c17382a257211/page.htm>)

Editorial Board Member

Key Laboratory of Marine Drugs, The Ministry of Education of China, School of Medicine and Pharmacy, Ocean University of China, Qingdao 266003, China

Interests: marine natural product; marine drugs; marine medicinal bioresources

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Hong Wang (<https://sciprofiles.com/profile/402404>)

Website (<http://www.marinedrug.zjut.edu.cn/users/wang-hong>)

Editorial Board Member

The College of Pharmaceutical Science, Zhejiang University of Technology, Hangzhou, China

Interests: marine microbial natural products; antibiotics resistance; genome mining; bioinformatics; marine drugs

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Peng George Wang (<https://sciprofiles.com/profile/530354>)

Website (<https://orcid.org/0000-0003-3335-6794>)

Editorial Board Member

Department of Chemistry, Georgia State University, PSC787, 100 Piedmont Avenue, Atlanta, GA 30303, USA

Interests: bioorganic chemistry; synthesis of natural products; medicinal chemistry; carbohydrate chemistry; biotechnology; bioengineering; green chemistry; bioanalytical chemistry

Dr. Lyndon West

Website (<http://chemistry.fau.edu/directory/lwest.php>)

Editorial Board Member



Prof. Dr. Philip Williams (<https://sciprofiles.com/profile/903>)

Website (<https://manoa.hawaii.edu/chem/williams-group-homepage/>)

Editorial Board Member

Department of Chemistry, University of Hawaii at Manoa, 2545 McCarthy Mall, Bilger 245A, Honolulu, HI 96822, USA

Interests: marine natural products; bioactive natural products; nuclear magnetic resonance spectroscopy



Prof. Dr. Bin Wu (<https://sciprofiles.com/profile/54893>)

Website (<https://person.zju.edu.cn/en/wubin>)

Editorial Board Member

Ocean College, Zhejiang University, Hangzhou 310058, China

Interests: marine natural product chemistry

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



Prof. Dr. Yang-Chang Wu (<https://sciprofiles.com/profile/172184>)

Website (https://www.cmuh.cmu.edu.tw/Doctor/DoctorInfo_EN?docid=A20868)

Editorial Board Member

Graduate Institute of Integrated Medicine, College of Chinese Medicine, China Medical University, Taichung 404333, Taiwan

Interests: natural product medicinal chemistry; bioactive compounds; translational research on Chinese herbal medicine and natural medicinal products—functional food and new drug development

Prof. Dr. Changhu Xue (<https://sciprofiles.com/profile/621126>)

Website (<http://web.ouc.edu.cn/fse/xuechanghu/list.htm>)

Editorial Board Member

College of Food Science and Engineering, Ocean University of China, Qingdao 266003, China

Interests: active lipids; polysaccharides; saponin; brain function; metabolic syndrome

Prof. Dr. Xian-Wen Yang (<https://sciprofiles.com/profile/15248>)

Website (<http://en.tio.org.cn/web/scientists/scientist-detail.html?uid=ff8080816e7c9116016e87dd60f60004&labId=1&action=1>)

Editorial Board Member

Key Laboratory of Marine Biogenetic Resources, Third Institute of Oceanography, Ministry of Natural Resources, 184 Daxue Road, Xiamen 361005, China

Interests: marine drugs; deep-sea-derived microorganisms; fungi; secondary metabolites; bioactive compounds

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Prof. Dr. Diaa Youssef (<https://sciprofiles.com/profile/388323>)

Website (<https://orcid.org/0000-0003-2217-4039>)

Editorial Board Member

Faculty of Pharmacy, King Abdulaziz University, P.O. Box 80260, Jeddah 21589, Saudi Arabia

Interests: marine natural products; marine toxins; harmful algal blooms; dinoflagellates; cyanobacteria; sponges; environmental metabolomics; marine chemical ecology

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Prof. Dr. Jordan K. Zjawiony (<https://sciprofiles.com/profile/93392>) *

Website (<https://pharmacy.olemiss.edu/bms/team/dr-jordan-k-zjawiony/>)

Editorial Board Member

Department of BioMolecular Sciences, School of Pharmacy, University of Mississippi, MS 38677, USA

Interests: marine biotechnology; pharmacognosy; natural products; semisynthesis; medicinal chemistry

* Former Associate Editor of Marine Drugs

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Prof. Dr. Eva Zubia (<https://sciprofiles.com/profile/11168>)

Website (https://scholar.google.com/citations?hl=es&user=D_46rDQAAAAJ&view_op=list_works&sortby=pubdate)

Editorial Board Member

Department of Organic Chemistry, Faculty of Marine and Environmental Sciences, University of Cadiz, Spain

Interests: marine natural products chemistry; isolation and structure elucidation; bioactivity; cytotoxic; antioxidant, anti-inflammatory compounds

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Dr. Alberto Amato (<https://sciprofiles.com/profile/1470338>)

Website (https://scholar.google.com/citations?hl=en&user=gr1x3uJAAAAJ&view_op=list_works&sortby=pubdate)

Section Board Member

Laboratoire de Physiologie Cellulaire et Végétale, IRIG-CEA Grenoble 1è Avenue des Martyrs, CEDEX 9, 38 054 Grenoble, France

Interests: biotechnology; transcriptomics; genomics; lipidomics; microalgae

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Dr. Romulo Araoz

Website (https://www.researchgate.net/profile/Romulo_Araoz)

Section Board Member

CNRS/ Institut de Neurosciences Paris-Saclay, UMR9197 CEA/ DRF/ Institut Frédéric Joliot/ SIMOPRO/ Université Paris-Saclay Toxines, Récepteurs et Canaux ioniques CEA

Saclay, Bât. 152, 91191 Gif sur Yvette, France

Interests: marine natural products

Prof. Dr. Paola Barraja (<https://sciprofiles.com/profile/758987>)

Website (<http://www.unipa.it/persona/docenti/b/paola.barraja>)

Section Board Member

Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Palermo, Italy

Interests: synthesis of heterocyclic compounds; antitumor agents; photodynamic therapy; cystic fibrosis; kinases; antimetabolic agents

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Dr. Juan C. Blanco (<https://sciprofiles.com/profile/2615294>)

Website (<https://www.researchgate.net/profile/Juan-Blanco-6>)

Section Board Member

Marine Research Centre (CIMA), Pedras do Corón s/n, Aptdo. 13, Vilanova de Arousa, Pontevedra 36620, Spain

Interests: harmful algal blooms; toxin accumulation in shellfish; physiology; biotransformation; modeling

Dr. Hans-Matti Blencke (<https://sciprofiles.com/profile/2635454>)

Website (<https://orcid.org/0000-0002-6759-4566>)

Section Board Member

Prof. Dr. John Boukouvalas

Website (<https://www.chm.ulaval.ca/departement-et-professeurs/professeurs-et-personnel/professeurs/fiche/show/boukouvalas-john/>)

Section Board Member

Département de Chimie, Université Laval, Québec, QC G1K 7P4, Canada

Interests: natural product synthesis; terpenoids; oxacycles; butenolides; organic peroxides



Prof. Dr. Joel D. Bumgardner (<https://sciprofiles.com/profile/12661>)

Website (<http://www.memphis.edu/bme/faculty/drjbprofile.php>)

Section Board Member

Department of Biomedical Engineering, UT-UofM Joint Graduate Program in Biomedical Engineering, The University of Memphis, Engineering Technology Bldg, Memphis, TN 38152, USA

Interests: chitosan; bone; cartilage; tissue engineering; dental/craniofacial implants; orthopedic implants

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Immacolata Castellano (<https://sciprofiles.com/profile/459081>)

Website (<https://www.researchgate.net/profile/Immacolata-Castellano>)

Section Board Member

Department of Molecular Medicine and Medical Biotechnology, University of Naples Federico II, 80131 Naples, Italy

Interests: discovery of marine sulfur-containing histidine activities; evolution of natural products biosynthesis; anti-oxidant activities; enzyme target characterization; molecular mechanisms underpinning the response and adaptation of organisms to the marine environment

Special Issues, Collections and Topics in MDPI journals



Dr. Marcelo D. Catarino (<https://sciprofiles.com/profile/280801>)

Website (https://www.researchgate.net/profile/Marcelo_Catarino)

Section Board Member

LAQV-REQUIMTE, Department of Chemistry, Universidade de Aveiro, 3810-193 Aveiro, Portugal

Interests: marine resources; seaweeds; natural compounds; polyphenols; structural analysis; bioactive properties; bioaccessability; bioavailability and metabolism; (bio)technological applications

Special Issues, Collections and Topics in MDPI journals

Prof. Dr. Feng Chen (<https://sciprofiles.com/profile/2161128>)

Website (https://www.clemson.edu/cafls/faculty_staff/profiles/fchen)

Section Board Member

Department of Food Science and Human Nutrition, Clemson University, Clemson, SC, USA

Interests: functional food/nutraceuticals; food flavor chemistry; volatile chemical profiles; Food safety



Dr. Alessandro Concas (<https://sciprofiles.com/profile/1429201>)

Website (https://www.unica.it/unica/en/ateneo_s07_ss01_ss01.page?contentId=SHD216317)

Section Board Member

1. Department of Mechanical, Chemical and Materials Engineering, University of Cagliari, Piazza d'Armi, 09123 Cagliari, Italy
2. Interdepartmental Center of Environmental Science and Engineering (CINSA), University of Cagliari, Via San Giorgio 12, 09124 Cagliari, Italy

Interests: microalgae; macroalgae; cyanobacteria; cultivation and harvesting of microalgae; bioactive molecules from seaweed; extraction and purification technologies; solvent extraction; supercritical fluid extraction; optimization of extraction and purification; biotechnology optimization; mathematical modelling; lipid metabolism in microalgae

Dr. Enrico D'Aniello (<https://sciprofiles.com/profile/549096>)

Website (<https://www.szn.it/index.php/it/personale/staff/571-d-aniello-enrico/1255-d-aniello-enrico>)

Section Board Member

Stazione Zoologica Anton Dohrn, Department of Biology and Evolution of Marine Organisms, 80122 Napoli, Italy

Interests: nuclear receptor; lipid metabolism; epigenetics; DNA methylation; antifouling; transcriptional regulation

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Dr. Giuliana d'Ippolito (<https://sciprofiles.com/profile/654400>)

Website (<https://www4.na.icb.cnr.it/teams/giuliana-dippolito/>)

Section Board Member

CNR-Institute of Biomolecular Chemistry, Naples, Italy

Interests: natural products; biosynthesis; lipids; microbial metabolism; biofuels; diatoms; hyperthermophiles



Dr. Andrea Doderò (<https://sciprofiles.com/profile/1078685>)

Website (<https://www.ami.swiss/en/about-us/contact/people-a-z/person.html?personid=925>)

Section Board Member

Adolphe Merkle Institute, University of Fribourg, Fribourg, Switzerland

Interests: biopolymers; biomedical applications; hydrogels; electrospinning; rheology; block copolymers; self-assembly; photonics; colloids

Special Issues, Collections and Topics in MDPI journals



Dr. Susana C. M. Fernandes (<https://sciprofiles.com/profile/269882>)

Website (https://iprem.univ-pau.fr/fr/_plugins/mypage/mypage/content/sfernande004.html)

Section Board Member

Institut des Sciences Analytiques et de Physico-Chimie pour l'Environnement et les Matériaux, UMR 5254, 64053 Pau, France

Interests: biopolymers; (bio)materials; bionanocomposites; functional polymeric materials; marine inspiration/biomimetics; valorization marine biomass; red and blue biotechnology; marine bioactive molecules; tissue engineering

Special Issues, Collections and Topics in MDPI journals

Dr. Alessandra Gallo (<https://sciprofiles.com/profile/299302>)

Website (<https://www.szn.it/index.php/it/personale/staff/87-gallo-alessandra/749-gallo-alessandra>)

Section Board Member

Department of Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn, 80122 Naples, Italy

Interests: marine animals; reproduction; fertilization; ion currents; environmental stress

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Prof. Dr. Mary Garson (<https://sciprofiles.com/profile/10597>)

Website (http://old.iupac.org/organ/members/g/garson_m.html)

Section Board Member



Dr. Spyros Gkelis (<https://sciprofiles.com/profile/129077>)

Website (<http://cyanolab.bio.auth.gr/team/>)

Section Board Member

Department of Botany, School of Biology, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece

Interests: microalgae; cyanobacteria; cyanotoxins; biodiversity; phycology; bioinformatics



Dr. Jessica Amber Jennings (<https://sciprofiles.com/profile/5616>)

Website (<https://www.jenningsbmelab.com/>)

Section Board Member

Department of Biomedical Engineering, University of Memphis, Memphis, TN, USA

Interests: chitosan; biopolymers; biofilm; local drug delivery; infection; orthopedics; wound healing

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Manuel Jiménez-Tenorio (<https://sciprofiles.com/profile/586751>)

Website (<https://produccioncientifica.uca.es/investigadores/112793/publicaciones?lang=gl>)

Section Board Member

Department of Material Science and Metallurgy Engineering and Inorganic Chemistry, Universidad de Cadiz, Cadiz, Spain

Interests: organometallic chemistry; inorganic chemistry; homogeneous catalysis; organic synthesis; NMR spectroscopy; venomics; marine drugs; marine toxins; systematics (taxonomy)

Special Issues, Collections and Topics in MDPI journals



Dr. Panagiota Katikou (<https://sciprofiles.com/profile/106828>)

Website (<https://orcid.org/0000-0001-6050-5922>)

Section Board Member

Ministry of Rural Development and Food, Directorate of Research, Innovation and Education, Hapsa & Karatasou 1, 54626 Thessaloniki, Greece

Interests: marine biotoxins; phycotoxins; harmful algal blooms; toxic pufferfish; emerging marine toxins; tetrodotoxins; ciguatoxins; lipophilic toxins; toxic episodes management; phycotoxins regulatory monitoring; marine toxins analysis; mouse bioassay; liquid chromatography mass spectrometry

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Dr. Sandra Lage (<https://sciprofiles.com/profile/74101>)

Website (https://scholar.google.com/citations?hl=pt-PT&user=vc_R5k4AAAAJ&view_op=list_works&sortBy=pupdate)

Section Board Member

CCMAR—Center of Marine Sciences, Campus of Gambelas, University of Algarve, 8005-139 Faro, Portugal

Interests: microalgae; metabolites; biotoxins; chemical-interactions

Special Issues, Collections and Topics in MDPI journals



Dr. Chiara Lauritano (<https://sciprofiles.com/profile/209682>)

Website (<http://www.szn.it/index.php/en/staff/list-of-personnel/298-lauritano-chiara/462-lauritano-chiara>)

Section Board Member

Stazione Zoologica Anton Dohrn, Villa Comunale, 80121 Naples, Italy

Interests: marine organisms; microalgae; transcriptomics; enzymes; bioactivity screening; genome-mining

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Christian Legros (<https://sciprofiles.com/profile/159523>)

Website (<https://mitovasc.univ-angers.fr/en/research/team-2-car-me/ion-channels-in-vascular-function.html>)

Section Board Member

Team 2 CarMe, MITOVASC, University of Angers, INSERM, CNRS, SFR ICAT, 49000 Angers, France

Interests: ion channels; neuropharmacology; cardiovascular diseases; electrophysiology; voltage-gated Na⁺ channels



Dr. Marco F. L. Lemos (<https://sciprofiles.com/profile/996337>)

Website (<https://www.cienciavida.pt/portal/971F-ACCA-COD1>)

Section Board Member

MARE - Marine and Environmental Sciences Centre, ESTM, Politécnico de Leiria, 2520-614 Peniche, Portugal

Interests: biotechnology; bioeconomy; biomarkers; circular economy; stress biology

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Ines Mancini (<https://sciprofiles.com/profile/70778>)

Website (<https://webapps.unitn.it/du/en/Persona/PER0000665/Pubblicazioni>)

Section Board Member

Laboratory of Bioorganic Chemistry, Department of Physics, University of Trento, via Sommarive 14, 38123 Povo-Trento, Italy

Interests: antimicrobial agents; natural products chemistry; liquid chromatography; NMR analysis; mass spectrometry; synthesis of biologically active molecules; structure-based drug design; medicinal chemistry

Special Issues, Collections and Topics in MDPI journals



Dr. Mohamed Mehiri (<https://sciprofiles.com/profile/592563>)

Website (<http://sites.unice.fr/site/fontaine/cn/cms/spip/spip.php?article357&lang=fr>)

Section Board Member

Marine Natural Products Team, Institute of Chemistry of Nice, University Nice Côte d'Azur, CNRS, UMR 7272, 06108 Nice, France

Interests: marine natural products; invertebrates; microorganisms; metabolomics; isolation; structural determination; synthesis; bioactivity




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Dr. Ernesto Mollo (<https://sciprofiles.com/profile/101660>)

Website (<https://www.icb.cnr.it/en/teams/ernesto-mollo-2/>)

Section Board Member

Institute of Biomolecular Chemistry (ICB) at the National Research Council of Italy (CNR), 80078 Pozzuoli, Italy

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Interests: natural products; marine biotechnology; terpenoids; metabolites; marine ecology

Special Issues, Collections and Topics in MDPI journals

Dr. J. Sam Murray (<https://sciprofiles.com/profile/277209>)

Website (<https://www.cawthron.org.nz/our-people/sam-murray/>)

Section Board Member

Cawthron Institute, Nelson 7040, New Zealand

Interests: ciguatera poisoning; liquid chromatography–tandem mass spectrometry; nuclear magnetic resonance spectroscopy; chemical analysis

Dr. Paulo Oliveira (<https://sciprofiles.com/profile/92011>)

Website (<https://www2.ciimar.up.pt/team.php?id=1013>)

Section Board Member

1. CIIMAR - Interdisciplinary Centre of Marine and Environmental Research, University of Porto, Porto, Portugal

2. Department of Biology, Faculty of Sciences, University of Porto, Porto, Portugal

Interests: cyanobacteria; transmembrane protein secretion systems; extracellular vesicles; environmental microbiology; microbial biotechnology; molecular biology; synthetic biology



Dr. Sotiris Orfanidis (<https://sciprofiles.com/profile/719505>)

Website1 (<https://www.eei.gr/EN/orfanidis.html>) **Website2** (https://inale.gr/en/home_inale_en/)

Section Board Member

Research Director, Fisheries Research Institute (HAO-DEMETER), Kavala, Greece

Interests: coastal & transitional waters; biomonitoring; biotic indices; macroalgal ecophysiology / chemical ecology; algal cultivation; ecosystem-based management

Dr. Florbela Pereira (<https://sciprofiles.com/profile/22328>)

Website (<https://orcid.org/0000-0003-4392-4644>)

Section Board Member

LAQV, Department of Chemistry, NOVA School of Science and Technology, NOVA University of Lisbon, 2829-516 Caparica, Portugal

Interests: chemoinformatics; machine learning and data mining techniques; quantitative structure–activity relationship (QSAR); quantitative structure–property relationship (QSPR); big data; DFT-calculated properties; marine natural products (MNP); virtual screening; nuclear magnetic resonance (NMR); dereplication; drug discovery

Special Issues, Collections and Topics in MDPI journals

Dr. Gaurav Rajauria (<https://sciprofiles.com/profile/383365>)

Website (<https://orcid.org/0000-0001-5276-6962>)

Section Board Member

School of Agriculture and Food Science, University College Dublin, Lyons Research Farm, Celbridge, Ireland

Interests: probiotic fermentation; intestinal health; emerging extraction technologies; biological activities; antioxidant properties; biofortification; marine bioactives

Special Issues, Collections and Topics in MDPI journals

Dr. Maria Rambla-Alegre (<https://sciprofiles.com/profile/2767741>)

Website (<https://www.irta.cat/en/personal/maria-rambla-alegre/>)

Section Board Member

IRTA Institute of Agrifood Research and Technology | IRTA · Aquaculture Programme, Constantí, Spain

Interests: marine biotoxins; paralytic shellfish poisoning toxins; tetrodotoxins; ciguatoxins; Seafood

Prof. Dr. Kathleen S. Rein (<https://sciprofiles.com/profile/57640>)

Website (<https://case.fiu.edu/about/directory/profiles/rein-kathleen.html>)

Section Board Member

Department of Chemistry and Biochemistry, Florida International University, Miami, FL 33199, USA

Interests: algal toxins; chemistry; toxicology; pharmacology; biosynthesis; metabolism; endogenous function; biological receptors

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Dr. Alison Robertson (<https://sciprofiles.com/profile/59883>)

Website (<https://www.southalabama.edu/colleges/artsandsci/marinesciences/DrAlisonRobertson.html>)

Section Board Member

Marine Toxicology & Chemistry, Department of Marine Sciences, University of South Alabama, Mobile, AL 36688, USA

Interests: marine and freshwater toxin chemistry; biochemical pathways; metabolism; biomarkers of exposure; and method development for detection of chemical hazards in seafood

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Dr. Luisa C. Rodrigues (<https://sciprofiles.com/profile/1120862>)

Website (<https://3bs.uminho.pt/users/luisarodrigues>)

Section Board Member

1. 3B's Research Group—Biomaterials, Biodegradables and Biomimetics, Headquarters of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine, University of Minho, Ave Park, Zona Industrial da Gandra, 4805-017 Barco GMR, Portugal

2. ICVS/3B's—PT Government Associate Laboratory, 4710-057 Braga/Guimarães, Portugal

Interests: marine polymers; nanomaterials; bioengineering biomedical engineering; nanotechnology; electrochemistry; materials chemistry



Prof. Dr. Jaime Rodriguez (<https://sciprofiles.com/profile/72890>)

Website (<https://www.pronamar.com/en/pr-dr-jaime-rodriguez-gonzalez>)

Section Board Member

Centro de Investigacións Científicas Avanzadas (CICA) e Departamento de Química, Facultade de Ciencias, Universidade de A Coruña, 15071 A Coruña, Spain

Interests: organic structure elucidation; stereochemistry and configurational analysis by NMR and computational methods; organic synthesis of natural products; siderophores; pathogenic bacteria in aquaculture

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Prof. Dr. Daniel Romo (<https://sciprofiles.com/profile/458932>)

Website1 (<https://www.baylor.edu/chemistry/index.php?id=950872>) **Website2** (<https://orcid.org/0000-0003-3805-092X>)

Section Board Member

Department of Chemistry & Biochemistry, Baylor University, 101 Bagby Avenue, Waco, TX 76710, USA

Interests: chemistry and biology of natural products; enduring leads for basic cell biology studies and drug development



Dr. Nedeljka Rosic (<https://sciprofiles.com/profile/869994>)

Website (<https://scholar.google.com.au/citations?user=1ep4JVAAAAJ&hl=en>)

Section Board Member

1. School of Health and Human Sciences, Southern Cross University, Gold Coast, QLD 4225, Australia

2. Marine Ecology Research Centre, Southern Cross University, Lismore, Military Rd., East Lismore, NSW 2480, Australia



Dr. Carolina Shene (<https://sciprofiles.com/profile/1305311>)

Website (<https://icquimica.ufro.cl/contacto.html>)

Section Board Member

Academico, Universidad de la Frontera, Temuco, Chile

Interests: encapsulation of bioactives, antioxidants; marine microorganisms (isolation and culture); microbial lipids

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Dr. Tiago Silva (<https://sciprofiles.com/profile/467843>)

Website (<https://3bs.uminho.pt/users/tiagosilva>)

Section Board Member

3B's Research Group in Biomaterials, Biodegradables and Biomimetics, University of Minho, 4710-057 Braga, Portugal

Interests: marine biomaterials; bioinspired materials; tissue engineering; marine biotechnology; valorization of byproducts; biorefinery and circular economy; surface modification; biomedical applications

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Dr. Valérie Stiger-Pouvreau (<https://sciprofiles.com/profile/38763>)

Website (https://www.luam.univ-brest.fr/lemar/equipe/stiger_valerie/)

Section Board Member

Institut Universitaire Européen de la Mer (IUEM), Université de Bretagne Occidentale | UBO, Brest, France

Interests: marine ecology; invasive species; biotechnology; antioxidants; pharmacology; marine biodiversity; marine environment; extraction; pathogens; bioactivity

Dr. Vasily Svetashev (<https://sciprofiles.com/profile/406893>)

Website (<https://www.researchgate.net/profile/Vasily-Svetashev/2>)

Section Board Member

National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok, Russia

Interests: marker FA; new and uncommon FA; deep-sea marine food web

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Dr. Alexandros Tsoupras (<https://sciprofiles.com/profile/338696>)

Website (<https://www.ul.ie/hri/person/hri-member/dr-alexandros-tsoupras>)

Section Board Member

Department of Chemistry, School of Sciences, International Hellenic University, Kavala, Greece

Interests: CVD; atherosclerosis; endothelial dysfunction; inflammation; atherothrombosis; platelets; leukocytes; PAF; cytokines; chemokines; ADP; collagen; thrombin; anti-inflammatory; antithrombotic; anti-atherogenic; marine; fish; algae; marine plants; mollusks; shellfish; by-products; polar lipids; lipids; PUFA; MUFA; SFA; peptides; bioactives; compounds; vitamins; foods; nutraceuticals; food-supplements; pharmaceuticals; bio-pharmaceuticals; drugs

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Dr. Leto-Aikaterini Tziveleka (<https://sciprofiles.com/profile/273392>)

Website (<https://www.wikidata.org/wiki/Q93184424>)

Section Board Member

Department of Pharmacy, National and Kapodistrian University of Athens, 157 72 Athens, Greece

Interests: functional biomaterials; biocompatible polymers; controlled delivery of bioactive molecules; drug targeting; tissue engineering; nanoparticles; scaffolds

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Prof. Dr. Kazuo Umezawa (<https://sciprofiles.com/profile/50202>)

Website (https://www.aichi-med-u.ac.jp/e.gy.hp.transer.com/data/profile/Staff_0070.html)

Section Board Member

Department of Molecular Target Medicine, Aichi Medical University, Nagakute, Japan

Interests: bioactive metabolite screening from micro-organisms and plants; cellular signal transduction; development of anti-inflammatory and anticancer agents

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Prof. Dr. Frederick A. Valeriote (<https://sciprofiles.com/profile/2755225>)

Website (<https://www.linkedin.cn/in/career/in/frederick-valeriote-6770387>)

Section Board Member

Henry Ford Hospital, Department of Internal Medicine, Detroit, MI, USA

Interests: drug discovery; natural products; synthesis



Prof. Dr. Yuming Wang

Website (<http://eweb.ouc.edu.cn/fse/wangyuming/list.htm>)

Section Board Member

College of Food Science and Engineering, Ocean University of China, Qingdao 266003, China

Interests: marine functional lipids ; brain function ; lipid metabolism ; metabolism syndrome

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Dr. Sik Yoon (<https://sciprofiles.com/profile/323805>)

Website (<https://scholar.google.co.kr/citations?user=97mPrU8AAAAJ&hl=ko>)

Section Board Member

Department of Anatomy, College of Medicine, Pusan National University, Yangsan 50612, Republic of Korea

Interests: biomaterials; 3D cell culture; organoids; marine biology; cancer; immunology; cell biology; thymus regeneration

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Prof. Dr. Huawei Zhang (<https://sciprofiles.com/profile/37075>)

Website (http://www.homepage.zjut.edu.cn/zhw2100_en/)

Section Board Member

School of Pharmaceutical Sciences, Zhejiang University of Technology, Hangzhou 310014 China

Interests: microorganism; secondary metabolite; isolation and structure elucidation; biosynthesis; antimicrobial and cytotoxic assay

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Dr. Tiantian Zhang (<https://sciprofiles.com/profile/291848>)
MDPI
Website (<http://cfse.ouc.edu.cn/2018/0312/c19356a291384/page.htm>)

Section Board Member

College of Food Science and Engineering, Ocean University of China, Qingdao 266003, China

Interests: DHA/EPA; phospholipids; plasmalogen; early life nutrition; neurodegenerative diseases

Special Issues, Collections and Topics in MDPI journals



Dr. Min Zhao (<https://sciprofiles.com/profile/802861>)

Website (<https://www.usc.edu.au/staff/dr-min-zhao>)

Section Board Member

School of Science, Technology and Engineering, University of the Sunshine Coast, Maroochydore DC, QLD 4558, Australia

Interests: bioinformatics; disease genomics; big data integration

Special Issues, Collections and Topics in MDPI journals



Prof. Dr. Xuefeng Zhou (<https://sciprofiles.com/profile/73209>)

Website (<http://people.ucas.edu.cn/~xfzhou?language=en>)

Section Board Member

Key Laboratory of Tropical Marine Bio-Resources and Ecology, Guangdong Key Laboratory of Marine Materia Medica, South China Sea Institute of Oceanology, Chinese

Academy of Sciences, 164 West Xingang Road, Guangzhou 510301, China

Interests: marine natural product chemistry; drug leads; pharmacological mechanism; marine microorganisms; biotransformation

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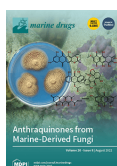
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Mar. Drugs, Volume 20, Issue 8 (August 2022) – 75 articles



Cover Story ([view full-size image \(/files/uploaded/covers/marinedrugs/big_cover-marinedrugs-v20-i8.png\)](#)): Anthraquinones are an important group of fungal secondary metabolites which are biosynthesized via the acetate-malonate pathway. Marine-derived fungi from different ecological niches shown to be important sources of anthraquinones and their derivatives. This class of compounds exhibits a myriad of biological and pharmacological activities such as antibacterial, antifungal, antiviral, antioxidant, anti-inflammatory, anti-fouling, cytotoxicity, as well as inhibition of various enzymes. This review discusses the biosynthesis, structures and sources of 296 anthraquinonoids reported in the literature from 2000 to 2021. In addition, a classification of marine-derived anthraquinones and their derivatives into subclasses, according to their scaffolds, and relevant biological/pharmacological activities of some isolated anthraquinones are highlighted. [View this paper \(https://www.mdpi.com/1660-3397/20/8/474\)](https://www.mdpi.com/1660-3397/20/8/474)

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Open Access Review

  [./1660-3397/20/8/540/pdf?version=166124720](#)**Potential Beneficial Effects of *Sargassum* spp. in Skin Aging (1660-3397/20/8/540)**








by  Min-Kyeong Lee (<https://sciprofiles.com/profile/585196>),  Heeyeon Ryu (<https://sciprofiles.com/profile/1860854>),  Ji Yun Lee (<https://sciprofiles.com/profile/2292821>),  Hyeon Hak Jeong (<https://sciprofiles.com/profile/2019931>),  Jiwon Baek (<https://sciprofiles.com/profile/1860862>),  Ji Yun Van (<https://sciprofiles.com/profile/2023758>),  Myeong-Jin Kim (<https://sciprofiles.com/profile/1860855>),  Won-Kyo Jung (<https://sciprofiles.com/profile/9606>) and  Bonggi Lee (<https://sciprofiles.com/profile/1073588>)

Mar. Drugs 2022, 20(8), 540; <https://doi.org/10.3390/md20080540> (<https://doi.org/10.3390/md20080540>) - 22 Aug 2022

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Abstract Seaweeds are receiving much attention as a rich source of bioactive compounds with cosmeceutical potential. Recent studies have revealed that *Sargassum* spp., a genus of brown algae in the family Sargassaceae, has multiple functions in preventing and improving skin aging. *Sargassum* spp. contains [...] [Read more](#). (This article belongs to the Special Issue **High-Value Products from Seaweeds: Medical, Cosmetic, and Biotechnological Applications** ([Journal/marinedrugs/special_issues/seaweeds_medical_cosmetic_biotechnological](#)))

Open Access Review

  [./1660-3397/20/8/539/pdf?version=166167729](#)**An Insight into the Role of Marine Biopolymer Alginate in Endodontics: A Review (1660-3397/20/8/539)**by  Galvin Sim Siang Lin (<https://sciprofiles.com/profile/1021339>), Chia Yee Cher (<https://sciprofiles.com/profile/author/cDhmZkdmYnc3NW84SVhsdXJRajhTVWJsTXRjYnNpSTFpckUvRHZHQ2oyMD0=>), Yong Hong Goh (<https://sciprofiles.com/profile/author/cm1ZQWlZlVlQ05FM2NsR2lSd0lQdm1BUUxJlUnp3ekxyVUxlNVNsSXbZST0=>), Daryl Zhun Kit Chan (<https://sciprofiles.com/profile/author/V21RS3h3VlBpT012dVpn3pWRYfEcDjMWHvNzB2OTZtVpdWY10EVZWT0=>), Mohamed Isaqall Karobari (<https://sciprofiles.com/profile/1024355>), Josephine Chng Hui Lai (<https://sciprofiles.com/profile/author/Ynl4eWmWbVNHMKz0hkd1ZnYVlikeEsyNGNzHlPgwKtrVINmU0n0SDBXWT0=>) and Tahir Yusuf Noorani (<https://sciprofiles.com/profile/1160321>)

Mar. Drugs 2022, 20(8), 539; <https://doi.org/10.3390/md20080539> (<https://doi.org/10.3390/md20080539>) - 22 Aug 2022









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Abstract Alginate is a natural marine biopolymer that has been widely used in biomedical applications, but research on its use as an endodontic material is still sparse in the literature. This pioneer review aims to summarize the emerging roles of alginate and to outline [...] [Read more](#). (This article belongs to the Special Issue **Alginate-Based Biomaterials and Drug Delivery** ([Journal/marinedrugs/special_issues/alginate-based_biomaterials](#)))

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  [./1660-3397/20/8/538/pdf?version=1661312854](#)**Synaptamide Modulates Astroglial Activity in Mild Traumatic Brain Injury (1660-3397/20/8/538)**by  Arina Ponomarenko (<https://sciprofiles.com/profile/2337774>),  Anna Tyrtysynaia (<https://sciprofiles.com/profile/1364422>), Darya Ivashkevich (<https://sciprofiles.com/profile/author/ajVGYVNTalJhcEcvZWPpVfNyQjR4RUI9KzNpVjhYNEE3dEFHT0p2Uk5Eaz0=>), Ekaterina Ermolenko (<https://sciprofiles.com/profile/121705>), Inessa Dyuzhen (<https://sciprofiles.com/profile/author/dY4d05yS3hsbkZWN2hptUy1Md3hJdz09>) and  Igor Manzhulo (<https://sciprofiles.com/profile/94364>)

Mar. Drugs 2022, 20(8), 538; <https://doi.org/10.3390/md20080538> (<https://doi.org/10.3390/md20080538>) - 21 Aug 2022








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Abstract At present, the study of the neurotropic activity of polyunsaturated fatty acid ethanolamides (N-acylethanolamines) is becoming increasingly important. N-docosahexaenylethanolamine (synaptamide, DHEA) is a highly active metabolite of docosahexaenoic acid (DHA) with neuroprotective, synaptogenic, neurotogenic, and anti-inflammatory properties in the nervous system. Synaptamide tested [...] [Read more](#). (This article belongs to the Special Issue **Marine Drugs Research in Russia** ([Journal/marinedrugs/special_issues/MNP_Russia](#)))

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  [./1660-3397/20/8/537/pdf?version=1661316875](#) **Halo- and Thiocarbazomycins from Coral- and Coral Reef Sands-Derived *Actinomycetes* (1660-3397/20/8/537)**by  Qiaoling Wu (<https://sciprofiles.com/profile/author/Y0hUVXhJUEXiekR6QUthTjZ2XY2V3JfA0w0Y2NRUmsrY3dQcWRkRVNSWT0=>), Hongjie Zhu (<https://sciprofiles.com/profile/author/bStMM3RhQzN0N2FGRWFBTTVz9r0ExsVGPwvXpUa1VHVnpjWmsyRnluc20=>), Changli Sun (<https://sciprofiles.com/profile/843081>) Le Zhou (<https://sciprofiles.com/profile/author/WFNEak9IzmM5cIBVZGJKVY9MNDgvN0hkk4zOUF4OH1bnVtC3phRRLbz0=>), Huimin Wang (<https://sciprofiles.com/profile/author/b0RNSItDvGRNz0T1R1b1Q2Q01oTmowcFJrSVZTKzJyN0iIT2s4cWVYOD0=>), Songbiao Shi (<https://sciprofiles.com/profile/author/RmNmN2hOS1NWaHBzT1hzbkNVU2Yak9qaWi2NmJVSU1aZG1wczFodM1RVT0=>), Xinpeng Tian (<https://sciprofiles.com/profile/2366278>) and  Jianhua Ju (<https://sciprofiles.com/profile/101005>)

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






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Abstract Four actinomycete strains isolated from the coral *Acropora auctera* and coral sand samples from the South China Sea, were found to produce a series of halogenated compounds bearing similar ultraviolet absorption based on the analysis of HPLC and LC-MS. The production titers of [...] [Read more](#). (This article belongs to the Special Issue **Bioactive Compounds from Marine Streptomyces 2.0** ([Journal/marinedrugs/special_issues/marine_Streptomyces_2nd_Edition](#)))

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Open Access Review

  [./1660-3397/20/8/536/pdf?version=1661074112](#)**Progress in Research of Chitosan Chemical Modification Technologies and Their Applications (1660-3397/20/8/536)**by  Qizhou Chen (<https://sciprofiles.com/profile/author/d3hwZEdeG5DaURVS3QweD.EdE15SmJnakFqdURz525hUzhBYWpyaXVQbz0=>), Yi Qi (<https://sciprofiles.com/profile/2545623>), Yuwei Jiang (<https://sciprofiles.com/profile/author/MXF3anUxS3lxay9zbG9QM1ByNncrQ09ITWZTM1ZZQzdGQjBST2dsZm5iyz0=>), Weijian Quan (<https://sciprofiles.com/profile/518551>),  Hui Luo (<https://sciprofiles.com/profile/657374>), Kefeng Wu (<https://sciprofiles.com/profile/author/RE1YM3JOSVZYnEzcEZHSGJmaGFHYBFMTVjGw0n0UJ2Zks2YUdyaUTXMD0=>), Sidong Li (<https://sciprofiles.com/profile/author/Lz1QeEFXWmZDFZfSell1azYQXFYmRlVn0QURz525hUzhBYWpyaXVQbz0=>) and Qianqian Quyang (<https://sciprofiles.com/profile/2342263>)

Mar. Drugs 2022, 20(8), 536; <https://doi.org/10.3390/md20080536> (<https://doi.org/10.3390/md20080536>) - 21 Aug 2022

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Abstract Chitosan, which is derived from chitin, is the only known natural alkaline cationic polymer. Chitosan is a biological material that can significantly improve the living standard of the country. It has excellent properties such as good biodegradability, biocompatibility, and cell affinity, and has [...] [Read more](#).

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Unusual Secondary Metabolites from the Mangrove Ecosystems: Structures, Bioactivities, Chemical, and Bio-Syntheses (/1660-3397/20/8/535)

by  Meng-Jun Wu (<https://sciprofiles.com/profile/MVh5N2lpSHYrMINIU2tveVdaTFpQYmExQ2craFVQcKREWXRMnNITWFLTT0=>),

 Baofu Xu (<https://sciprofiles.com/profile/2354678>) and  Yue-Wei Guo (<https://sciprofiles.com/profile/322007>)

Mar. Drugs 2022, 20(8), 535; <https://doi.org/10.3390/md20080535> (<https://doi.org/10.3390/md20080535>) - 20 Aug 2022

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Abstract Mangrove ecosystems are widely distributed in the intertidal zone of tropical and subtropical estuaries or coasts, containing abundant biological communities, for example, mangrove plants and diverse groups of microorganisms, featuring various bioactive secondary metabolites. We surveyed the literature from 2010 to 2022, resulting [...] [Read more.](#)

(This article belongs to the Special Issue [Bio-Active Products from Mangrove Ecosystems](#) (/journal/marinedrugs/special_issues/mangrove_ecosystems))

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Carraegenophyte *Kappaphycus malesianus* Inhibits Microglia-Mediated Neuroinflammation via Suppression of AKT/NF- κ B and ERK Signaling Pathways (1660-3397/20/8/534)

by Nicole Jean-Yean Lai (https://sciprofiles.com/profile/author/OE1WM1A3SGMrdmdL0xxTnNRQk1rbU9ObWZVWHY5aVdvV97MHJvWDMxZz0=), Ee-Ling Ngu (https://sciprofiles.com/profile/author/YkV4S9i2K1g5K25zY2tQOVRwY3Fyb1F1Qk5mV9MbjJUN21Cb2NjMHGyST0=), Jun-Rui Pang (https://sciprofiles.com/profile/author/eFk2RjV1RE45U3i1TUxjXNIRmR0eWZaeE4ybJ1LzFQNR0RSU2eDVCuz0=), Kah-Hui Wong (https://sciprofiles.com/profile/830874), Chrismawan Ardianto (https://sciprofiles.com/profile/2036514), Long Chiau Ming (https://sciprofiles.com/profile/173167), Siew-Huah Lim (https://sciprofiles.com/profile/author/RHBqbG5Yem1YwkdNM3V0MzBnRmtRaiswTUpaTUhRY0d6dJzC2RZRjNOVT0=), Shweta Gangasa Walvekar (https://sciprofiles.com/profile/author/Wk85QndrZdFWGE3Z05ZMFNYkFVWHZU28waWd2SIZhdVpJcEpNYXZOST0=), Ayaz Anwar (https://sciprofiles.com/profile/808761) and Yoon-Yen Yow (https://sciprofiles.com/profile/491545) Mar. Drugs 2022, 20(8), 534; https://doi.org/10.3390/md20080534 (https://doi.org/10.3390/md20080534) - 20 Aug 2022 Cited by 4 (1660-3397/20/8/534#metrics) | Viewed by 1203

Abstract Neuroinflammation is an inflammatory response in any part of the central nervous system triggered by the activation of microglia and astrocytes to produce proinflammatory cytokines in the brain. However, overproduction of proinflammatory cytokines further contributes to the development of neurodegenerative disorders. Red seaweed, [...] **Read more.** (This article belongs to the Special Issue Novel Applications and Technologies for the Industrial Exploitation of Algal Derived Marine Bioactives as Nutraceuticals or Pharmaceutical 2.0. (Journal/marinedrugs/special_issues/NutraceuticalsPharmaceuticals2))

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Structural and Biochemical Analysis Reveals Catalytic Mechanism of Fucoidan Lyase from *Flavobacterium* sp. SA-0082 (1660-3397/20/8/533)

by Juanjuan Wang (https://sciprofiles.com/profile/2366661), Zebin Liu (https://sciprofiles.com/profile/author/TTBSZIRQYTFaRjVsV2FjKy9YVWNOQT09), Xiaowei Pan (https://sciprofiles.com/profile/2281917), Ning Wang (https://sciprofiles.com/profile/2533993), Legong Li (https://sciprofiles.com/profile/author/eUZDNW00WGpZRUk0SUFWZT45bzBmTKu1RkpoTHpWNXA2bmlLeGNmZ3B0MD0=), Yuguang Du (https://sciprofiles.com/profile/346602), Jianjun Li (https://sciprofiles.com/profile/735531) and Mei Li (https://sciprofiles.com/profile/2107187) Mar. Drugs 2022, 20(8), 533; https://doi.org/10.3390/md20080533 (https://doi.org/10.3390/md20080533) - 20 Aug 2022 Viewed by 1036

Abstract Fucoidans represent a type of polyanionic fucose-containing sulfated polysaccharides (FCSPs) that are cleaved by fucoidan-degrading enzymes, producing low-molecular-weight fucoidans with multiple biological activities suitable for pharmacological use. Most of the reported fucoidan-degrading enzymes are glycoside hydrolases, which have been well studied for their [...] **Read more.** (This article belongs to the Special Issue Advances in Oligosaccharides and Polysaccharide Modifications in Marine Bioresources. (Journal/marinedrugs/special_issues/Advances_Oligosaccharides_Polysaccharide_Modifications_Marine_Bioresources))

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Discovery of Ircinianin Lactones B and C—Two New Cyclic Sesterterpenes from the Marine Sponge *Ircinia wistarii* (1660-3397/20/8/532)

by Thomas Majer (https://sciprofiles.com/profile/2276689), Keshab Bhattarai (https://sciprofiles.com/profile/author/Y2x2MG9rZ3BYehfZ0luVVRnRtKuVWE2REJ5Zj09ORnRiM0VhZWJPRGFZ0JmTmU1L2VlOxhEOTg3UjVpd1U0Zg==), Jan Straetener (https://sciprofiles.com/profile/author/VDUyd1MysHkydHRucEhpOFhQWHJmBdZ5L1Q2LzFoawWivEdXMXzRfGxZz0=), Justus Pohlmann (https://sciprofiles.com/profile/author/aZJHTWhzQ3Z1VGxJXRFaGxuNzSeXRHT2IXVjRiYTM4M3BhG1HamVHTENRSjFkuKFRUDnN3NtdUU0RkZUNg==), Patrick Cahill (https://sciprofiles.com/profile/2281642), Markus O. Zimmermann (https://sciprofiles.com/profile/author/SgZKWWVwVVRnK004MUK2dmLZTHdWOWPNDhMVjRDNxh6NkRlWnY2dWhmCz0=), Marc P. Hübner (https://sciprofiles.com/profile/author/WHIPvmRqTXg3QmRNdcTmZVnZpZHI3TU2aEiBNJJBWkJ2ZHppSVBpdGRaaZ0=), Marcel Kaiser (https://sciprofiles.com/profile/2377512), Johan Svenson (https://sciprofiles.com/profile/1114375), Michael Schindler (https://sciprofiles.com/profile/161302), Heike Brötze-Oesterheld (https://sciprofiles.com/profile/1952984), Frank M. Boeckler (https://sciprofiles.com/profile/author/VIFXeitDb2w0WIFhdHAYMWIsSmMyWWHhcS9PdJocVVOeGN6RHFieI82Zz0=) and Harald Gross (https://sciprofiles.com/profile/37822) Mar. Drugs 2022, 20(8), 532; https://doi.org/10.3390/md20080532 (https://doi.org/10.3390/md20080532) - 19 Aug 2022 Cited by 2 (1660-3397/20/8/532#metrics) | Viewed by 1196

Abstract Two new ircinianin-type sesterterpenoids, ircinianin lactone B and ircinianin lactone C (7 and 8), together with five known entities from the ircinianin compound family (1, 3–6) were isolated from the marine sponge *Ircinia wistarii*. Ircinianin [...] **Read more.** (This article belongs to the Section Structural Studies on Marine Natural Products. (Journal/marinedrugs/sections/marine_natural_product_chemistry))

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Conotoxin Patenting Trends in Academia and Industry (1660-3397/20/8/531)

by Noemi Sanchez-Campos (https://sciprofiles.com/profile/author/RfC2WFflemhJVHAXSHc2REXxzZxpRWxDOHhZ1crWihVb083eWkxdFRcdz0=), Johanna Bernaldez-Sarabia (https://sciprofiles.com/profile/2816022) and Alexei F. Licea-Navarro (https://sciprofiles.com/profile/31055) Mar. Drugs 2022, 20(8), 531; https://doi.org/10.3390/md20080531 (https://doi.org/10.3390/md20080531) - 19 Aug 2022 Viewed by 1325

Abstract Sea snails of the genus *Conus* produce toxins that have been the subjects of numerous studies, projects, publications, and patents over the years. Since *Conus* toxins were discovered in the 1960s, their biological activity has been thought to have high pharmaceutical potential that [...] **Read more.** (This article belongs to the Special Issue Conotoxins 2022. (Journal/marinedrugs/special_issues/conotoxins_2022))

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Application of Green Chiral Chromatography in Enantioseparation of Newly Synthesized Racemic Marinoepoxides (1660-3397/20/8/530)

by [Andela Buljan](https://sciprofiles.com/profile/2357190) (<https://sciprofiles.com/profile/2357190>) and [Marin Roje](https://sciprofiles.com/profile/1653941) (<https://sciprofiles.com/profile/1653941>)

Mar. Drugs 2022, 20(8), 530; <https://doi.org/10.3390/md20080530> (<https://doi.org/10.3390/md20080530>) - 19 Aug 2022


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Abstract Enantioseparation of the newly synthesized series of novel quinoline-2(1H)-one epoxide structures *rac*-6a-c and *rac*-8a-c, named marinoepoxides, is described. Marinoepoxide *rac*-6a, the key intermediate in the total synthesis of natural [...] [Read more](#).

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Aromatic Polyketides from the Deep-Sea Cold-Seep Mussel Associated Endozoic Fungus *Talaromyces minioluteus* CS-138 (1660-3397/20/8/529)

by [Qi Song](https://sciprofiles.com/profile/2395757) (<https://sciprofiles.com/profile/2395757>), [Sui-Qun Yang](https://sciprofiles.com/profile/2391084) (<https://sciprofiles.com/profile/2391084>),

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[Xin Li](https://sciprofiles.com/profile/487164) (<https://sciprofiles.com/profile/487164>) and [Bin-Gui Wang](https://sciprofiles.com/profile/1139935) (<https://sciprofiles.com/profile/1139935>)

Mar. Drugs 2022, 20(8), 529; <https://doi.org/10.3390/md20080529> (<https://doi.org/10.3390/md20080529>) - 18 Aug 2022

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Abstract Five new aromatic polyketides, including a unique benzofuran derivative, talarominine A (1), and four chromone analogs talamins A–D (2–5), along with one known related metabolite, 5-hydroxy-7-methoxy-2,3-dimethylchromone (6), were isolated and identified from the *Talaromyces minioluteus* [...] [Read more](#).

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Marine Natural Products in Clinical Use (1660-3397/20/8/528)

by [Neshatul Haque](https://sciprofiles.com/profile/2326850) (<https://sciprofiles.com/profile/2326850>), [Sana Parveen](https://sciprofiles.com/profile/2259326) (<https://sciprofiles.com/profile/2259326>),

[Tingting Tang](https://sciprofiles.com/profile/2387914) (<https://sciprofiles.com/profile/2387914>),

[Jiaen Wei](https://sciprofiles.com/profile/author/eHVnc2gwRnVQYzFZSM9CVDEZT25RS0ZIYOVMUGRjFdFJOW53eDISSFZYVT0=) (<https://sciprofiles.com/profile/author/eHVnc2gwRnVQYzFZSM9CVDEZT25RS0ZIYOVMUGRjFdFJOW53eDISSFZYVT0=>) and

[Zunnan Huang](https://sciprofiles.com/profile/717240) (<https://sciprofiles.com/profile/717240>)

Mar. Drugs 2022, 20(8), 528; <https://doi.org/10.3390/md20080528> (<https://doi.org/10.3390/md20080528>) - 18 Aug 2022

Cited by 9 ([/1660-3397/20/8/528#metrics](https://pub.mdpi-res.com/marinedrugs/marinedrugs-20-00528/article_deploy/html/images/marinedrugs-20-00528-eg-550.jpg?1665654835)) | Viewed by 2596 | [Correction](#) ([/1660-3397/20/10/636](https://pub.mdpi-res.com/marinedrugs/marinedrugs-20-00528/article_deploy/html/images/marinedrugs-20-00528-eg-550.jpg?1665654835))

Abstract Marine natural products are potent and promising sources of drugs among other natural products of plant, animal, and microbial origin. To date, 20 drugs from marine sources are in clinical use. Most approved marine compounds are antineoplastic, but some are also used for [...] [Read more](#).

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Marine-Bioinspired Nanoparticles as Potential Drugs for Multiple Biological Roles (1660-3397/20/8/527)

by [Geum-Jae Jeong](https://sciprofiles.com/profile/2216149) (<https://sciprofiles.com/profile/2216149>), [Sohail Khan](https://sciprofiles.com/profile/2382296) (<https://sciprofiles.com/profile/2382296>),

[Nazia Tabassum](https://sciprofiles.com/profile/author/UTdZemVQRzjZHpYcFNKTKlCaY0bzYVY14eEYTWVmjHqQGordmo0bz0=) (<https://sciprofiles.com/profile/author/UTdZemVQRzjZHpYcFNKTKlCaY0bzYVY14eEYTWVmjHqQGordmo0bz0=>),

[Fazlurrahman Khan](https://sciprofiles.com/profile/1079286) (<https://sciprofiles.com/profile/1079286>) and [Young-Mog Kim](https://sciprofiles.com/profile/245226) (<https://sciprofiles.com/profile/245226>)

Mar. Drugs 2022, 20(8), 527; <https://doi.org/10.3390/md20080527> (<https://doi.org/10.3390/md20080527>) - 18 Aug 2022

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Abstract The increased interest in nanomedicine and its applicability for a wide range of biological functions demands the search for raw materials to create nanomaterials. Recent trends have focused on the use of green chemistry to synthesize metal and metal-oxide nanoparticles. Bioactive chemicals have [...] [Read more](#). (This article belongs to the Special Issue **Marine-Derived Bioactive Nanoparticles and Their Biological Application** ([/journal/marinedrugs/special_issues/marine_derived_](#)))

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Immunosuppressive Cytochalasins from the Mangrove Endophytic Fungus *Phomopsis asparagi* DHS-48 (1660-3397/20/8/526)

by [Zhao Feng](https://sciprofiles.com/profile/author/bHgySzniazVOV0t2K1JPWU1uVedsbHFNUVneDFyZ0E3TGpLa2JOUm5zMD0=) (<https://sciprofiles.com/profile/author/bHgySzniazVOV0t2K1JPWU1uVedsbHFNUVneDFyZ0E3TGpLa2JOUm5zMD0=>), [Xuexia Zhang](https://sciprofiles.com/profile/author/UxixR0t6RUnyM0FyRUILV1lWdm43K2VGZWWVGRiWks3SKdrZkU5Y3IPWt0=) (<https://sciprofiles.com/profile/author/UxixR0t6RUnyM0FyRUILV1lWdm43K2VGZWWVGRiWks3SKdrZkU5Y3IPWt0=>), [Jingwan Wu](https://sciprofiles.com/profile/author/cWFPeXdlbWRISXhYS2VmQtdZ2Yo0VG1y2p4N0x1T0FC2tmSEFSam0xaz0=) (<https://sciprofiles.com/profile/author/cWFPeXdlbWRISXhYS2VmQtdZ2Yo0VG1y2p4N0x1T0FC2tmSEFSam0xaz0=>), [Chengwen Wei](https://sciprofiles.com/profile/1247507) (<https://sciprofiles.com/profile/1247507>), [Ting Feng](https://sciprofiles.com/profile/author/bDU5akF4WjRa0V0K1UyZXR3VXQzQk6ZnortWw1aE1GWFhSdfzFIQD0=) (<https://sciprofiles.com/profile/author/bDU5akF4WjRa0V0K1UyZXR3VXQzQk6ZnortWw1aE1GWFhSdfzFIQD0=>), [Dongdong Zhou](https://sciprofiles.com/profile/author/MUE4UnU2bE5SYVdhTkx6VzY2m1VYkQ3Z3ZJWJD6TEILbkZZS3ovZ0VkmD0=) (<https://sciprofiles.com/profile/author/MUE4UnU2bE5SYVdhTkx6VzY2m1VYkQ3Z3ZJWJD6TEILbkZZS3ovZ0VkmD0=>), [Zhenchang Wen](https://sciprofiles.com/profile/author/TXgyY2UxdUhnSIQwRGISc1o2RnJHtklaUjBITGhLUDZOVTh5ZTV6QUpBz0=) (<https://sciprofiles.com/profile/author/TXgyY2UxdUhnSIQwRGISc1o2RnJHtklaUjBITGhLUDZOVTh5ZTV6QUpBz0=>) and [Jing Xu](https://sciprofiles.com/profile/2097512) (<https://sciprofiles.com/profile/2097512>)

Mar. Drugs 2022, 20(8), 526; <https://doi.org/10.3390/md20080526> - 18 Aug 2022

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Abstract Three new cytochalasins, phomoparagins A-C (1–3), along with five known analogs (4–8), were isolated from *Phomopsis asparagi* DHS-48, a mangrove-derived endophytic fungus. Their structures, including their absolute configurations, were elucidated using a combination of detailed [...] [Read more](#). (This article belongs to the Special Issue **Bio-Active Products from Mangrove Ecosystems** ([/journal/marinedrugs/special_issues/mangrove_ecosystems_](#)))

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Utilizing Fish Skin of Ikan Belida (*Notopterus lopus*) as a Source of Collagen: Production and Rheology Properties (1660-3397/20/8/525)

by [Tzen T. Heng](https://sciprofiles.com/profile/author/bVM1WnJLRVkeZvUVDNBz2Yy9PUJR5YWYwbHhJdmJOYmizOHNmUnpXbz0=) (<https://sciprofiles.com/profile/author/bVM1WnJLRVkeZvUVDNBz2Yy9PUJR5YWYwbHhJdmJOYmizOHNmUnpXbz0=>), [Jing Y. Tey](https://sciprofiles.com/profile/2384617) (<https://sciprofiles.com/profile/2384617>), [Kean S. Soon](https://sciprofiles.com/profile/author/b1U0ckZjNmZNT1VZM3IKL01Tc1K1NkZJIBLWdny1dHREtkRGdXSFZ4bz0=) (<https://sciprofiles.com/profile/author/b1U0ckZjNmZNT1VZM3IKL01Tc1K1NkZJIBLWdny1dHREtkRGdXSFZ4bz0=>) and [Kwan K. Woo](https://sciprofiles.com/profile/2206566) (<https://sciprofiles.com/profile/2206566>)

Mar. Drugs 2022, 20(8), 525; <https://doi.org/10.3390/md20080525> - 18 Aug 2022

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Abstract Collagen hydrogels have been extensively applied in biomedical applications. However, their mechanical properties are insufficient for such applications. Our previous study showed improved mechanical properties when collagen was blended with alginate. The current study aims to analyze the physico-chemical properties of collagen-alginate (CA) [...] [Read more](#). (This article belongs to the Section **Biomaterials of Marine Origin** ([/journal/marinedrugs/sections/biomaterials_marine_origin](#)))

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Archaea Carotenoids: Natural Pigments with Unexplored Innovative Potential (1660-3397/20/8/524)

by [Antoine Grivard](https://sciprofiles.com/profile/2383525) (<https://sciprofiles.com/profile/2383525>), [Isabelle Goubet](https://sciprofiles.com/profile/author/K3VoWjZnSDRzVmNXaU81R0pUaUtzMHZVRGRFafU2VVoSHJzRkR0SWZCRT0=) (<https://sciprofiles.com/profile/author/K3VoWjZnSDRzVmNXaU81R0pUaUtzMHZVRGRFafU2VVoSHJzRkR0SWZCRT0=>), [Luiz Miranda de Souza Duarte Filho](https://sciprofiles.com/profile/author/ciItS1EzY1zVzWxSADbQkNkWhZplaZROUibVnpRYXk2bk9QeDRib0NYaTBRc2Nzcc1SDErdrnXdxXpIZTNuOGwXMHdWM3F2V) (<https://sciprofiles.com/profile/author/ciItS1EzY1zVzWxSADbQkNkWhZplaZROUibVnpRYXk2bk9QeDRib0NYaTBRc2Nzcc1SDErdrnXdxXpIZTNuOGwXMHdWM3F2V>), [Valérie Thiéry](https://sciprofiles.com/profile/445459) (<https://sciprofiles.com/profile/445459>), [Sylvie Chevalier](https://sciprofiles.com/profile/399212) (<https://sciprofiles.com/profile/399212>), [Raimundo Gonçalves de Oliveira-Junior](https://sciprofiles.com/profile/author/RUV2aURIMIVwR3JET3ZDWV6pdkMVSZVpWEEwaUdtE5HMVllbnJpR2VoTUDhd32aR0hSbm0zOWIxbTrWvVdWqJlM250) (<https://sciprofiles.com/profile/author/RUV2aURIMIVwR3JET3ZDWV6pdkMVSZVpWEEwaUdtE5HMVllbnJpR2VoTUDhd32aR0hSbm0zOWIxbTrWvVdWqJlM250>), [Nouredine El Aouad](https://sciprofiles.com/profile/1986194) (<https://sciprofiles.com/profile/1986194>), [Jackson Roberto Guedes da Silva Almeida](https://sciprofiles.com/profile/38708) (<https://sciprofiles.com/profile/38708>), [Przemysław Sitarek](https://sciprofiles.com/profile/118738) (<https://sciprofiles.com/profile/118738>), [Lucindo José Quintans-Junior](https://sciprofiles.com/profile/2072367) (<https://sciprofiles.com/profile/2072367>), [Raphaël Grougnel](https://sciprofiles.com/profile/787630) (<https://sciprofiles.com/profile/787630>), [Hélène Agogue](https://sciprofiles.com/profile/author/VkM0MGmVhMh3Mm12TDAzUFUblVLmWnmc2xQWm9BSXZmajRsWTNUmMw1dz0=) (<https://sciprofiles.com/profile/author/VkM0MGmVhMh3Mm12TDAzUFUblVLmWnmc2xQWm9BSXZmajRsWTNUmMw1dz0=>) and [Laurent Picot](https://sciprofiles.com/profile/533422) (<https://sciprofiles.com/profile/533422>)

Mar. Drugs 2022, 20(8), 524; <https://doi.org/10.3390/md20080524> - 17 Aug 2022

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Abstract For more than 40 years, marine microorganisms have raised great interest because of their major ecological function and their numerous applications for biotechnology and pharmacology. Particularly, Archaea represent a resource of great potential for the identification of new metabolites because of their adaptation [...] [Read more](#). (This article belongs to the Special Issue **Marine Pigments** ([/journal/marinedrugs/special_issues/marine_pigments_](#)))

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Identification of PKS-NRPS Hybrid Metabolites in Marine-Derived *Penicillium oxalicum* (1660-3397/20/8/523)

by [Hongcheng Li](https://sciprofiles.com/profile/2267566) (<https://sciprofiles.com/profile/2267566>), [Wei Zhang](https://sciprofiles.com/profile/author/MJXUzqxMJrNE1LeIVQeGI0U01Lk1WbSt4MmZUZVrand5UJlJNZDdBbz0=) (<https://sciprofiles.com/profile/author/MJXUzqxMJrNE1LeIVQeGI0U01Lk1WbSt4MmZUZVrand5UJlJNZDdBbz0=>), [Xuan Zhang](https://sciprofiles.com/profile/2297875) (<https://sciprofiles.com/profile/2297875>), [Shen Tang](https://sciprofiles.com/profile/author/RXITZmJmU2ZOTVBHQE5cIVYWFhWlQZdWF1ZWTISZYMzhIYzVnSWUjUT0=) (<https://sciprofiles.com/profile/author/RXITZmJmU2ZOTVBHQE5cIVYWFhWlQZdWF1ZWTISZYMzhIYzVnSWUjUT0=>) and [Ping Men](https://sciprofiles.com/profile/author/LOJEK3NEczBNUJbmdnJhaDRNS0FkUnY1WDFJU2pSOHVhL285QnRLNzRscz0=) (<https://sciprofiles.com/profile/author/LOJEK3NEczBNUJbmdnJhaDRNS0FkUnY1WDFJU2pSOHVhL285QnRLNzRscz0=>)

Mengyi Xiong (https://sciprofiles.com/profile/author/MGp3dWZBa01yT1JDMJFVXEWZWiQTIu3URU0EvUDBPWnR3MKFFR0FCQ0=),

Zhihui Li (https://sciprofiles.com/profile/478073), Yongyu Zhang (https://sciprofiles.com/profile/783272),

Xuenian Huang (https://sciprofiles.com/profile/930318) and Xuefeng Lu (https://sciprofiles.com/profile/927323)

Mar. Drugs 2022, 20(8), 523; https://doi.org/10.3390/md20080523 (https://doi.org/10.3390/md20080523) - 16 Aug 2022

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Abstract Filamentous fungi are abundant resources of bioactive natural products. Here, 151 marine-derived fungi were collected from the north Yellow Sea and identified by an internal transcribed spacer (ITS) sequence. The crude extracts of all strains were evaluated for their antimicrobial activities and analyzed [...] [Read more.](#)

(This article belongs to the Special Issue **Bioactive Substances from Marine Sediments, Invertebrates and Algae Derived Fungi** ([/journal/marinedrugs/special_issues/Bioactive_Substances_Marine_Sediments_Invertebrates_Algae_Derived_Fungi](#)))

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Mucoadhesive Marine Polysaccharides (1660-3397/20/8/522)

by Irina M. Yermak (https://sciprofiles.com/profile/319927), Viktoriya N. Davydova (https://sciprofiles.com/profile/505047) and

Aleksandra V. Volod'ko (https://sciprofiles.com/profile/1200310)

Mar. Drugs 2022, 20(8), 522; https://doi.org/10.3390/md20080522 (https://doi.org/10.3390/md20080522) - 15 Aug 2022

Cited by 3 (1660-3397/20/8/522#metrics) | Viewed by 1403

Abstract Mucoadhesive polymers are of growing interest in the field of drug delivery due to their ability to interact with the body's mucosa and increase the effectiveness of the drug. Excellent mucoadhesive performance is typically observed for polymers possessing charged groups or non-ionic functional [...] [Read more.](#)

(This article belongs to the Special Issue **Marine Carbohydrate-Based Compounds with Medicinal Properties II** ([/journal/marinedrugs/special_issues/Carbohydrate_Medicinal_2](#)))

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Antioxidant Potential of Sea Cucumbers and Their Beneficial Effects on Human Health (1660-3397/20/8/521)

by Abul Hossain (https://sciprofiles.com/profile/295087), Deepika Dave (https://sciprofiles.com/profile/1075320) and

Fereidoon Shahidi (https://sciprofiles.com/profile/213246)

Mar. Drugs 2022, 20(8), 521; https://doi.org/10.3390/md20080521 (https://doi.org/10.3390/md20080521) - 15 Aug 2022

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Abstract Sea cucumbers are considered a luxury food item and used locally in traditional medication due to their impressive nutritional profile and curative effects. Sea cucumbers contain a wide range of bioactive compounds, namely phenolics, polysaccharides, proteins (collagen and peptides), carotenoids, and saponins, demonstrating [...] [Read more.](#)

(This article belongs to the Special Issue **Bioactive Compounds from Sea Cucumbers** ([/journal/marinedrugs/special_issues/Z61A1G5J8S](#)))

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The Discovery, Enzymatic Characterization and Functional Analysis of a Newly Isolated Chitinase from Marine-Derived Fungus *Aspergillus fumigatus* df347 (1660-3397/20/8/520)

by Ya-Li Wu (https://sciprofiles.com/profile/2384621),

Sheng Wang (https://sciprofiles.com/profile/author/T3IzQXh4MkhyQk5NWmIOZzIqE2DZaCtFU1Vtdmh4bIpsSRHVEZ2FIQXpOMD0=),

Deng-Feng Yang (https://sciprofiles.com/profile/57513), Li-Yan Yang (https://sciprofiles.com/profile/1779916),

Qing-Yan Wang (https://sciprofiles.com/profile/1211413),

Jun Yu (https://sciprofiles.com/profile/author/RnRETDNvE9zemE3Ymp6a05ZK1dYsI80Vgpbm5BnNBJRGIOVtC0UWpU0=),

Nan Li (https://sciprofiles.com/profile/1094449) and Li-Xia Pan (https://sciprofiles.com/profile/893764)

Mar. Drugs 2022, 20(8), 520; https://doi.org/10.3390/md20080520 (https://doi.org/10.3390/md20080520) - 15 Aug 2022

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Abstract In order to discover a broad-specificity and high stability chitinase, a marine fungus, *Aspergillus fumigatus* df347, was identified in the sediments of mangrove wetlands in Qin Zhou Bay, China. The chitinase gene (*AfChi28*) from *A. fumigatus* df347 was cloned and heterologously expressed [...] [Read more.](#)

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Antibacterial and Anticancer Activities of Pleurocidin-Amide, a Potent Marine Antimicrobial Peptide Derived from Winter Flounder, *Pleuronectes americanus* (1660-3397/20/8/519)

by Hui-Chen Hsu (https://sciprofiles.com/profile/2498209),

Ming-Hsin Chen (https://sciprofiles.com/profile/author/LZRWU0w1eVp0RUxGWUhzOHP)SVAvakJsQXNLMmNcBFFsL2ZMMVFIZjUyZ0=),

Ming-Lung Yeh (https://sciprofiles.com/profile/author/aFNXM3ZsRnQ0MV1SWJsRnR0WIBUvHUQ3BYZUIBcG9LemRKYWdNFB4U0=) and

Wei-Jung Chen (https://sciprofiles.com/profile/854941)

Mar. Drugs 2022, 20(8), 519; https://doi.org/10.3390/md20080519 (https://doi.org/10.3390/md20080519) - 14 Aug 2022

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Abstract The extensive use of conventional antibiotics has led to the growing emergence of many resistant strains of pathogenic bacteria. Evidence suggests that cationic antimicrobial peptides (AMPs) have the greatest potential to serve as traditional antibiotic substitutes. Recent studies have also reported that certain [...] [Read more.](#)

(This article belongs to the Special Issue **Marine Bioactive Peptides: Structure, Function, and Therapeutic Potential - III** ([/journal/marinedrugs/special_issues/Marine_Bioactive_Peptides_III](#)))

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Mixotrophic Cultivation Optimization of Microalga *Euglena pisciformis* AEW501 for Paramylon Production (1660-3397/20/8/518)

by Panpan Fan (https://sciprofiles.com/profile/author/YVE2N3RBL1JDQIRpcEtQZVdJcGtKNTFVbWJvczJYdFfzV09CaXBLTmg5MD0=),

Yanhua Li (https://sciprofiles.com/profile/author/S2JbDfHVERE1GWS9YSkZbUjUjlp2dWxsTHZOHNGTGxYUJUSW1DTZzZz0=),

Rui Deng (https://sciprofiles.com/profile/author/aFU0cmdDVmhVMIFFU01eThyWnhjNmNuWS80cHR6aDcyK2hVzVQS04zVT0=),
Fengzhu Zhu (https://sciprofiles.com/profile/author/R2FGQ2VjLzLkVzNnHmZkY1VKM0FB3GzUmQh0N0J0X0M0K3QwQnlpUT0=),
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Mar. Drugs 2022, 20(8), 518; https://doi.org/10.3390/md20080518 (https://doi.org/10.3390/md20080518) - 14 Aug 2022

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


Abstract *Euglena*, a flagellated unicellular protist, has recently received widespread attention for various high-value metabolites, especially paramylon, which was only found in Euglenophyta. The limited species and low biomass of *Euglena* has impeded paramylon exploitation and utilization. This study established an optimal cultivation [...] [Read more](#). (This article belongs to the Special Issue [Marine Microalgal Functional Foods \(/journal/marinedrugs/special_issues/Microalgal_Functional_Foods \)](#))

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Open Access Article  (1660-3397/20/8/517/pdf?version=1660498509) 

Novel β -Hairpin Peptide from Marine Polychaeta with a High Efficacy against Gram-Negative Pathogens (1660-3397/20/8/517)

by  Victoria N. Safronova (https://sciprofiles.com/profile/2074924),  Iliia A. Bolosov (https://sciprofiles.com/profile/539974),
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 Olga V. Korobova (https://sciprofiles.com/profile/author/TWpmZm51cFJrL05md1FONmVhTkFIMJFrcWpEVW5Y3E5T1hhUuG6RzRBMD0=),
 Eugenia S. Pereskakova (https://sciprofiles.com/profile/2383691),  Alexander I. Borzilov (https://sciprofiles.com/profile/1276536),
 Pavel V. Pantelev (https://sciprofiles.com/profile/519995) and  Tatiana V. Ovchinnikova (https://sciprofiles.com/profile/453048)

Mar. Drugs 2022, 20(8), 517; https://doi.org/10.3390/md20080517 (https://doi.org/10.3390/md20080517) - 13 Aug 2022

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Abstract In recent years, new antibiotics targeting multidrug resistant Gram-negative bacteria have become urgently needed. Therefore, antimicrobial peptides are considered to be a novel perspective class of antibacterial agents. In this study, a panel of novel BRICHOS-related β -hairpin antimicrobial peptides were identified in transcriptomes [...] [Read more](#).



(This article belongs to the Special Issue [Marine Bioactive Peptides: Structure, Function, and Therapeutic Potential - III \(/journal/marinedrugs/special_issues/Marine_Bioactive_Peptides_III \)](#))



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In Vitro Antioxidant and Antigliing Activities of Collagen and Its Hydrolysate from Mackerel Scad Skin (*Decapterus macarellus*) (1660-3397/20/8/516)

by  Elisa Herawati (https://sciprofiles.com/profile/2355573),
 Yochidamal Akhsaniaqim (https://sciprofiles.com/profile/author/NXFwdGpuVkr0TWNrcVd5tkhMaWJjcmZpaStBMndJZGFpTnrWOUFYcUvGQT0=),
 Pipin Agnesia (https://sciprofiles.com/profile/author/MThxUFIZZ0vAS3NoUWE0VkJSeFpFwMjlc2NoeTFCN2c4SDhEnzV6SUZucz0=),
 Shanti Listyawati (https://sciprofiles.com/profile/author/WkpKaW5UZnNqdzNPOU5sQ2vSL2FmZlEK1Zub2QyeWUWVhk3T1Zv241WGZ0UGJ3RkF4VUheKXlCjDl3ZHRXWg=)

 Artini Pangastuti (https://sciprofiles.com/profile/author/TGY4d1o2dX6VvJxSUZJMvdlb0s3bkxzUJFINDRpbUQxVeszMmdqNUFIdz0=) and
 Adi Ratriyanto (https://sciprofiles.com/profile/1884658)

Mar. Drugs 2022, 20(8), 516; https://doi.org/10.3390/md20080516 (https://doi.org/10.3390/md20080516) - 13 Aug 2022

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Abstract The skin of mackerel scad fish (*Decapterus macarellus*) is a new source for pepsin-soluble collagen and its hydrolysate, both of which have never been explored. This study aims to characterize and determine the in vitro antioxidant, antiglycation, and antityrosinase activity of [...] [Read more](#). (This article belongs to the Section [Biomaterials of Marine Origin \(/journal/marinedrugs/sections/biomaterials_marine_origin \)](#))

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Novel Labdane Diterpenes-Based Synthetic Derivatives: Identification of a Bifunctional Vasodilator That Inhibits Cav1.2 and Stimulates Kc_v1.1 Channels (1660-3397/20/8/515)

by  Gabriele Carullo (https://sciprofiles.com/profile/465289),  Simona Saponara (https://sciprofiles.com/profile/984943),
 Amer Ahmed (https://sciprofiles.com/profile/229188),
 Beatrice Gorelli (https://sciprofiles.com/profile/author/N283Q2hoUJGYNRR0FVSGZ0AwPpTRHdReTdjC3BYWU4bzFMWEXLNUdKbz0=),
 Sarah Mazzotta (https://sciprofiles.com/profile/1290052),  Alfonso Trezza (https://sciprofiles.com/profile/1478088),
 Beatrice Gianibbi (https://sciprofiles.com/profile/1737524),  Giuseppe Campiani (https://sciprofiles.com/profile/1962446),
 Fabio Fusi (https://sciprofiles.com/profile/84279) and  Francesca Aiello (https://sciprofiles.com/profile/262799)

Mar. Drugs 2022, 20(8), 515; https://doi.org/10.3390/md20080515 (https://doi.org/10.3390/md20080515) - 13 Aug 2022

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Abstract Sesquiterpenes such as leucodin and the labdane-type diterpene manool are natural compounds endowed with remarkably in vitro vasorelaxant and in vivo hypotensive activities. Given their structural similarity with the sesquiterpene lactone (+)-scarellaolide, this molecule was selected as a scaffold to develop novel vasoactive [...] [Read more](#). (This article belongs to the Special Issue [Marine-Derived Compounds Applied in Cardiovascular Disease \(/journal/marinedrugs/special_issues/marinedrugs_cardiovascular \)](#))

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Open Access Article  (1660-3397/20/8/514/pdf?version=1660704986) 

Hemicetalmeroterpenoids A–C and Astelloide Q with Antimicrobial Activity from the Marine-Derived Fungus *Penicillium* sp. N-5 (1660-3397/20/8/514)

by [Tao Chen](https://sciprofiles.com/profile/2350895) (https://sciprofiles.com/profile/2350895), [Wencong Yang](https://sciprofiles.com/profile/1700876) (https://sciprofiles.com/profile/1700876), [Taobo Li](https://sciprofiles.com/profile/author/VDZKQIMrMfPyZnXYVn0MfVucGFCMDZZTFJYWhlNjU0pwcjJTWUpBaz0=) (https://sciprofiles.com/profile/author/VDZKQIMrMfPyZnXYVn0MfVucGFCMDZZTFJYWhlNjU0pwcjJTWUpBaz0=), [Yihao Yin](https://sciprofiles.com/profile/author/MzMs0p0BWU05cFHYc1jTvc3ckp2UWd2eEpMREEWZ24y5DkrS9kSUZMc0=) (https://sciprofiles.com/profile/author/MzMs0p0BWU05cFHYc1jTvc3ckp2UWd2eEpMREEWZ24y5DkrS9kSUZMc0=), [Yufeng Liu](https://sciprofiles.com/profile/author/dnkYUF5SEdlbCB85Ky8xTXZnWjdxGlyaxF4K2pkY1VneEJoSEtqeVBZTT0=) (https://sciprofiles.com/profile/author/dnkYUF5SEdlbCB85Ky8xTXZnWjdxGlyaxF4K2pkY1VneEJoSEtqeVBZTT0=), [Bo Wang](https://sciprofiles.com/profile/1694656) (https://sciprofiles.com/profile/1694656) and [Zhiqiang She](https://sciprofiles.com/profile/49103) (https://sciprofiles.com/profile/49103)
Mar. Drugs 2022, 20(8), 514; <https://doi.org/10.3390/md20080514> - 13 Aug 2022
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Abstract Four new compounds including three andrastin-type meroterpenoids hemicetalmeroterpenoids A–C (1–3), and a dimeric sesquiterpenoid astelloide Q (15), together with eleven known compounds (4–14) were isolated from the cultures of the marine-derived fungus *Penicillium* [..] [Read more](#).
(This article belongs to the Special Issue **Diversity of Marine Fungi as a Source of Bioactive Natural Products** ([/journal/marinedrugs/special_issues/6B6Z19CQ23](https://journal/marinedrugs/special_issues/6B6Z19CQ23)))

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Open Access Article [1660-3397/20/8/514/pdf?version=1660313090](https://doi.org/10.3390/md20080514/pdf?version=1660313090)

An Alkaloid from a Highly Invasive Seaweed Increases the Voracity and Reproductive Output of a Model Fish Species (1660-3397/20/8/513)

by [Valentina Schiano](https://sciprofiles.com/profile/author/NnBVTnMrRHJv12K09BcmR0VG5qTXJ1Uk05cHFRVgXsE0Y1RpYwDMUT0=) (https://sciprofiles.com/profile/author/NnBVTnMrRHJv12K09BcmR0VG5qTXJ1Uk05cHFRVgXsE0Y1RpYwDMUT0=), [Adele Cutignano](https://sciprofiles.com/profile/60395) (https://sciprofiles.com/profile/60395), [Daniela Maiello](https://sciprofiles.com/profile/author/bEpV99ENjEsU3l4dzdMVXpkTZdzYVFSkRxFMFSUG5mN0VxUZZU3Z0MD0=) (https://sciprofiles.com/profile/author/bEpV99ENjEsU3l4dzdMVXpkTZdzYVFSkRxFMFSUG5mN0VxUZZU3Z0MD0=), [Marianna Carbone](https://sciprofiles.com/profile/18171) (https://sciprofiles.com/profile/18171), [Maria Letizia Ciavatta](https://sciprofiles.com/profile/10149) (https://sciprofiles.com/profile/10149), [Gianluca Polese](https://sciprofiles.com/profile/981569) (https://sciprofiles.com/profile/981569), [Federica Fioretto](https://sciprofiles.com/profile/author/Skt1cC9WbFo2UEt4WkpuDnXoFNOc1hFcnNQSS9nUUY5WEZUIUK1poQT0=) (https://sciprofiles.com/profile/author/Skt1cC9WbFo2UEt4WkpuDnXoFNOc1hFcnNQSS9nUUY5WEZUIUK1poQT0=), [Chiara Attanasio](https://sciprofiles.com/profile/193769) (https://sciprofiles.com/profile/193769), [Antonio Palladino](https://sciprofiles.com/profile/859526) (https://sciprofiles.com/profile/859526), [Serena Felline](https://sciprofiles.com/profile/author/Tj12N0pBQnZEQ3NtSmhYMDRyOGJzcGtWDBYRjJhdTvrRjJtUUVFVYWFwZz0=) (https://sciprofiles.com/profile/author/Tj12N0pBQnZEQ3NtSmhYMDRyOGJzcGtWDBYRjJhdTvrRjJtUUVFVYWFwZz0=), [Antonio Terlizzi](https://sciprofiles.com/profile/author/Q3VnUkhuQ21CYU0zJdA1V1ZUIiRTrngWGN5TzE4VnYvclA3b0pOZ04yST0=) (https://sciprofiles.com/profile/author/Q3VnUkhuQ21CYU0zJdA1V1ZUIiRTrngWGN5TzE4VnYvclA3b0pOZ04yST0=), [Livia D'Angelo](https://sciprofiles.com/profile/225196) (https://sciprofiles.com/profile/225196), [Paolo de Girolamo](https://sciprofiles.com/profile/181946) (https://sciprofiles.com/profile/181946), [Mimmo Turano](https://sciprofiles.com/profile/348004) (https://sciprofiles.com/profile/348004), [Carla Lucini](https://sciprofiles.com/profile/496930) (https://sciprofiles.com/profile/496930) and [Ernesto Mollo](https://sciprofiles.com/profile/101660) (https://sciprofiles.com/profile/101660)
Mar. Drugs 2022, 20(8), 513; <https://doi.org/10.3390/md20080513> - 12 Aug 2022
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Abstract The invasive macroalga *Caulerpa cylindracea* has spread widely in the Mediterranean Sea, becoming a favorite food item for native fish for reasons yet unknown. By using a combination of behavioral, morphological, and molecular approaches, herein we provide evidence that the bisindole alkaloid caulerpin, [..] [Read more](#).
(This article belongs to the Special Issue **Marine Invasive Species and Their Bioactive Metabolites** ([/journal/marinedrugs/special_issues/invasive_species_bioactive_metabolites](https://journal/marinedrugs/special_issues/invasive_species_bioactive_metabolites)))

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Open Access Review [1660-3397/20/8/512/pdf?version=1660628079](https://doi.org/10.3390/md20080512/pdf?version=1660628079)

Exopolysaccharides from Marine Microbes: Source, Structure and Application (1660-3397/20/8/512)

by [Mingxing Qi](https://sciprofiles.com/profile/author/NldDL0NadWVrWGFpazBzMIhOZtORVVBWEIdSZy4bGV3dGzS2puTml3cz0=) (https://sciprofiles.com/profile/author/NldDL0NadWVrWGFpazBzMIhOZtORVVBWEIdSZy4bGV3dGzS2puTml3cz0=), [Caijuan Zheng](https://sciprofiles.com/profile/46650) (https://sciprofiles.com/profile/46650), [Wenhui Wu](https://sciprofiles.com/profile/66877) (https://sciprofiles.com/profile/66877), [Guangli Yu](https://sciprofiles.com/profile/71839) (https://sciprofiles.com/profile/71839) and [Peipei Wang](https://sciprofiles.com/profile/1952875) (https://sciprofiles.com/profile/1952875)
Mar. Drugs 2022, 20(8), 512; <https://doi.org/10.3390/md20080512> - 12 Aug 2022
Cited by 2 (1660-3397/20/8/512#metrics) | Viewed by 1538

Abstract The unique living environment of marine microorganisms endows them with the potential to produce novel chemical compounds with various biological activities. Among them, the exopolysaccharides produced by marine microbes are an important factor for them to survive in these extreme environments. Up to [..] [Read more](#).
(This article belongs to the Topic **Advances on the Extraction, Functionalities and Applications of Polysaccharides** ([topics/polysaccharides_application](https://journal/marinedrugs/special_issues/advances_on_the_extraction_functionalities_and_applications_of_polysaccharides)))

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Open Access Article [1660-3397/20/8/511/pdf?version=1660299014](https://doi.org/10.3390/md20080511/pdf?version=1660299014)

Fluorescently Labeled α -Conotoxin Tx1d, a New Probe for α 3 β 4 Neuronal Nicotinic Acetylcholine Receptors (1660-3397/20/8/511)

by [Meiling Huang](https://sciprofiles.com/profile/author/TUVpc0NKSvYdqZ2IQMzJrTkhPeJRZcVl2cnpZdVYVSR3l0SDIMdzFlazZMdz0=) (https://sciprofiles.com/profile/author/TUVpc0NKSvYdqZ2IQMzJrTkhPeJRZcVl2cnpZdVYVSR3l0SDIMdzFlazZMdz0=), [Xiaoping Zhu](https://sciprofiles.com/profile/65140) (https://sciprofiles.com/profile/65140), [Yishuai Yang](https://sciprofiles.com/profile/author/d1qeTVY2N1d0VhQmx6NjISVhQkRkRhekgvRmhBMIRSTXlyU1hDvK02OD0=) (https://sciprofiles.com/profile/author/d1qeTVY2N1d0VhQmx6NjISVhQkRkRhekgvRmhBMIRSTXlyU1hDvK02OD0=), [Yao Tan](https://sciprofiles.com/profile/author/Tm00ZnZscoloraWESXk2ZINLbDdYV3FkOWpUJ6azU0aWN0R3VWVWk0QT0=) (https://sciprofiles.com/profile/author/Tm00ZnZscoloraWESXk2ZINLbDdYV3FkOWpUJ6azU0aWN0R3VWVWk0QT0=), [Sulan Luo](https://sciprofiles.com/profile/52783) (https://sciprofiles.com/profile/52783) and [Dongting Zhangsun](https://sciprofiles.com/profile/978605) (https://sciprofiles.com/profile/978605)
Mar. Drugs 2022, 20(8), 511; <https://doi.org/10.3390/md20080511> - 12 Aug 2022
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Abstract Neuronal nicotinic acetylcholine receptors (nAChRs) are important ion channel membrane proteins that are widely distributed in the central nervous system (CNS) and peripheral nervous system (PNS). As an important member, α 3 β 4 nAChRs are related to pain sensation in PNS and nicotine addiction in [..] [Read more](#).
(This article belongs to the Section **Marine Toxins** ([/journal/marinedrugs/sections/marine_toxins](https://journal/marinedrugs/sections/marine_toxins)))

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Open Access Article [1660-3397/20/8/510/pdf?version=1660222453](https://doi.org/10.3390/md20080510/pdf?version=1660222453)

High-Purity Fucoxanthin Can Be Efficiently Prepared from *Isochrysis zhangjiangensis* by Ethanol-Based Green Method Coupled with Octadecylsilyl (ODS) Column Chromatography (1660-3397/20/8/510)

by [Genjie Zhuang](https://sciprofiles.com/profile/2332856) (https://sciprofiles.com/profile/2332856), [Yumei Ye](https://sciprofiles.com/profile/1590905) (https://sciprofiles.com/profile/1590905), [Junling Zhao](https://sciprofiles.com/profile/author/bDRMWGZiWnU2RUJtB2ZRQ2RsawREUIBMN2JJaUNQdFavENVYdydzODZMdz0=) (https://sciprofiles.com/profile/author/bDRMWGZiWnU2RUJtB2ZRQ2RsawREUIBMN2JJaUNQdFavENVYdydzODZMdz0=), [Chengxu Zhou](https://sciprofiles.com/profile/840158) (https://sciprofiles.com/profile/840158), [Junwang Zhu](https://sciprofiles.com/profile/author/YXBCekFOOWxFOTRXdEp5TEthc01xNE42RG02VDhFN09yagTvbN03NF13QT0=) (https://sciprofiles.com/profile/author/YXBCekFOOWxFOTRXdEp5TEthc01xNE42RG02VDhFN09yagTvbN03NF13QT0=), [Yanrong Li](https://sciprofiles.com/profile/author/TnZ0c3c2NU1vRVBv244TGlqDdOVIlaY0h4UTYxcVdMenZPMmw0cJURYST0=) (https://sciprofiles.com/profile/author/TnZ0c3c2NU1vRVBv244TGlqDdOVIlaY0h4UTYxcVdMenZPMmw0cJURYST0=), [Jinrong Zhang](https://sciprofiles.com/profile/236109) (https://sciprofiles.com/profile/236109) and [Xiaojun Yan](https://sciprofiles.com/profile/427613) (https://sciprofiles.com/profile/427613)
Mar. Drugs 2022, 20(8), 510; <https://doi.org/10.3390/md20080510> - 11 Aug 2022
Cited by 2 (1660-3397/20/8/510#metrics) | Viewed by 1131

Abstract The exploitation of new economically valuable microalgae as a sustainable source of minor high-value products can effectively promote the full utilization of microalgae. The efficient preparation of minor products from microalgae remains the challenge, owing to the coexistence of various components with a [..] [Read more](#).
(This article belongs to the Special Issue **Microalgal Carotenoids** ([/journal/marinedrugs/special_issues/microalgal_carotenoids](https://journal/marinedrugs/special_issues/microalgal_carotenoids)))

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Formulation, Characterization, and In Vitro/In Vivo Efficacy Studies of a Novel Liposomal Drug Delivery System of Amphiphilic Jaspine B for Treatment of Synovial Sarcoma (1660-3397/20/8/509)

by [Sana Khajeh pour](https://sciprofiles.com/profile/author/NEhBTzYNG4rSkk2RGR0WJRPcJsdFhOZU9oL21aNVicdGQ5Y0VRMTHNdzo=) (https://sciprofiles.com/profile/author/NEhBTzYNG4rSkk2RGR0WJRPcJsdFhOZU9oL21aNVicdGQ5Y0VRMTHNdzo=), [Sameena Mateen](https://sciprofiles.com/profile/2158954) (https://sciprofiles.com/profile/2158954), [Srinath Pashikanti](https://sciprofiles.com/profile/265539) (https://sciprofiles.com/profile/265539), [Jared J. Barrott](https://sciprofiles.com/profile/559523) (https://sciprofiles.com/profile/559523) and [Ali Aghazadeh-Habashi](https://sciprofiles.com/profile/1356605) (https://sciprofiles.com/profile/1356605)
Mar. Drugs 2022, 20(8), 509; <https://doi.org/10.3390/md20080509> (https://doi.org/10.3390/md20080509) - 10 Aug 2022
Viewed by 967

Abstract Sphingomyelin is a cell membrane sphingolipid that is upregulated in synovial sarcoma (SS). Jaspine B has been shown to inhibit sphingomyelin synthase, which synthesizes sphingomyelin from ceramide, a critical signal transducer; however, jaspine B's low bioavailability limits its application as a promising treatment [...]. [Read more.](#) (This article belongs to the Topic [Marine Microorganisms: Diversity, Bioactivity and Applications](#) (topics/marine_microorganisms))

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Mechanisms of Sodium-Acetate-Induced DHA Accumulation in a DHA-Producing Microalga, *Cryptocodinium* sp. SUN (1660-3397/20/8/508)

by [Yiming Li](https://sciprofiles.com/profile/2259687) (https://sciprofiles.com/profile/2259687), [Weina Tian](https://sciprofiles.com/profile/author/bW14RndWS2c1bnVlcZNUUWNYVExObEdJWVptaG9YOUvNaG02eGIUNU5QOD0=) (https://sciprofiles.com/profile/author/bW14RndWS2c1bnVlcZNUUWNYVExObEdJWVptaG9YOUvNaG02eGIUNU5QOD0=), [Zhongxiang Fu](https://sciprofiles.com/profile/author/Uk9JaS9zUkQ0Vv90eTJ1WSUJSGpKM1NSTkxYk5HNSrRbHJ6ZkqfNEpSbz0=) (https://sciprofiles.com/profile/author/Uk9JaS9zUkQ0Vv90eTJ1WSUJSGpKM1NSTkxYk5HNSrRbHJ6ZkqfNEpSbz0=), [Wenqi Ye](https://sciprofiles.com/profile/author/SVQ3N3lmlNtkSG9TQmp4UFByR2krUTdN22SrbjRkVl9oN1RNZFNZGMBDYz0=) (https://sciprofiles.com/profile/author/SVQ3N3lmlNtkSG9TQmp4UFByR2krUTdN22SrbjRkVl9oN1RNZFNZGMBDYz0=), [Xinwei Zhang](https://sciprofiles.com/profile/author/OWJMcXBkTDNGNTRpL1JFaVxkc1YyQT09) (https://sciprofiles.com/profile/author/OWJMcXBkTDNGNTRpL1JFaVxkc1YyQT09), [Zhao Zhang](https://sciprofiles.com/profile/2260392) (https://sciprofiles.com/profile/2260392) and [Dongzhe Sun](https://sciprofiles.com/profile/author/UFNEVGFrdlJOWtuNE1XTzR3RDR6TWZ1Q284S2kzN0FibUJKY2FoNVBQTt0=) (https://sciprofiles.com/profile/author/UFNEVGFrdlJOWtuNE1XTzR3RDR6TWZ1Q284S2kzN0FibUJKY2FoNVBQTt0=)
Mar. Drugs 2022, 20(8), 508; <https://doi.org/10.3390/md20080508> (https://doi.org/10.3390/md20080508) - 09 Aug 2022
Cited by 1 (1660-3397/20/8/508#metrics) | Viewed by 863

Abstract Docosahexaenoic acid (DHA) is an omega-3 polyunsaturated fatty acid (PUFA) that is critical for the intelligence and visual development of infants. *Cryptocodinium* is the first microalga approved by the Food and Drug Administration for DHA production, but its relatively high intracellular starch content [...]. [Read more.](#) (This article belongs to the Section [Marine-Derived Ingredients for Drugs, Cosmeceuticals and Nutraceuticals](#) (journal/marinedrugs/sections/marine-derived_ingredients_bio-products))

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Antifouling Marine Coatings with a Potentially Safer and Sustainable Synthetic Polyphenolic Derivative (1660-3397/20/8/507)

by [Ana R. Neves](https://sciprofiles.com/profile/181217) (https://sciprofiles.com/profile/181217), [Luciana C. Gomes](https://sciprofiles.com/profile/411535) (https://sciprofiles.com/profile/411535), [Sara I. Faria](https://sciprofiles.com/profile/1431664) (https://sciprofiles.com/profile/1431664), [João Sousa](https://sciprofiles.com/profile/1959088) (https://sciprofiles.com/profile/1959088), [Raquel Ruivo](https://sciprofiles.com/profile/546438) (https://sciprofiles.com/profile/546438), [Inés Páscoa](https://sciprofiles.com/profile/author/T1RsRWyl1VneU5iNGI4dG9Kk2dONGZjWWpQUmFJUmP4LzBtaGdLb0krdz0=) (https://sciprofiles.com/profile/author/T1RsRWyl1VneU5iNGI4dG9Kk2dONGZjWWpQUmFJUmP4LzBtaGdLb0krdz0=), [Madalena Pinto](https://sciprofiles.com/profile/265397) (https://sciprofiles.com/profile/265397), [Emília Sousa](https://sciprofiles.com/profile/148085) (https://sciprofiles.com/profile/148085), [Miguel M. Santos](https://sciprofiles.com/profile/197886) (https://sciprofiles.com/profile/197886), [Elisabete R. Silva](https://sciprofiles.com/profile/315246) (https://sciprofiles.com/profile/315246), [Marta Correia-da-Silva](https://sciprofiles.com/profile/180912) (https://sciprofiles.com/profile/180912) and [Filipe Mergulhão](https://sciprofiles.com/profile/418585) (https://sciprofiles.com/profile/418585)
Mar. Drugs 2022, 20(8), 507; <https://doi.org/10.3390/md20080507> (https://doi.org/10.3390/md20080507) - 05 Aug 2022
Cited by 2 (1660-3397/20/8/507#metrics) | Viewed by 1177

Abstract The development of harmless substances to replace biocide-based coatings used to prevent or manage marine biofouling and its unwanted consequences is urgent. The formation of biofilms on submerged marine surfaces is one of the first steps in the marine biofouling process, which facilitates [...]. [Read more.](#) (This article belongs to the Special Issue [Marine Natural Products with Antifouling Activity, 2nd Edition](#) (journal/marinedrugs/special_issues/Marine_Natural_Products_Antifouling_Activity_2))

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Open Access Article (1660-3397/20/8/506/pdf?version=1659673680)

Biochemical Characterization and Elucidation of the Hybrid Action Mode of a New Psychrophilic and Cold-Tolerant Alginate Lyase for Efficient Preparation of Alginate Oligosaccharides (1660-3397/20/8/506)

by [Shengsheng Cao](https://sciprofiles.com/profile/author/S2JmeTVvUkF3VHRURXhkOTZ6aEVUUTU11dXdcZHlHa1o0NGdQld0MjEYUJ0=) (https://sciprofiles.com/profile/author/S2JmeTVvUkF3VHRURXhkOTZ6aEVUUTU11dXdcZHlHa1o0NGdQld0MjEYUJ0=), [Li Li](https://sciprofiles.com/profile/author/T2oxTHgyYXRNeHFCCWhCeE5ScHdSlpDQy9MOE81RHpBUTJsQnBUaFJlST0=) (https://sciprofiles.com/profile/author/T2oxTHgyYXRNeHFCCWhCeE5ScHdSlpDQy9MOE81RHpBUTJsQnBUaFJlST0=), [Benwei Zhu](https://sciprofiles.com/profile/261656) (https://sciprofiles.com/profile/261656) and [Zhong Yao](https://sciprofiles.com/profile/405758) (https://sciprofiles.com/profile/405758)
Mar. Drugs 2022, 20(8), 506; <https://doi.org/10.3390/md20080506> (https://doi.org/10.3390/md20080506) - 05 Aug 2022
Cited by 2 (1660-3397/20/8/506#metrics) | Viewed by 994

Abstract Alginate lyases with unique biochemical properties have irreplaceable value in food and biotechnology industries. Herein, the first new hybrid action mode *Thalassotalea algicola*-derived alginate lyase gene (TAPL7A) with both psychrophilic and cold-tolerance was cloned and expressed heterologously in *E. coli*. With [...]. [Read more.](#) (This article belongs to the Special Issue [Advances in Oligosaccharides and Polysaccharide Modifications in Marine Bioresources](#) (journal/marinedrugs/special_issues/Advances_Oligosaccharides_Polysaccharide_Modifications_Marine_Bioresources))

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Structural and Functional Characterization of Orcokinin B-like Neuropeptides in the Cuttlefish (*Sepia officinalis*) (1660-3397/20/8/505)

by [Maxime Endress](https://sciprofiles.com/profile/author/T1R3VTRKdVNGV3htbnUxVnp1MjJXOHlxVDBHQjhBWIFLdzVvYrTd6SIVPdZ0=) (<https://sciprofiles.com/profile/author/T1R3VTRKdVNGV3htbnUxVnp1MjJXOHlxVDBHQjhBWIFLdzVvYrTd6SIVPdZ0=>), [Céline Zatylny-Gaudin](https://sciprofiles.com/profile/1180171) (<https://sciprofiles.com/profile/1180171>), [Jérôme Leprince](https://sciprofiles.com/profile/9322661) (<https://sciprofiles.com/profile/9322661>), [Benjamin Lefranc](https://sciprofiles.com/profile/author/bG9kd0YwRzBHWnNraFbVvK5kbFprMkduRWZjREplQjZGR1FQbkrSS0ZHMd0=) (<https://sciprofiles.com/profile/author/bG9kd0YwRzBHWnNraFbVvK5kbFprMkduRWZjREplQjZGR1FQbkrSS0ZHMd0=>), [Erwan Corre](https://sciprofiles.com/profile/author/MXgrcWhqbTnvcWV5VFBxW9jR1JHTDZnSL4YtZxNd3VHL0pnSmVIUqP4WT0=) (<https://sciprofiles.com/profile/author/MXgrcWhqbTnvcWV5VFBxW9jR1JHTDZnSL4YtZxNd3VHL0pnSmVIUqP4WT0=>), [Gildas Le Corquillat](https://sciprofiles.com/profile/author/bW5XeHZVZ3dZdZwVfZRE9QOVnNmFRUDQWZER0dEh2cnlmaVRhUGFBQ0=) (<https://sciprofiles.com/profile/author/bW5XeHZVZ3dZdZwVfZRE9QOVnNmFRUDQWZER0dEh2cnlmaVRhUGFBQ0=>), [Benoît Bernay](https://sciprofiles.com/profile/author/ZS4a0tIMG0UJBCN2JrRnliOERMQWmNFdYNDaxb1cvclBISlpEUX6OD0=) (<https://sciprofiles.com/profile/author/ZS4a0tIMG0UJBCN2JrRnliOERMQWmNFdYNDaxb1cvclBISlpEUX6OD0=>), [Alexandre Leduc](https://sciprofiles.com/profile/995108) (<https://sciprofiles.com/profile/995108>), [Jimmy Rangama](https://sciprofiles.com/profile/author/Y2Q1MJRzV0twYJFKdmxVS1dXOUWQWN4RHRGm9XYXpJNTRWNStOZVBLZz0=) (<https://sciprofiles.com/profile/author/Y2Q1MJRzV0twYJFKdmxVS1dXOUWQWN4RHRGm9XYXpJNTRWNStOZVBLZz0=>), [Liza Mouret](https://sciprofiles.com/profile/author/aUpPMXg3ZUJGZGZGE1TRmRoWGNcY08wZ1JbZjB2QytkcmJpb2wwcUNUhz0=) (<https://sciprofiles.com/profile/author/aUpPMXg3ZUJGZGZGE1TRmRoWGNcY08wZ1JbZjB2QytkcmJpb2wwcUNUhz0=>), [Anne-Gaëlle Lafont](https://sciprofiles.com/profile/author/LooyS08wcVYdzZadFREZklqBxdvdz09) (<https://sciprofiles.com/profile/author/LooyS08wcVYdzZadFREZklqBxdvdz09>), [Arnaud Bondon](https://sciprofiles.com/profile/173402) (<https://sciprofiles.com/profile/173402>) and [Joël Henry](https://sciprofiles.com/profile/2252958) (<https://sciprofiles.com/profile/2252958>)

Mar. Drugs 2022, 20(8), 505; <https://doi.org/10.3390/md20080505> (https://doi.org/10.3390/md20080505) - 04 Aug 2022

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Abstract. The cuttlefish (*Sepia officinalis*) is a Cephalopod mollusk that lives in the English Channel and breeds in coastal spawning grounds in spring. A previous work showed that the control of egg-laying is monitored by different types of regulators, among which neuropeptides [...] [Read more.](#)
(This article belongs to the Special Issue **Marine Proteomics in Exploring Bioactive Peptides and Proteins** ([Journal/marinedrugs/special_issues/marine_proteomics](#)))

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Genome-Wide Identification, Evolutionary Analysis, and Expression Patterns of Cathepsin Superfamily in Black Rockfish (*Sebastes schlegelii*) following *Aeromonas salmonicida* Infection (1660-3397/20/8/504)

by [Yuying Li](https://sciprofiles.com/profile/author/NG1SQk1YdW5PcEIVbkQ1WIBiZ0xxanFEalpsakU1RTZPMGMvTKVZRnVvZ0=) (<https://sciprofiles.com/profile/author/NG1SQk1YdW5PcEIVbkQ1WIBiZ0xxanFEalpsakU1RTZPMGMvTKVZRnVvZ0=>), [Xingchun Li](https://sciprofiles.com/profile/author/UDdKtUhuYUUEwNXF2cEFPZG8rVmNpMDk2Tm9DdDQrKz4M4tHbTJgTBLWT0=) (<https://sciprofiles.com/profile/author/UDdKtUhuYUUEwNXF2cEFPZG8rVmNpMDk2Tm9DdDQrKz4M4tHbTJgTBLWT0=>), [Pei Zhang](https://sciprofiles.com/profile/author/RVhWdWFDWWhwGVQRHpnagG3YkcdUkrY3FyL3JRjUdVYWIHM1p4U0FpWT0=) (<https://sciprofiles.com/profile/author/RVhWdWFDWWhwGVQRHpnagG3YkcdUkrY3FyL3JRjUdVYWIHM1p4U0FpWT0=>), [Defeng Chen](https://sciprofiles.com/profile/author/QVQRUFi5S5kFhWU5UkV2TUpPbDlvZhuaGJjcmNKVzR4Y2IbUpsdDA2bz0=) (<https://sciprofiles.com/profile/author/QVQRUFi5S5kFhWU5UkV2TUpPbDlvZhuaGJjcmNKVzR4Y2IbUpsdDA2bz0=>), [Xinran Tao](https://sciprofiles.com/profile/author/bkNUSUk5TytBTWRnb1g2TVR0eXY1cUpDajNqMkIldJvDjZreil2ME9MQT0=) (<https://sciprofiles.com/profile/author/bkNUSUk5TytBTWRnb1g2TVR0eXY1cUpDajNqMkIldJvDjZreil2ME9MQT0=>), [Min Cao](https://sciprofiles.com/profile/author/bkMzbnHmcm9HNvJKVEJ3RU5iTEPT1A4WHINmVNVZJmVkn9SXVkmWNCRT0=) (<https://sciprofiles.com/profile/author/bkMzbnHmcm9HNvJKVEJ3RU5iTEPT1A4WHINmVNVZJmVkn9SXVkmWNCRT0=>), and [Chao Li](https://sciprofiles.com/profile/1624277) (<https://sciprofiles.com/profile/1624277>) and [Qiang Fu](https://sciprofiles.com/profile/2287051) (<https://sciprofiles.com/profile/2287051>)

Mar. Drugs 2022, 20(8), 504; <https://doi.org/10.3390/md20080504> (https://doi.org/10.3390/md20080504) - 03 Aug 2022

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Abstract. Cathepsins are lysosomal cysteine proteases belonging to the papain family and play crucial roles in intracellular protein degradation/turnover, hormone maturation, antigen processing, and immune responses. In the present study, 18 cathepsins were systematically identified from the fish *S. schlegelii* genome. Phylogenetic analysis indicated [...] [Read more.](#)
(This article belongs to the Special Issue **Marine Linear Peptides: Isolation, Structure, Biological Properties, Synthesis, Biosynthesis, and Current Advances in Therapeutics** ([Journal/marinedrugs/special_issues/Marine_Linear_Peptides](#)))

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New Three-Finger Protein from Starfish *Asteria rubens* Shares Structure and Pharmacology with Human Brain Neuromodulator Lynx2 (1660-3397/20/8/503)

by [Alexander S. Paramonov](https://sciprofiles.com/profile/1223140) (<https://sciprofiles.com/profile/1223140>), [Mikhail A. Shulepko](https://sciprofiles.com/profile/author/cUf4b0dWVzdBd0NCK1FLRX1MTU4b0ZGcm91enlidUJ3S1VbVvVHMTMZZ0=) (<https://sciprofiles.com/profile/author/cUf4b0dWVzdBd0NCK1FLRX1MTU4b0ZGcm91enlidUJ3S1VbVvVHMTMZZ0=>), [Alexey M. Makhonin](https://sciprofiles.com/profile/author/eUJHQjYShdKYmVQZjYzYdE83dIY4L3d1NEpMUKVaN2JDTGw2VVIQanhxTT0=) (<https://sciprofiles.com/profile/author/eUJHQjYShdKYmVQZjYzYdE83dIY4L3d1NEpMUKVaN2JDTGw2VVIQanhxTT0=>), [Maxim L. Bychkov](https://sciprofiles.com/profile/965873) (<https://sciprofiles.com/profile/965873>), [Dmitrii S. Kulbatskii](https://sciprofiles.com/profile/author/Q0l0hekg3VG4rSFE3dlRwc0SteihCeW5Dais2VmJqUjZIU1JycmlaendHMD0=) (<https://sciprofiles.com/profile/author/Q0l0hekg3VG4rSFE3dlRwc0SteihCeW5Dais2VmJqUjZIU1JycmlaendHMD0=>), [Andrey M. Chernikov](https://sciprofiles.com/profile/author/RmpvaFNSWUVQdF5bHRpNHbXUGZIVUtaSld5LzJPzE0V3M5YkpuNjhHTV0=) (<https://sciprofiles.com/profile/author/RmpvaFNSWUVQdF5bHRpNHbXUGZIVUtaSld5LzJPzE0V3M5YkpuNjhHTV0=>), [Mikhail Yu. Myshkin](https://sciprofiles.com/profile/author/N2xPdm03SVRwb2daSGIEaEV6L1Zab3BoSkFoRII1akRjUII8yQOE2RE1yTT0=) (<https://sciprofiles.com/profile/author/N2xPdm03SVRwb2daSGIEaEV6L1Zab3BoSkFoRII1akRjUII8yQOE2RE1yTT0=>), [Sergey V. Shabelnikov](https://sciprofiles.com/profile/author/bk9SeXRzYTCUE5JRM5Gay9uOUxKQWZSRmFFbGQ0bG0rUVYvWEPH0IGST0=) (<https://sciprofiles.com/profile/author/bk9SeXRzYTCUE5JRM5Gay9uOUxKQWZSRmFFbGQ0bG0rUVYvWEPH0IGST0=>), [Zakhar O. Shenkarev](https://sciprofiles.com/profile/1200591) (<https://sciprofiles.com/profile/1200591>), [Mikhail P. Kirpichnikov](https://sciprofiles.com/profile/author/ZXAxWdZHL2pXem5OcDFTR3UwdHJXZ0hzdW5EaEzS3isWWWc1RWn2Nmp4az0=) (<https://sciprofiles.com/profile/author/ZXAxWdZHL2pXem5OcDFTR3UwdHJXZ0hzdW5EaEzS3isWWWc1RWn2Nmp4az0=>) and [Ekaterina N. Lyukmanova](https://sciprofiles.com/profile/578980) (<https://sciprofiles.com/profile/578980>)

Mar. Drugs 2022, 20(8), 503; <https://doi.org/10.3390/md20080503> (https://doi.org/10.3390/md20080503) - 03 Aug 2022

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Abstract. Three-finger proteins (TFPs) are small proteins with characteristic three-finger β -structural fold stabilized by the system of conserved disulfide bonds. These proteins have been found in organisms from different taxonomic groups and perform various important regulatory functions or act as components of snake venoms. [...] [Read more.](#)
(This article belongs to the Section **Marine Pharmacology** ([Journal/marinedrugs/sections/marine_pharmacology](#)))

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In Vitro Toxicity Evaluation of Carrageenan on Cells and Tissues of the Oral Cavity (1660-3397/20/8/502)

by [Y. Ali](https://sciprofiles.com/profile/2300636) (https://sciprofiles.com/profile/2300636), [Akshaya Upadhyay](https://sciprofiles.com/profile/915485) (https://sciprofiles.com/profile/915485), [Yuli Zhang](https://sciprofiles.com/profile/author/V3ITdnI3T2PeIZRL1BPeUNET1N6VkiZSvZCJkceJDS0Mzckv0VJUT0=) (https://sciprofiles.com/profile/author/V3ITdnI3T2PeIZRL1BPeUNET1N6VkiZSvZCJkceJDS0Mzckv0VJUT0=), [Belinda Nicolau](https://sciprofiles.com/profile/author/dVZJkFQMDFOmNidIZYbdjNUIsMXVrdzNMWnhudmsJSIphcRG0V721P0p0=) (https://sciprofiles.com/profile/author/dVZJkFQMDFOmNidIZYbdjNUIsMXVrdzNMWnhudmsJSIphcRG0V721P0p0=), and [Simon D. Tran](https://sciprofiles.com/profile/602239) (https://sciprofiles.com/profile/602239)

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Abstract Carrageenan is a highly potent anti-human papillomavirus (HPV) agent with the potential for formulation as a mouthwash against oral HPV infection. However, its toxic effect on tissues of the oral cavity is currently unknown. This study aims to evaluate the safety of carrageenan [...]. [Read more.](#)
(This article belongs to the Topic **Safety and Toxicological Risks of Medicinal Plants and Natural Products: Mechanistic Insights (Topics/Safety_and_Toxicological_Risks_of_Medicinal_Plants_and_Natural_Products)**)

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Marine Arthropods as a Source of Antimicrobial Peptides (1660-3397/20/8/501)

by [Juan Pablo Saucedo-Vázquez](https://sciprofiles.com/profile/2246657) (https://sciprofiles.com/profile/2246657), [Fernando Gushque](https://sciprofiles.com/profile/2246658) (https://sciprofiles.com/profile/2246658), [Nelson Santiago Vispo](https://sciprofiles.com/profile/697093) (https://sciprofiles.com/profile/697093), [Jenny Rodríguez](https://sciprofiles.com/profile/2246659) (https://sciprofiles.com/profile/2246659), [Marco Esteban Guidño-Gómez Jurado](https://sciprofiles.com/profile/11221) (https://sciprofiles.com/profile/11221), [Fernando Albericio](https://sciprofiles.com/profile/2246660) (https://sciprofiles.com/profile/2246660), and [Frank Alexis](https://sciprofiles.com/profile/387943) (https://sciprofiles.com/profile/387943)

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Abstract Peptide therapeutics play a key role in the development of new medical treatments. The traditional focus on endogenous peptides has shifted from first discovering other natural sources of these molecules, to later synthesizing those with unique bioactivities. This review provides concise information concerning [...]. [Read more.](#)

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≡ ⬇ (1660-3397/20/8/500/pdf?version=1659441702)

Improved Plasma Lipids, Anti-Inflammatory Activity, and Microbiome Shifts in Overweight Participants: Two Clinical Studies on Oral Supplementation with Algal Sulfated Polysaccharide (1660-3397/20/8/500)

by [Lauren A. Roach](https://sciprofiles.com/profile/1296491) (https://sciprofiles.com/profile/1296491), [Barbara J. Meyer](https://sciprofiles.com/profile/11455) (https://sciprofiles.com/profile/11455), [J. Helen Fitton](https://sciprofiles.com/profile/1884324) (https://sciprofiles.com/profile/1884324), and [Pia Winberg](https://sciprofiles.com/profile/415881) (https://sciprofiles.com/profile/415881)

Mar. Drugs 2022, 20(8), 500; <https://doi.org/10.3390/md20080500> (https://doi.org/10.3390/md20080500) - 02 Aug 2022

Cited by 2 (1660-3397/20/8/500#metrics) | Viewed by 1645

Abstract Seaweed polysaccharides in the diet may influence both inflammation and the gut microbiome. Here we describe two clinical studies with an *Ulva* sp. 84-derived sulfated polysaccharide—“xylofuranoglucuronan” (SXRG84)—on metabolic markers, inflammation, and gut flora composition. The first study was a double-blind, randomized placebo-controlled trial [...]. [Read more.](#)

(This article belongs to the Special Issue **Marine Anti-Inflammatory and Antioxidant Agents 2.0** ([/journal/marinedrugs/special_issues/Anti_inflammatoryAntioxidantAgents2.0](https://journal.mdpi.com/marinedrugs/special_issues/Anti_inflammatoryAntioxidantAgents2.0)))

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≡ ⬇ (1660-3397/20/8/499/pdf?version=1659430560)

Scale-Up to Pilot of a Non-Axenic Culture of Thraustochytrids Using Digestate from Methanization as Nitrogen Source (1660-3397/20/8/499)

by [Denis de la Broise](https://sciprofiles.com/profile/2296073) (https://sciprofiles.com/profile/2296073), [Mariana Ventura](https://sciprofiles.com/profile/2804355) (https://sciprofiles.com/profile/2804355), [Luc Chauchat](https://sciprofiles.com/profile/author/c3p3WEpiZGvAkpiNjBNQWRGRWpSVDFYwJpUannOSncvki3R2hxWmlhzb0=) (https://sciprofiles.com/profile/author/c3p3WEpiZGvAkpiNjBNQWRGRWpSVDFYwJpUannOSncvki3R2hxWmlhzb0=), [Maureen Guerreiro](https://sciprofiles.com/profile/2318323) (https://sciprofiles.com/profile/2318323), [Teo Michez](https://sciprofiles.com/profile/author/dTSSG1NdWREL3BWWUjWU9rTXhsaXRmZjdVz2m9VOFVmRzdjMVVhak1Yz0=) (https://sciprofiles.com/profile/author/dTSSG1NdWREL3BWWUjWU9rTXhsaXRmZjdVz2m9VOFVmRzdjMVVhak1Yz0=), [Thibaud Vinet](https://sciprofiles.com/profile/author/VnISRZJNFZaa2RXSVgydnizaWsoNFZUdDdQUGhRkQwRZzdk5NS3dUND0=) (https://sciprofiles.com/profile/author/VnISRZJNFZaa2RXSVgydnizaWsoNFZUdDdQUGhRkQwRZzdk5NS3dUND0=), [Nicolas Gautron](https://sciprofiles.com/profile/2358910) (https://sciprofiles.com/profile/2358910), [Fabienne Le Grand](https://sciprofiles.com/profile/1467039) (https://sciprofiles.com/profile/1467039), [Antoine Bidaud](https://sciprofiles.com/profile/author/TYWdxW56dkpVYXBSWRuY0JGRGNITHJSGk3eU5qWXRaWmNxTvdkVbkFpaz0=) (https://sciprofiles.com/profile/author/TYWdxW56dkpVYXBSWRuY0JGRGNITHJSGk3eU5qWXRaWmNxTvdkVbkFpaz0=), [Nelly Le Goïc](https://sciprofiles.com/profile/author/emdEL1ZVYkNMVFPqQUINIWWk2elZIOc9cmkxTkhDcEo4ODNCOUiCVWdGd0=) (https://sciprofiles.com/profile/author/emdEL1ZVYkNMVFPqQUINIWWk2elZIOc9cmkxTkhDcEo4ODNCOUiCVWdGd0=), [Adeline Bidaud](https://sciprofiles.com/profile/author/MnZYaUJkMjVjemRXWmwvTv2enJWWWJaOVh1Kzq3StdxU05UWJRRY9BT0=) (https://sciprofiles.com/profile/author/MnZYaUJkMjVjemRXWmwvTv2enJWWWJaOVh1Kzq3StdxU05UWJRRY9BT0=), [Christophe Lambert](https://sciprofiles.com/profile/966485) (https://sciprofiles.com/profile/966485), and [Philippe Soudant](https://sciprofiles.com/profile/1023103) (https://sciprofiles.com/profile/1023103)

Mar. Drugs 2022, 20(8), 499; <https://doi.org/10.3390/md20080499> (https://doi.org/10.3390/md20080499) - 02 Aug 2022

Cited by 2 (1660-3397/20/8/499#metrics) | Viewed by 1038

Abstract The production of non-fish based docosahexaenoic acid (DHA) for feed and food has become a critical need in our global context of over-fishing. The industrial-scale production of DHA-rich Thraustochytrids could be an alternative, if costs turned out to be competitive. In order to [...]. [Read more.](#)
(This article belongs to the Special Issue **Marine Thraustochytrids: Biology, Chemical Ecology and Biotechnology** ([/journal/marinedrugs/special_issues/Marine_Thraustochytrids](https://journal.mdpi.com/marinedrugs/special_issues/Marine_Thraustochytrids)))

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≡ ⬇ (1660-3397/20/8/498/pdf?version=1659421601)

Sponenolactones A–C, Bioactive 5,5,6,6,5-Pentacyclic Spongian Diterpenes from the Red Sea Sponge *Spongia* sp. (1660-3397/20/8/498)


by [Chi-Jen Tai](https://sciprofiles.com/profile/2369000) (https://sciprofiles.com/profile/2369000), [Atallah F. Ahmed](https://sciprofiles.com/profile/724008) (https://sciprofiles.com/profile/724008), [Chih-Hua Chao](https://sciprofiles.com/profile/186210) (https://sciprofiles.com/profile/186210), and [Chia-Hung Yen](https://sciprofiles.com/profile/1659688) (https://sciprofiles.com/profile/1659688)

Tsong-Long Hwang (https://sciprofiles.com/profile/47914), Fang-Rong Chang (https://sciprofiles.com/profile/45469),
Yuan Ma (https://sciprofiles.com/profile/2297935), M. Huang (https://sciprofiles.com/profile/author/bm55dWVYzkhJaVdEeXdxWVUvYJLZhSmmlyUXlibEMvbEFvbGILK0Y3Yz0=) and
Jyh-Hong Sheu (https://sciprofiles.com/profile/6993)
Mar. Drugs 2022, 20(8), 498; https://doi.org/10.3390/md20080498 (https://doi.org/10.3390/md20080498) - 01 Aug 2022
Cited by 1 (1660-3397/20/8/498#metrics) | Viewed by 1176

Abstract Three new 5,5,6,6,5-pentacyclic spongian diterpenes, spongenolactones A–C (1–3), were isolated from a Red Sea sponge *Spongia* sp. The structures of the new metabolites were elucidated by extensive spectroscopic analysis and the absolute configurations of 1–3 were determined on [...] [Read more](#).
(This article belongs to the Special Issue [Marine Compounds and Research of the Middle East](#) (/journal/marinedrugs/special_issues/MiddleEast))

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Open Access Article  (1660-3397/20/8/497/pdf?version=1660285153) 


Single-Disulfide Conopeptide Czon1107, an Allosteric Antagonist of the Human α 3 β 4 Nicotinic Acetylcholine Receptor (1660-3397/20/8/497)

by [Yuan Ma](#) (https://sciprofiles.com/profile/2297935), [Qiushi Cao](#) (https://sciprofiles.com/profile/author/WWWLM3FLbThMcHpWRTIseLJOYzhrZ09),
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[Yue Gao](#) (https://sciprofiles.com/profile/2361603), [Shuiping Fu](#) (https://sciprofiles.com/profile/2857260),
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[David J. Adams](#) (https://sciprofiles.com/profile/12821), [Tao Jiang](#) (https://sciprofiles.com/profile/19817),
[Han-Shen Tae](#) (https://sciprofiles.com/profile/2315031) and [Rilei Yu](#) (https://sciprofiles.com/profile/313538)
Mar. Drugs 2022, 20(8), 497; https://doi.org/10.3390/md20080497 (https://doi.org/10.3390/md20080497) - 31 Jul 2022
Cited by 1 (1660-3397/20/8/497#metrics) | Viewed by 995

Abstract Conopeptides are peptides in the venom of marine cone snails that are used for capturing prey or as a defense against predators. A new cysteine-poor conopeptide, Czon1107, has exhibited non-competitive inhibition with an undefined allosteric mechanism in the human (h) α 3 β 4 nicotinic acetylcholine [...] [Read more](#).
(This article belongs to the Special Issue [Conotoxins 2022](#) (/journal/marinedrugs/special_issues/conotoxins_2022))

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Open Access Review  (1660-3397/20/8/496/pdf?version=1659343024)

Carotenoids Biosynthesis, Accumulation, and Applications of a Model Microalga *Euglenagracilis* (1660-3397/20/8/496)

by [Rao Yao](#) (https://sciprofiles.com/profile/author/VnFyODN3clNsdEgyTDJoeHVUeXhVWMI1N1d3dXKy9ya2w0a3pPaCtMD0=),
[Wen Fu](#) (https://sciprofiles.com/profile/author/bVdLWlYrQTJbDhJ2bGk2RG9kbHJZSDkyOVfUu2RVqmpMUG81gkxYwI90cz0=),
[Ming Du](#) (https://sciprofiles.com/profile/2452931),
[Zi-Xi Chen](#) (https://sciprofiles.com/profile/author/K2dDvVbWYVz3J1eJjRDh6VG83RDFKRRhhbWIOeZBDWU00Mm1Ndytocz0=),
[An-Ping Lei](#) (https://sciprofiles.com/profile/184818) and [Jiang-Xin Wang](#) (https://sciprofiles.com/profile/932730).
Mar. Drugs 2022, 20(8), 496; https://doi.org/10.3390/md20080496 (https://doi.org/10.3390/md20080496) - 31 Jul 2022
Cited by 2 (1660-3397/20/8/496#metrics) | Viewed by 1673

Abstract The carotenoids, including lycopene, lutein, astaxanthin, and zeaxanthin belong to the isoprenoids, whose basic structure is made up of eight isoprene units, resulting in a C40 backbone, though some of them are only trace components in *Euglena*. They are essential to all [...] [Read more](#).
(This article belongs to the Special Issue [Microalgal Carotenoids](#) (/journal/marinedrugs/special_issues/microalgal_carotenoids))

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Open Access Article  (1660-3397/20/8/495/pdf?version=1659413762)


A Novel Marine Pyran-Isoindolone Compound Enhances Fibrin Lysis Mediated by Single-Chain Urokinase-Type Plasminogen Activator (1660-3397/20/8/495)

by [Chunli Gao](#) (https://sciprofiles.com/profile/1348513), [Simin Tang](#) (https://sciprofiles.com/profile/2359924),
[Haixing Zhang](#) (https://sciprofiles.com/profile/author/TmdsSERUJ3F1b0poYfEPaW9zNlP0R29S5UH2FYMGFHU3M2Q1gwNzdXU0=),
[Huishu Zhang](#) (https://sciprofiles.com/profile/author/bndXVThkM2szSUjCERF0BDMjDndklineURBRloydGRaaUNZK1pjN3ZLST0=),
[An-Ping Lei](#) (https://sciprofiles.com/profile/author/cWhVncrdJ85U3ZCRjhaK0p0VKlseaTIEUdGzYnAzd3RIWwdtamd3OXpZU0=),
[Bin Bao](#) (https://sciprofiles.com/profile/499835), [Yuping Zhu](#) (https://sciprofiles.com/profile/2314735) and [Wenhui Wu](#) (https://sciprofiles.com/profile/66877)
Mar. Drugs 2022, 20(8), 495; https://doi.org/10.3390/md20080495 (https://doi.org/10.3390/md20080495) - 30 Jul 2022
Viewed by 911

Abstract Fungi fibrinolytic compound 1 (FGFC1) is a rare pyran-isoindolone derivative with fibrinolytic activity. The aim of this study was to further determine the effect of FGFC1 on fibrin clots lysis in vitro. We constructed a fibrinolytic system containing single-chain urokinase-type plasminogen activator (scu-PA) [...] [Read more](#).

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Open Access Review  (1660-3397/20/8/494/pdf?version=1659170551)

Antibody-Drug Conjugates Containing Payloads from Marine Origin (1660-3397/20/8/494)

by [Ivan Cheng-Sánchez](#) (https://sciprofiles.com/profile/2296560), [Federico Moya-Utrera](#) (https://sciprofiles.com/profile/2244189),
[Cristina Porras-Alcalá](#) (https://sciprofiles.com/profile/1051588), [Juan M. López-Romero](#) (https://sciprofiles.com/profile/681196) and
[Francisco Sarabia](#) (https://sciprofiles.com/profile/11142)
Mar. Drugs 2022, 20(8), 494; https://doi.org/10.3390/md20080494 (https://doi.org/10.3390/md20080494) - 30 Jul 2022
Cited by 2 (1660-3397/20/8/494#metrics) | Viewed by 2224


Abstract Antibody-drug conjugates (ADCs) are an important class of therapeutics for the treatment of cancer. Structurally, an ADC comprises an antibody, which serves as the delivery system, a payload drug that is a potent cytotoxin that kills cancer cells, and a chemical linker that [...] [Read more](#).
(This article belongs to the Special Issue [In Vitro and In Vivo Approaches to Study Potential Marine Drugs II](#) (/journal/marinedrugs/special_issues/second_edition_Vitro_Vivo))

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
Potential Psychoactive Effects of Microalgal Bioactive Compounds for the Case of Sleep and Mood Regulation: Opportunities and Challenges (1660-3397/20/8/493) by  Bozena McCarthy (https://sciprofiles.com/profile/2347253),  Graham O'Neill (https://sciprofiles.com/profile/2844804) and  Nissren Abu-Ghannam (https://sciprofiles.com/profile/1865470)

Mar. Drugs 2022, 20(8), 493; https://doi.org/10.3390/md20080493 (https://doi.org/10.3390/md20080493) - 29 Jul 2022
Cited by 2 (1660-3397/20/8/493#metrics) | Viewed by 1619

Abstract Sleep deficiency is now considered an emerging global epidemic associated with many serious health problems, and a major cause of financial and social burdens. Sleep and mental health are closely connected, further exacerbating the negative impact of sleep deficiency on overall health and [...]. [Read more](#). (This article belongs to the Special Issue **Nutraceutical Potential of Microalgae** (./journal/marinedrugs/special_issues/NutraceuticalPotential))


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Open Access Editorial  (1660-3397/20/8/492/pdf?version=1680182058)

Echinoderms Metabolites: Structure, Functions and Biomedical Perspectives II (1660-3397/20/8/492) by  Vladimir I. Kalinin (https://sciprofiles.com/profile/102483) and  Alexandra S. Silchenko (https://sciprofiles.com/profile/514611)

Mar. Drugs 2022, 20(8), 492; https://doi.org/10.3390/md20080492 (https://doi.org/10.3390/md20080492) - 29 Jul 2022
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Abstract Echinoderms belong to the phylum Echinodermata (from the Ancient Greek words "echinos" (hedgehog) and "derma" (skin)) [...]. [Full article](#) (1660-3397/20/8/492) (This article belongs to the Special Issue **Echinoderms Metabolites: Structure, Functions and Biomedical Perspectives II** (./journal/marinedrugs/special_issues/Echinoderms_Metabolites_II))


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




Potential for the Production of Carotenoids of Interest in the Polar Diatom *Fragilariopsis cylindrus* (1660-3397/20/8/491) by  Sébastien Guérin (https://sciprofiles.com/profile/2229622),  Laura Raguánés (https://sciprofiles.com/profile/author/Nnd0YU5vM3ZEckM4MzUzZWlobTJB25GZmdWl3A1NUx0aTdaM09RTm0wQTO=),  Dany Croteau (https://sciprofiles.com/profile/author/SHVZWGd4ak55VgQ3Q3ZMbzh5MHbVvHY5OGdpK1FBTFQyShc1Y1ISSC9DRT0=),  Marcel Babin (https://sciprofiles.com/profile/author/Q2hMYIA3SmhUUVKyTJNOa2JFmM0ZHBgYIVsTzBVd1CyeG0ZEJL3JIS10=) and  Johann Lavaud (https://sciprofiles.com/profile/author/VzJEdGhya2IRQ0QvVUMxQXISZ25UM0dnNORXMMwPDMiIS20vZnhMZWG4Zz0=)

Mar. Drugs 2022, 20(8), 491; https://doi.org/10.3390/md20080491 (https://doi.org/10.3390/md20080491) - 29 Jul 2022
Viewed by 1134

Abstract Carotenoid xanthophyll pigments are receiving growing interest in various industrial fields due to their broad and diverse bioactive and health beneficial properties. Fucoxanthin (Fx) and the inter-convertible couple diadinoxanthin–diatoxanthin (Ddx+Dtx) are acknowledged as some of the most promising xanthophylls; they are mainly synthesized [...]. [Read more](#). (This article belongs to the Section **Marine Biotechnology Related to Drug Discovery or Production** (./journal/marinedrugs/sections/marine_biotechnology_drug_discovery_production))

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Open Access Article  (1660-3397/20/8/490/pdf?version=1659926770)

Antioxidant Activity of Fucoidan Modified with Gallic Acid Using the Redox Method (1660-3397/20/8/490) by  Keylla Dayanne Coelho Marinho de Melo (https://sciprofiles.com/profile/2312669),  Lucas dos Santos Lisboa (https://sciprofiles.com/profile/author/ZIRlempFU0NBmJV1bk1BbENOZ0M3WGF6NzZLVk9VQINrRfDmVFRU09NOD0=),  Moacir Fernandes Queiroz (https://sciprofiles.com/profile/783788),  Weslley Souza Paiva (https://sciprofiles.com/profile/578055),  Ana Carolina Luchiani (https://sciprofiles.com/profile/author/OJVLelIDck5G7KJcUx8OEI3WHhvdS10U2MzI6WVGJ2UThzZWhTMZGVTO=),  Rafael Barros Gomes Camara (https://sciprofiles.com/profile/438178),  Leandro Silva Costa (https://sciprofiles.com/profile/85616) and  Hugo Alexandre Oliveira Rocha (https://sciprofiles.com/profile/306)

Mar. Drugs 2022, 20(8), 490; https://doi.org/10.3390/md20080490 (https://doi.org/10.3390/md20080490) - 29 Jul 2022
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Abstract Antioxidant compounds decrease the amount of intracellular reactive oxygen species (ROS) and, consequently, reduce the deleterious effects of ROS in osteoblasts. Here, we modified a 21 kDa fucoidan (FucA) with gallic acid (GA) using the redox method, to potentiate its antioxidant/protective capacity on [...]. [Read more](#). (This article belongs to the Special Issue **Algal Research: From Cultivation to Drugs** (./journal/marinedrugs/special_issues/Algal_Research))

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Open Access Article  (1660-3397/20/8/489/pdf?version=1659346043)

Synthesis, Characterization, and the Antioxidant Activity of Phenolic Acid Chitoooligosaccharide Derivatives (1660-3397/20/8/489)

by [Yan Sun](https://sciprofiles.com/profile/author/ZHhLYkPdGNPRE9GWIjRszZydGZ1ZUgxRi9kZGs4YjE3NC8yMmU2ME5WOD0=) (<https://sciprofiles.com/profile/author/ZHhLYkPdGNPRE9GWIjRszZydGZ1ZUgxRi9kZGs4YjE3NC8yMmU2ME5WOD0=>),
[Zhi-Shi](https://sciprofiles.com/profile/author/1881296) (<https://sciprofiles.com/profile/author/1881296>), [Jingmin Cui](https://sciprofiles.com/profile/author/Z3JKZ2Nac25nVEIZVTPmTmZnZ0UxUT09) (<https://sciprofiles.com/profile/author/Z3JKZ2Nac25nVEIZVTPmTmZnZ0UxUT09>),
[Yingqi Mi](https://sciprofiles.com/profile/481599) (<https://sciprofiles.com/profile/481599>), [Jingjing Zhang](https://sciprofiles.com/profile/843464) (<https://sciprofiles.com/profile/843464>) and
[Zhan Yong Guo](https://sciprofiles.com/profile/Z26374) (<https://sciprofiles.com/profile/Z26374>)
Mar. Drugs 2022, 20(8), 489; <https://doi.org/10.3390/md20080489> (<https://doi.org/10.3390/md20080489>) - 28 Jul 2022
Cited by 1 ([1660-3397/20/8/489#metrics](https://doi.org/10.3390/md20080489#metrics)) | Viewed by 905

Abstract A series of phenolic acid chitoooligosaccharide (COS) derivatives synthesized by two mild and green methods were illuminated in this paper. Seven phenolic acids were selected to combine two kinds of COS derivatives: the phenolic acid chitoooligosaccharide salt derivatives and the phenolic-acid-acylated chitoooligosaccharide derivatives. [...] [Read more.](#)

(This article belongs to the Collection [Marine Polysaccharides](#) ([/journal/marinedrugs/topical_collections/polysaccharides-2010](#)))

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Open Access Review

The Molecular Architecture of *Pseudomonas aeruginosa* Quorum-Sensing Inhibitors ([1660-3397/20/8/488](https://doi.org/10.3390/md20080488))

by [Qiaoqiang Li](https://sciprofiles.com/profile/author/b3FUaXdhTfHpk0JqeFpCU01EemhU3JCZTN4SjIkYnSSGRGZIRpaXNzQT0=) (<https://sciprofiles.com/profile/author/b3FUaXdhTfHpk0JqeFpCU01EemhU3JCZTN4SjIkYnSSGRGZIRpaXNzQT0=>),
[Shen Mao](https://sciprofiles.com/profile/author/emtU29VvIp4dXhGNuJhbDZka1B3eTB3QnMxR2iSaDhHNTFHwIcxRiNYRT0=) (<https://sciprofiles.com/profile/author/emtU29VvIp4dXhGNuJhbDZka1B3eTB3QnMxR2iSaDhHNTFHwIcxRiNYRT0=>),
[Hong Wang](https://sciprofiles.com/profile/402404) (<https://sciprofiles.com/profile/402404>) and [Xinyi Ye](https://sciprofiles.com/profile/2303034) (<https://sciprofiles.com/profile/2303034>)
Mar. Drugs 2022, 20(8), 488; <https://doi.org/10.3390/md20080488> (<https://doi.org/10.3390/md20080488>) - 28 Jul 2022
Cited by 3 ([1660-3397/20/8/488#metrics](https://doi.org/10.3390/md20080488#metrics)) | Viewed by 2113

Abstract The survival selection pressure caused by antibiotic-mediated bactericidal and bacteriostatic activity is one of the important inducements for bacteria to develop drug resistance. Bacteria gain drug resistance through spontaneous mutation so as to achieve the goals of survival and reproduction. Quorum sensing (QS) [...] [Read more.](#)

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Open Access Review

Microalgae Photo-Protectants and Related Bio-Carriers Loaded with Bioactive Entities for Skin Applications—An Insight of Microalgae Biotechnology ([1660-3397/20/8/487](https://doi.org/10.3390/md20080487))

by [Berenice Santiesteban-Romero](https://sciprofiles.com/profile/author/Z0lwa3FFQ2V4bytvMVcwFp2aFZmUjXNtZUR5cGVvNFd6SUlrd0tATU4RT0=) (<https://sciprofiles.com/profile/author/Z0lwa3FFQ2V4bytvMVcwFp2aFZmUjXNtZUR5cGVvNFd6SUlrd0tATU4RT0=>),
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[Roberto Parra-Saldivar](https://sciprofiles.com/profile/164151) (<https://sciprofiles.com/profile/164151>) and [Hafiz M. N. Iqbal](https://sciprofiles.com/profile/192237) (<https://sciprofiles.com/profile/192237>)
Mar. Drugs 2022, 20(8), 487; <https://doi.org/10.3390/md20080487> (<https://doi.org/10.3390/md20080487>) - 28 Jul 2022
Viewed by 3340

Abstract Microalgae are photosynthetic organisms known for producing valuable metabolites under different conditions such as extreme temperatures, high salinity, osmotic pressure, and ultraviolet radiation. In recent years, these metabolites have become a trend due to their versatility in applications such as pharmaceuticals, cosmetics, and [...] [Read more.](#)

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Open Access Article

Anti-inflammatory Polyketides from the Marine-Derived Fungus *Eutypella scoparia* ([1660-3397/20/8/486](https://doi.org/10.3390/md20080486))

by [Ya-Hui Zhang](https://sciprofiles.com/profile/793631) (<https://sciprofiles.com/profile/793631>),
[Hui-Fang Du](https://sciprofiles.com/profile/author/WkJKUeU3RmtsOGR6T2lOWp4d3VXL3Jib31aGJwWEZoSnuUyUitNd3VYQT0=) (<https://sciprofiles.com/profile/author/WkJKUeU3RmtsOGR6T2lOWp4d3VXL3Jib31aGJwWEZoSnuUyUitNd3VYQT0=>),
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[Fei Cao](https://sciprofiles.com/profile/116221) (<https://sciprofiles.com/profile/116221>) and [Chang-Yun Wang](https://sciprofiles.com/profile/326418) (<https://sciprofiles.com/profile/326418>)
Mar. Drugs 2022, 20(8), 486; <https://doi.org/10.3390/md20080486> (<https://doi.org/10.3390/md20080486>) - 28 Jul 2022
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Abstract Three new polyketides, eutyketides A and B (1 and 2) and cytosporin X (3), along with four known compounds (4–7), were obtained from the marine-derived fungus *Eutypella scoparia*. The planar structures of 1 and [...] [Read more.](#)

(This article belongs to the Special Issue [Bioactive Secondary Metabolites of Marine Fungi](#) ([/journal/marinedrugs/special_issues/MarineFungi2022](#)))

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MDPI Coral Holobionts Possess Distinct Lipid Profiles That May Be Shaped by Symbiodiniaceae Taxonomy (1660-3397/20/8/485)

by Tatyana V. Sikorskaya (https://sciprofiles.com/profile/1335891), Ekaterina V. Ermolenko (https://sciprofiles.com/profile/124765), Kseniya V. Efimova (https://sciprofiles.com/profile/author/ZWM0SHVzaFYXtnBocXhRY1poZmRvYkdGZTYyUXRvVjjeUraWZsaluRT0=) and Ly T. P. Dang (https://sciprofiles.com/profile/2320540)

Mar. Drugs 2022, 20(8), 485; https://doi.org/10.3390/md20080485 (https://doi.org/10.3390/md20080485) - 28 Jul 2022
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Abstract Symbiotic relationships are very important for corals. Abiotic stressors cause the acclimatization of cell membranes in symbionts, which possess different membrane acclimatization strategies. Membrane stability is determined by a unique lipid composition and, thus, the profile of thylakoid lipids can depend on coral [...] [Read more](#). (This article belongs to the Special Issue **Reef Ecology and Marine Drug Discovery** (/journal/marinedrugs/special_issues/coral_reef_ecology.))

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Two Foreign Antimicrobial Peptides Expressed in the Chloroplast of Porphyridium purpureum Possessed Antibacterial Properties (1660-3397/20/8/484)

by Subing Han (https://sciprofiles.com/profile/author/WE9pL0Y4Y2twbC9oZ25JVE1ST3VobmdrZ3didXJaSW45aGNsNXNEaEg1Yz0=), Jialin Zhao (https://sciprofiles.com/profile/author/STVCMtoTThwb0gxTHJrdFVsLzVBYW1HQWNGMml6NTZpbVJCMFBCVmxQTT0=), Ping Liu (https://sciprofiles.com/profile/author/ZHPMTII3c3Zp21dOK1REOVk4cnorT3JgZcCOXQWmwhRUnJZc3QrenVQT0=), Kang Wang (https://sciprofiles.com/profile/author/azVRGhXY1RTeHhRMzRTDdqdmvsaUZqbG03R3JZU1hzbGRkdHJUZVNgd0=), Song Qin (https://sciprofiles.com/profile/324011), Zhenjun Zhao (https://sciprofiles.com/profile/2816064) and Yulin Cui (https://sciprofiles.com/profile/2324570)

Mar. Drugs 2022, 20(8), 484; https://doi.org/10.3390/md20080484 (https://doi.org/10.3390/md20080484) - 28 Jul 2022
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Abstract To solve the problem of antibiotic abuse in aquaculture and to utilize the application potential of antimicrobial peptides (AMPs), a chloroplast transformation system of *Porphyridium purpureum* was successfully constructed for effectively expressing two exogenous AMPs. The endogenous fragments of 16S rDNA/trnA-23S [...] [Read more](#). (This article belongs to the Special Issue **Bio-Active Compounds from Algae** (/journal/marinedrugs/special_issues/bio_active_compounds_algae.))

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Preventive and Therapeutic Effects of Krill Oil on Obesity and Obesity-Induced Metabolic Syndromes in High-Fat Diet-Fed Mice (1660-3397/20/8/483)

by Seung-Min Hwang (https://sciprofiles.com/profile/author/RjFHVXNjbDdTYUJoafXcGhyRTThpdGFOTVJ0TC9PZ25VhHxQVRxNDVrd0=), Yeong-Uk Kim (https://sciprofiles.com/profile/2288458), Jiwon-Kyu Kim (https://sciprofiles.com/profile/author/dHhUkg0TEgWQWcyVHlaV0hHOVIRORCdTM5c1RuOHVOQWIHT29uUJRNRT0=), Yoon-Seok Chun (https://sciprofiles.com/profile/author/Sk40TUkyTC9zRjhzV3BxUzR3dzRma2h0M1FHc1U3QXZUJhVVRXBmDWRWS0=), Young-Sam Kwon (https://sciprofiles.com/profile/1410390), Sae-Kwang Ku (https://sciprofiles.com/profile/1359687) and Chang-Hyun Song (https://sciprofiles.com/profile/513928)

Mar. Drugs 2022, 20(8), 483; https://doi.org/10.3390/md20080483 (https://doi.org/10.3390/md20080483) - 27 Jul 2022
Cited by 1 (1660-3397/20/8/483#metrics) | Viewed by 1508

Abstract Obesity increases the risks of metabolic syndromes including nonalcoholic fatty liver disease (NAFLD), diabetic dyslipidemia, and chronic kidney disease. Dietary krill oil (KO) has shown antioxidant and anti-inflammatory properties, thereby being a therapeutic potential for obesity-induced metabolic syndromes. Thus, the effects of KO [...] [Read more](#). (This article belongs to the Special Issue **Marine Antioxidants 2022** (/journal/marinedrugs/special_issues/Marine_Antioxidants_2022.))

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Heteronemin and Tetrac Induce Anti-Proliferation by Blocking EGFR-Mediated Signaling in Colorectal Cancer Cells (1660-3397/20/8/482)

by Sukanya Unson (https://sciprofiles.com/profile/author/STZQb0ozc2gzvzJIR1RkOE9YaUVINEdHaTKJdWYrZnUzZkxxNmscxmpvVT0=), Tung-Cheng Chang (https://sciprofiles.com/profile/author/K1d4NzBRTFNaZVQkTHpyYk9GTzJlckJ0Mn1MXJNumisOUFOdnArMuP0TQ0=), Yung-Ning Yang (https://sciprofiles.com/profile/author/d1JoRkQ1MVBCg3V0Nk10GpmZm1NL2F6YnWwIQzNmZiVt1CS0NpOFhGND0=), Shwu-Huey Wang (https://sciprofiles.com/profile/author/MEcwoXdmS2dwdVR3NGU4Wk1BOHNGT09), Chi-Hung Huang (https://sciprofiles.com/profile/author/NVf5VkhQTUzMUhU9kZm5Vem9ydgJWWHNZR3RmXZ2Ym1DWWVQS3Z6d0=), Dana R. Crawford (https://sciprofiles.com/profile/author/V1F1M1VQdGdFQ1RZU1d8dk9NDVMZz09), Haw-Ming Huang (https://sciprofiles.com/profile/264442), Zi-Lin Li (https://sciprofiles.com/profile/author/RzYzel2OQ2JLNXJ1WUvzcEi3NWajdrNjk4K3J0VBNmFbnNtb1nYz0=), Hsueh-Yun Lin (https://sciprofiles.com/profile/279387), Jacqueline Whang-Peng (https://sciprofiles.com/profile/810862), Kuan Wang (https://sciprofiles.com/profile/author/cGpFmxoQW51NE45SkNUekZJlUk03bz6NCsyeE1WV95V2FSZ1dWE41TT0=), Paul J. Davis (https://sciprofiles.com/profile/484780) and Wen-Shan Li (https://sciprofiles.com/profile/1368657)

Mar. Drugs 2022, 20(8), 482; https://doi.org/10.3390/md20080482 (https://doi.org/10.3390/md20080482) - 27 Jul 2022
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Abstract Overexpressed EGFR and mutant K-Ras play vital roles in therapeutic resistance in colorectal cancer patients. To search for an effective therapeutic protocol is an urgent task. A secondary metabolite in the sponge *Hippospongia* sp., Heteronemin, has been shown to induce anti-proliferation in several [...] [Read more](#). (This article belongs to the Special Issue **Development and Application of Marine-Derived Anti-cancer Agents** (/journal/marinedrugs/special_issues/Marine_Derived_Anticancer_Agents.))

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Cosmetic Potential of Pigments Extracts from the Marine Cyanobacterium *Cyanobium* sp. (1660-3397/20/8/481)

by Fernando Pagels (https://sciprofiles.com/profile/1627938), Cintia Almeida (https://sciprofiles.com/profile/2005500), Vitor Vasconcelos (https://sciprofiles.com/profile/106) and A. Catarina Guedes (https://sciprofiles.com/profile/126219)

Mar. Drugs 2022, 20(8), 481; https://doi.org/10.3390/md20080481 (https://doi.org/10.3390/md20080481) - 27 Jul 2022
Cited by 4 (1660-3397/20/8/481#metrics) | Viewed by 1392

Abstract The current mindset in the cosmetics market about sustainable ingredients had increased the search for new sources of natural active ingredients. Cyanobacteria are a great source of functional ingredients for cosmetics, as a producer of pigments with described bioactive potential (carotenoids and phycobiliproteins). [...] [Read more](#).

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Open Access Review

1660-3397/20/8/480/pdf?version=1658920303

Novel Drug and Gene Delivery System and Imaging Agent Based on Marine Diatom Biosilica Nanoparticles (1660-3397/20/8/480)

by [Hanaa Ali Hussein](https://sciprofiles.com/profile/950052) (https://sciprofiles.com/profile/950052), [Muhammad Shahid Nazir](https://sciprofiles.com/profile/2340341) (https://sciprofiles.com/profile/2340341), [Nizakat Azra](https://sciprofiles.com/profile/author/TUJhdS9FQWVQOTF6UnV4SVhjJEMvL3FYbm9ZnzFhblIUZwdHTkNEUkdNcz0e) (https://sciprofiles.com/profile/author/TUJhdS9FQWVQOTF6UnV4SVhjJEMvL3FYbm9ZnzFhblIUZwdHTkNEUkdNcz0e), [Zeenat Qamar](https://sciprofiles.com/profile/2338006) (https://sciprofiles.com/profile/2338006), [Azman Seeni](https://sciprofiles.com/profile/2337925) (https://sciprofiles.com/profile/2337925), [Tengku Ahmad Damtri Al-Astani Tengku Din](https://sciprofiles.com/profile/1392264) (https://sciprofiles.com/profile/1392264) and [Mohd Azmuddin Abdullah](https://sciprofiles.com/profile/2252750) (https://sciprofiles.com/profile/2252750) *Mar. Drugs* 2022, 20(8), 480; <https://doi.org/10.3390/md20080480> (https://doi.org/10.3390/md20080480) - 27 Jul 2022
Cited by 4 (1660-3397/20/8/480#metrics) | Viewed by 1616

Abstract Mesoporous silica nanoparticles (MSNs) have great potential for applications as a drug delivery system (DDS) due to their unique properties such as large pore size, high surface area, biocompatibility, biodegradability, and stable aqueous dispersion. The MSN-mediated DDS can carry chemotherapeutic agents, optical sensors, [...] [Read more](#).

(This article belongs to the Special Issue **Pharmaceutical, Nutraceutical, Cosmeceutical and Biotechnological Potentials of Southeast Asian Marine Resources** (Journal/marinedrugs/special_issues/Southeast_Asian_Marine_Resources))

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Cloning and Characterization of a Novel Endo-Type Metal-Independent Alginate Lyase from the Marine Bacteria *Vibrio* sp. Ni1 (1660-3397/20/8/479)

by [Li Sha](https://sciprofiles.com/profile/2305676) (https://sciprofiles.com/profile/2305676), [Minghai Huang](https://sciprofiles.com/profile/author/NGVhdFcybDVvbXVjcWRNeHBgRDhOQ1NZNZCZWThiRWl1d0TUJxcUCZKOD0e) (https://sciprofiles.com/profile/author/NGVhdFcybDVvbXVjcWRNeHBgRDhOQ1NZNZCZWThiRWl1d0TUJxcUCZKOD0e), [Xiaonan Huang](https://sciprofiles.com/profile/author/dXRpS3FRUswOHdMc2hJUUR0b3JKQTO9) (https://sciprofiles.com/profile/author/dXRpS3FRUswOHdMc2hJUUR0b3JKQTO9), [Yongtong Huang](https://sciprofiles.com/profile/author/R3NGd0RqcVdIM0kyQXlwZ05BbUdJQmJuWDM2S1Y4QXhVWFpLQ2NRK2xnWT0e) (https://sciprofiles.com/profile/author/R3NGd0RqcVdIM0kyQXlwZ05BbUdJQmJuWDM2S1Y4QXhVWFpLQ2NRK2xnWT0e), [Ensi Shao](https://sciprofiles.com/profile/1021062) (https://sciprofiles.com/profile/1021062), [Xiong Guan](https://sciprofiles.com/profile/317470) (https://sciprofiles.com/profile/317470) and [Zhipeng Huang](https://sciprofiles.com/profile/1022169) (https://sciprofiles.com/profile/1022169) *Mar. Drugs* 2022, 20(8), 479; <https://doi.org/10.3390/md20080479> (https://doi.org/10.3390/md20080479) - 26 Jul 2022
Cited by 1 (1660-3397/20/8/479#metrics) | Viewed by 814

Abstract The applications of alginate lyase are diverse, but efficient commercial enzymes are still unavailable. In this study, a novel alginate lyase with high activity was obtained from the marine bacteria *Vibrio* sp. Ni1. The ORF of the *algB* gene has 1824 bp, [...] [Read more](#).

(This article belongs to the Section **Biomaterials of Marine Origin** (Journal/marinedrugs/sections/biomaterials_marine_origin))

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Genome Mining as an Alternative Way for Screening the Marine Organisms for Their Potential to Produce UV-Absorbing Mycosporine-like Amino Acid (1660-3397/20/8/478)

by [Nedeljka Rosic](https://sciprofiles.com/profile/869994) (https://sciprofiles.com/profile/869994) *Mar. Drugs* 2022, 20(8), 478; <https://doi.org/10.3390/md20080478> (https://doi.org/10.3390/md20080478) - 26 Jul 2022
Viewed by 1328

Abstract Mycosporine-like amino acids (MAAs) are small molecules with robust ultraviolet (UV)-absorbing capacities and a huge potential to be used as an environmentally friendly natural sunscreen. MAAs, temperature, and light-stable compounds demonstrate powerful photoprotective capacities and the ability to capture light in the UV-A [...] [Read more](#).

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1660-3397/20/8/477/pdf?version=1659427288

Therapeutic Potential of Marine Bioactive Peptides against Human Immunodeficiency Virus: Recent Evidence, Challenges, and Future Trends (1660-3397/20/8/477)

by [Jameel Mohammed Al-Khayri](https://sciprofiles.com/profile/1179139) (https://sciprofiles.com/profile/1179139), [Waqas Asghar](https://sciprofiles.com/profile/1395350) (https://sciprofiles.com/profile/1395350), [Sipper Khan](https://sciprofiles.com/profile/1342325) (https://sciprofiles.com/profile/1342325), [Aqsa Akhtar](https://sciprofiles.com/profile/2290660) (https://sciprofiles.com/profile/2290660), [Haris Ayub](https://sciprofiles.com/profile/1118178) (https://sciprofiles.com/profile/1118178), [Fatima Mohammed Alessa](https://sciprofiles.com/profile/author/UFJKYUE0SS9okk9HeW5OZjFSVlGaW1lSnZS5YnkeWpYUJYVnd1VdHkUT0e) (https://sciprofiles.com/profile/author/UFJKYUE0SS9okk9HeW5OZjFSVlGaW1lSnZS5YnkeWpYUJYVnd1VdHkUT0e), [Muneera Qassim Al-Massalleem](https://sciprofiles.com/profile/1401253) (https://sciprofiles.com/profile/1401253), [Adel Abdel-Sabour Rezk](https://sciprofiles.com/profile/1958936) (https://sciprofiles.com/profile/1958936) and [Wael Fathi Shehata](https://sciprofiles.com/profile/2374640) (https://sciprofiles.com/profile/2374640) *Mar. Drugs* 2022, 20(8), 477; <https://doi.org/10.3390/md20080477> (https://doi.org/10.3390/md20080477) - 25 Jul 2022
Cited by 2 (1660-3397/20/8/477#metrics) | Viewed by 1158

Abstract Acquired immunodeficiency syndrome (AIDS) is a chronic and potentially fatal ailment caused by the human immunodeficiency virus (HIV) and remains a major health problem worldwide. In recent years, the research focus has shifted to a greater emphasis on complementing treatment regimens involving conventional [...] [Read more](#). (This article belongs to the Section **Synthesis and Medicinal Chemistry of Marine Natural Products** /journal/marinedrugs/sections/synthesis_medical_chemistry_marine_natural_products)

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Impact of Degree of Ionization and PEGylation on the Stability of Nanoparticles of Chitosan Derivatives at Physiological Conditions (1660-3397/20/8/476)

by [André Miguel Martínez Junior](https://sciprofiles.com/profile/author/MXlobc3K1FFemRWUE96a1E2dk1ON093cT16RU4wc3pEtKFaqm0R0WZ5ST0) (<https://sciprofiles.com/profile/author/MXlobc3K1FFemRWUE96a1E2dk1ON093cT16RU4wc3pEtKFaqm0R0WZ5ST0>),

[Aline Margarete Furuyama Lima](https://sciprofiles.com/profile/author/Z3lhS3VrcFFNRkFXUFNJOU5p5VjFWaUNkUdrSmJNOVBIUtdyZEZvbE5nL3cyR0VvYURGUmdGN3B1UgHBcU1JNQ==) (<https://sciprofiles.com/profile/author/Z3lhS3VrcFFNRkFXUFNJOU5p5VjFWaUNkUdrSmJNOVBIUtdyZEZvbE5nL3cyR0VvYURGUmdGN3B1UgHBcU1JNQ==>)

[Grazieli Olinda Martins](https://sciprofiles.com/profile/author/M0ZUWU5JSTlEtJoYXQrTzE1azVUZkzaEoSUWF4ZEVyRDl3bXF6eGxHST0) (<https://sciprofiles.com/profile/author/M0ZUWU5JSTlEtJoYXQrTzE1azVUZkzaEoSUWF4ZEVyRDl3bXF6eGxHST0>),

[Vera Aparecida de Oliveira Tiera](https://sciprofiles.com/profile/780826) (<https://sciprofiles.com/profile/780826>), [Mohamed Randerdour](https://sciprofiles.com/profile/2345994) (<https://sciprofiles.com/profile/2345994>),

[Julio Cesar Fernandes](https://sciprofiles.com/profile/2166530) (<https://sciprofiles.com/profile/2166530>) and [Marcio José Tiera](https://sciprofiles.com/profile/2283023) (<https://sciprofiles.com/profile/2283023>)

Mar. Drugs **2022**, *20*(8), 476; <https://doi.org/10.3390/md20080476> (<https://doi.org/10.3390/md20080476>) - 25 Jul 2022

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Abstract Nowadays, the therapeutic efficiency of small interfering RNAs (siRNA) is still limited by the efficiency of gene therapy vectors capable of carrying them inside the target cells. In this study, siRNA nanocarriers based on low molecular weight chitosan grafted with increasing proportions (5 [...] [Read more](#).

(This article belongs to the Special Issue **Designing Therapeutic Nanoplatfroms from Marine-Derived Materials** (/journal/marinedrugs/special_issues/Designing_Therapeutic_Nanoplatfroms))

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New Carboxamides and a New Polyketide from the Sponge-Derived Fungus *Arthrinium* sp. SCSIO 41421 (1660-3397/20/8/475)

by [Jianglian She](https://sciprofiles.com/profile/author/Vjc4aTFhWG5ZODEzSzkFkdlVRdttT2x4VmI2aTRWVGJrNVBqZFkvc2pPST0) (<https://sciprofiles.com/profile/author/Vjc4aTFhWG5ZODEzSzkFkdlVRdttT2x4VmI2aTRWVGJrNVBqZFkvc2pPST0>),

[Yi Chen](https://sciprofiles.com/profile/NHl3V3cwM2lKNXhsYmcvQRpSuzFcxXVKSUN1TmkNTFDU1VENWFdJhpLJT0) (<https://sciprofiles.com/profile/NHl3V3cwM2lKNXhsYmcvQRpSuzFcxXVKSUN1TmkNTFDU1VENWFdJhpLJT0>),

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[Xiuping Lin](https://sciprofiles.com/profile/author/dEpGyKz0aTBQdy92c3NwK09zY9lZ2krVUp6R3d0T1g1UDBZMFpgeDVPdz0) (<https://sciprofiles.com/profile/author/dEpGyKz0aTBQdy92c3NwK09zY9lZ2krVUp6R3d0T1g1UDBZMFpgeDVPdz0>),

[Bin Yang](https://sciprofiles.com/profile/672154) (<https://sciprofiles.com/profile/672154>), [Jiao Xiao](https://sciprofiles.com/profile/457947) (<https://sciprofiles.com/profile/457947>), [Yonghong Liu](https://sciprofiles.com/profile/18618) (<https://sciprofiles.com/profile/18618>) and

[Xuefeng Zhou](https://sciprofiles.com/profile/73209) (<https://sciprofiles.com/profile/73209>)

Mar. Drugs **2022**, *20*(8), 475; <https://doi.org/10.3390/md20080475> (<https://doi.org/10.3390/md20080475>) - 25 Jul 2022

Cited by 2 (1660-3397/20/8/475#metrics) | Viewed by 859

Abstract New carboxamides, (±)-vochysiamide C (1) and (+)-vochysiamide B (2), and a new polyketide, 4S,3aS,9aR-3a,9a-deoxy-3a hydroxy-1-dehydroxyarthrinone (3), were isolated and identified from the sponge-derived fungus *Arthrinium* sp. SCSIO 41421, together with other [...] [Read more](#).

(This article belongs to the Special Issue **Bioactive Compounds from the Deep-Sea-Derived Microorganisms** (/journal/marinedrugs/special_issues/Deep_Sea_Derived_Microorganisms))

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📄 (1660-3397/20/8/474/pdf?version=1659441132) 🔍

Antraquinones and Their Analogues from Marine-Derived Fungi: Chemistry and Biological Activities (1660-3397/20/8/474)

by [Salar Hafez Ghoran](https://sciprofiles.com/profile/1501025) (<https://sciprofiles.com/profile/1501025>), [Fatemeh Taktaz](https://sciprofiles.com/profile/96680) (<https://sciprofiles.com/profile/96680>),

[Seyad Abdulmajid Ayatollahi](https://sciprofiles.com/profile/author/QkYrdEFCOCICN25VOEFRSzbAZnZUFpXkU9HWVUvOTh6TTFdVBcSno0RT0) (<https://sciprofiles.com/profile/author/QkYrdEFCOCICN25VOEFRSzbAZnZUFpXkU9HWVUvOTh6TTFdVBcSno0RT0>) and

[Anake Kijjoa](https://sciprofiles.com/profile/10600) (<https://sciprofiles.com/profile/10600>)

Mar. Drugs **2022**, *20*(8), 474; <https://doi.org/10.3390/md20080474> (<https://doi.org/10.3390/md20080474>) - 25 Jul 2022

Cited by 5 (1660-3397/20/8/474#metrics) | Viewed by 2436


Abstract Anthraquinones are an interesting chemical class of polyketides since they not only exhibit a myriad of biological activities but also contribute to managing ecological roles. In this review article, we provide a current knowledge on the anthraquinoids reported from marine-derived fungi, isolated from [...] [Read more](#).

(This article belongs to the Special Issue **Pharmaceutical, Nutraceutical, Cosmeceutical and Biotechnological Potentials of Southeast Asian Marine Resources** (/journal/marinedrugs/special_issues/Southeast_Asian_Marine_Resources))




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Matairesinol Induces Mitochondrial Dysfunction and Exerts Synergistic Anticancer Effects with 5-Fluorouracil in Pancreatic Cancer Cells (1660-3397/20/8/473)

by  Woonghee Lee (https://sciprofiles.com/profile/1803420),  Gwonhwa Song (https://sciprofiles.com/profile/709343) and  Hyecheol Bae (https://sciprofiles.com/profile/2299307)

Mar. Drugs 2022, 20(8), 473; <https://doi.org/10.3390/md20080473> (https://doi.org/10.3390/md20080473) - 25 Jul 2022
Cited by 4 (1660-3397/20/8/473#metrics) | Viewed by 1099


Abstract Pancreatic ductal adenocarcinoma (PDAC) is one of the most aggressive types of cancer and exhibits a devastating 5-year survival rate. The most recent procedure for the treatment of PDAC is a combination of several conventional chemotherapeutic agents, termed FOLFIRINOX, that includes irinotecan, leucovorin, [...] [Read more](#).
(This article belongs to the Special Issue **Pharmacological Activity and Biomedical Potential of Marine Antitumor Agents** ([/journal/marinedrugs/special_issues/Pharmacological_Activity_Biomedical_Potential_Marine_Antitumor_Agents](#)))





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
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Expression Plasticity of Peroxisomal Acyl-Coenzyme A Oxidase Genes Implies Their Involvement in Redox Regulation in Scallops Exposed to PST-Producing *Alexandrium* (1660-3397/20/8/472)

by  Moli Li (https://sciprofiles.com/profile/2308736).

 Yangrui Wang (https://sciprofiles.com/profile/author/Z2pvSTZrdlNncFQ2vKfSREkzR3NhUm5XWm5Rl2hoVzhoOHmMVY2SURNST0=),  Zhihong Tang (https://sciprofiles.com/profile/author/RzE1OULqLzR1MDBVUVZiXVIRW5tMwYwTEF2MFqWZndj4lLZk4rSzJIRT0=),  Huizhen Wang (https://sciprofiles.com/profile/2013652),  Jingjie Hu (https://sciprofiles.com/profile/2185392),

 Zhenmin Bao (https://sciprofiles.com/profile/476655) and  Xiaoli Hu (https://sciprofiles.com/profile/886611)
Mar. Drugs 2022, 20(8), 472; <https://doi.org/10.3390/md20080472> (https://doi.org/10.3390/md20080472) - 24 Jul 2022
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Abstract Filter-feeding bivalves can accumulate paralytic shellfish toxins (PST) produced by toxic microalgae, which may induce oxidative stress and lipid peroxidation. Peroxisomal acyl-coenzyme A oxidases (ACOXs) are key enzymes functioning in maintaining redox and lipid homeostasis, but their roles in PST response in bivalves [...] [Read more](#).
(This article belongs to the Special Issue **Chemical Defense in Marine Organisms II** ([/journal/marinedrugs/special_issues/Chemical_Defense_II](#)))




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



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Isolation and Characterization of Efficient Active Compounds Using High-Performance Centrifugal Partition Chromatography (CPC) from Anti-Inflammatory Activity Fraction of *Ecklonia maxima* in South Africa (1660-3397/20/8/471)

by  Hyun-Soo Kim (https://sciprofiles.com/profile/928476).

 Jun-Geon Je (https://sciprofiles.com/profile/author/TUhoRFhEYnFzZnNzXorOGZ2akhtV042NIRLSUZ0bnJrTxFxTUpeNjdFcz0=),  Hyesuck An (https://sciprofiles.com/profile/author/NJTRepwSWwzYIpyVXIRS0dNNXZEY29sN3paVXi4YU4yYIpuRDhTdHdYND0=),  Kyunghwa Baek (https://sciprofiles.com/profile/2447478).

 Jeong Min Lee (https://sciprofiles.com/profile/author/ZmJRZVdqWUk4QW1WREJDNXpRbWkZjdVWlmSjZVUJIMVA3dzYcXp6OD0=),  Mi-Jin Yim (https://sciprofiles.com/profile/author/L0t3MUJ0V0QzZERCNZNVWkp4eGJXZ2VMWmE1bi9MeUxMGUk3NyM0R0Vt0=),  Seok-Chun Ko (https://sciprofiles.com/profile/author/bUZmK2xFMedrelY0UUIXbm0vdBQ01czaF0STFVvYs01wa2ZnCEZART0=),


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Mar. Drugs 2022, 20(8), 471; <https://doi.org/10.3390/md20080471> (https://doi.org/10.3390/md20080471) - 23 Jul 2022
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Abstract *Ecklonia maxima* is a brown seaweed, which is abundantly distributed in South Africa. This study investigated an efficient approach using high-performance centrifugal partition chromatography (HPCPC), which has been successfully developed for the isolation and purification of phlorotannins, eckmaxol, and dieckol from the ethyl [...] [Read more](#).
(This article belongs to the Special Issue **Bio-Active Compounds from Algae** ([/journal/marinedrugs/special_issues/bio_active_compounds_algae](#)))





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Sulfated Glucan from the Green Seaweed *Caulerpa sertularioides* Inhibits Adipogenesis through Suppression of Adipogenic and Lipogenic Key Factors (1660-3397/20/8/470)

by  Gildacio Pereira Chaves Filho (https://sciprofiles.com/profile/author/T1JKUWQ0MIZLWdIeIvJbIDU1Y1VIOVpvY3RkK3dQaCtZsJfRsk9TST0=).

 Lucas Alighieri Neves Costa Batista (https://sciprofiles.com/profile/author/bkNzQV0e0m5CVG5uTmFBSXFIOQ2KZihGNjYtZucEdSeFIVejdRUCURNcz0E=),  Silvia Regina Batistuzzo de Medeiros (https://sciprofiles.com/profile/author/YWhRTWFq3RYVkJSQnIUzjNFpSTVUWHhJYmNPOFQ2UfPBMFhbsm5MVt0=),  Hugo Alexandre Oliveira Rocha (https://sciprofiles.com/profile/306) and  Susana Margarida Gomes Moreira (https://sciprofiles.com/profile/2318539)

Mar. Drugs 2022, 20(8), 470; <https://doi.org/10.3390/md20080470> (https://doi.org/10.3390/md20080470) - 23 Jul 2022
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Abstract Sulfated polysaccharides (SPS) from seaweeds have great biochemical and biotechnological potential. This study aimed to investigate the effect of SPS isolated from the seaweed *Caulerpa sertularioides* on adipogenic differentiation as a possible alternative treatment for obesity. The SPS-rich extract from the seaweed C. [...] [Read more](#).

(This article belongs to the Special Issue **Marine Drugs Research in Brazil** (/Journal/marinedrugs/special_issues/HH811XQ093.))

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





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Depolymerized Fractions of Sulfated Galactans Extracted from *Gracilaria fisheri* and Their Antibacterial Activity against *Vibrio parahaemolyticus* and *Vibrio harveyi* (1660-3397/20/8/469)

by  **Manoj Tukaram Kamble** (https://sciprofiles.com/profile/754021),  **Tawut Rudtanatip** (https://sciprofiles.com/profile/1494228),  **Chumporn Soowanayan** (https://sciprofiles.com/profile/author/c1BMUEZUZIILSmVqUFBRTeOrNktVkvYvcVv3c05BRW5oOCTmUIdrcnZTQT0=),  **Bootoh Nambunruang** (https://sciprofiles.com/profile/2352226),  **Seema Vijay Medhe** (https://sciprofiles.com/profile/author/Tno2VWE4ZDd4N3g4TktEZHI2SWMzc0FyMG9ncDVTSINLdWsyMGpHUEp3Zz0=) and  **Kanokpan Wongprasert** (https://sciprofiles.com/profile/821268)

Mar. Drugs **2022**, *20*(8), 469; https://doi.org/10.3390/md20080469 (https://doi.org/10.3390/md20080469) - 23 Jul 2022

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Abstract Various seaweed sulfated polysaccharides have been explored for antimicrobial application. This study aimed to evaluate the antibacterial activity of the native *Gracilaria fisheri* sulfated galactans (NSG) and depolymerized fractions against the marine pathogenic bacteria *Vibrio parahaemolyticus* and *Vibrio harveyi*. NSG was hydrolyzed [...] **Read more.**

(This article belongs to the Special Issue **Algal Research: From Cultivation to Drugs** (/Journal/marinedrugs/special_issues/Algal_Research))

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Anti-Aging Effects of R-Phycocyanin from *Porphyra haitanensis* on HUVEC Cells and *Drosophila melanogaster* (1660-3397/20/8/468)

by  **Yanyu Feng** (https://sciprofiles.com/profile/author/TVNVODUxaTdvM1ZnOUY3NFhUJZJCSDMvRTBCZHVVVldEdXQyZFBTWhGRT0=),  **Hanjin Lu** (https://sciprofiles.com/profile/author/aVd3NW1xlY9YNFNmS1ZRZmthNG43U2kvb3JzOFlVc2NuSXZMTkpWdlEzST0=),  **Jiamiao Hu** (https://sciprofiles.com/profile/745088),  **Baodong Zheng** (https://sciprofiles.com/profile/197309) and  **Yi Zhang** (https://sciprofiles.com/profile/692679)

Mar. Drugs **2022**, *20*(8), 468; https://doi.org/10.3390/md20080468 (https://doi.org/10.3390/md20080468) - 22 Jul 2022

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Abstract Aging has become a global public health challenge. Many studies have revealed that the excessive generation of ROS and oxidative stress could be the major causative factors contributing to aging. In this study, R-phycocyanin (R-PC) was isolated from *Porphyra haitanensis*, and its [...] **Read more.**



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Supplementation with *Spirulina platensis* Prevents Damage to Rat Erections in a Model of Erectile Dysfunction Promoted by Hypercaloric Diet-Induced Obesity (1660-3397/20/8/467)

by  **Iara Leão Luna de Souza** (https://sciprofiles.com/profile/977297),  **Bárbara Cavalcanti Barros** (https://sciprofiles.com/profile/author/NOZsV3ptUnJNMThXOGhMZ1ZGbmNYNzFInErMhCWHZyMmVoNzRmY0IIZz0=),  **Elba dos Santos Ferreira** (https://sciprofiles.com/profile/author/RkxNV0hNUetoZXRyYUxINXVZKWRXRMNwVcTFZ0TRBOWpLNHMxOG4xRUszYz0=),  **Fernando Ramos Queiroga** (https://sciprofiles.com/profile/author/MFZnUmFwdFhUeEVPV3hVS05pOTUweVJUcSsZaGg2OHZJQIZIVk9Wb2zRTT0=),  **Luiz Henrique César Vasconcelos** (https://sciprofiles.com/profile/author/eG41Q056anRleVdWR2VkovJRGxwWctNMUJGvKY1ZCvMEIzNVZMRDMzRT0=),  **Lydiane de Lima Tavares Toscano** (https://sciprofiles.com/profile/author/VVE5RWpES2tianRYOE9mb3F2UVYzeHdZMDU5b2JYJTEUuVU0=),  **Alexandre Sérgio Silva** (https://sciprofiles.com/profile/155280),  **Patrícia Mirella da Silva** (https://sciprofiles.com/profile/author/YjEIK0JmcGsyahU4ZERNa2tjQkFwWh2My9Fck1Dd1dhRmh2VHhVQvK0D0=), and  **Fabiana de Andrade Cavalcante** (https://sciprofiles.com/profile/89326) and  **Bagnólia Araújo da Silva** (https://sciprofiles.com/profile/882981)

Mar. Drugs **2022**, *20*(8), 467; https://doi.org/10.3390/md20080467 (https://doi.org/10.3390/md20080467) - 22 Jul 2022

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Abstract Erectile dysfunction (ED) is the inability to achieve and/or maintain a penile erection sufficient for sexual satisfaction. Currently, many patients do not respond to the pharmacotherapy. The effects of a supplementation with *Spirulina platensis*, were evaluated in a model of ED induced [...] **Read more.**








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Therapeutic Potential of Marine Peptides in Prostate Cancer: Mechanistic Insights (1660-3397/20/8/466)

by  **Salman Ahmed** (https://sciprofiles.com/profile/868364),  **Waqas Alam** (https://sciprofiles.com/profile/1739957),  **Philippe Jeandet** (https://sciprofiles.com/profile/48183),  **Michael Aschner** (https://sciprofiles.com/profile/11443),  **Khalaf F. Alsharif** (https://sciprofiles.com/profile/1644787),  **Luciano Saso** (https://sciprofiles.com/profile/420194) and  **Haron Khan** (https://sciprofiles.com/profile/1056383)

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Abstract Prostate cancer (PCa) is the leading cause of cancer death in men, and its treatment is commonly associated with severe adverse effects. Thus, new treatment modalities are required. In this context, natural compounds have been widely explored for their anti-PCa properties. Aquatic organisms [...] **Read more.**

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Article

Carrageenophyte *Kappaphycus malesianus* Inhibits Microglia-Mediated Neuroinflammation via Suppression of AKT/NF- κ B and ERK Signaling Pathways

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Abstract: Neuroinflammation is an inflammatory response in any part of the central nervous system triggered by the activation of microglia and astrocytes to produce proinflammatory cytokines in the brain. However, overproduction of proinflammatory cytokines further contributes to the development of neurodegenerative disorders. Red seaweed, *Kappaphycus malesianus*, is a predominant carrageenophyte commercially cultivated in Semporna, Sabah, Malaysia. It is an important source of raw material for kappa-carrageenan productions in the food, pharmaceutical and cosmetics industries. However, no studies have been conducted focusing on the antineuroinflammatory effects of *K. malesianus*. The aim of the present study was to investigate the effect of the antineuroinflammatory activity of *K. malesianus* extracts (ethyl acetate, ethanol and methanol) on lipopolysaccharide-stimulated BV2 microglia and the underlying mechanisms involved in the regulation of neuroinflammatory pathways. Extract with the most promising antineuroinflammatory activity was analyzed using liquid chromatography-mass spectrometry (LC-MS). Our results show that methanol extract has a convincing antineuroinflammatory effect by suppressing both AKT/NF- κ B and ERK signaling pathways to inhibit the expression of all proinflammatory cytokines without causing a cytotoxicity effect. LC-MS analysis of methanol extract revealed two compounds: prosopinine and eplerenone. Our findings indicated that metabolites of *K. malesianus* are potent antineuroinflammatory agents with respect to prevention of neurological disorders.

Keywords: red seaweed; BV2 microglia; antineuroinflammatory; neuroprotective; proinflammatory cytokines; local breeds; sustainable



Citation: Lai, N.J.-Y.; Ngu, E.-L.; Pang, J.-R.; Wong, K.-H.; Ardianto, C.; Ming, L.C.; Lim, S.-H.; Walvekar, S.G.; Anwar, A.; Yow, Y.-Y.

Carrageenophyte *Kappaphycus malesianus* Inhibits Microglia-Mediated Neuroinflammation via Suppression of AKT/NF- κ B and ERK Signaling Pathways. *Mar. Drugs* **2022**, *20*, 534. <https://doi.org/10.3390/md20080534>

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1. Introduction

The global average life expectancy has increased due to advanced medical treatments and technologies. According to Our World in Data, the median age of the global population has increased from 21.5 years to 30 years in the past 49 years [1]. However, population aging has led to a steep increase in age-related diseases, such as dementia. Research by Feigin et al. on the global burden of diseases, injuries, and risk factors (GDB) estimated that there are almost 44 million people affected by dementia globally, which has more than doubled since 1990 [2]. Neurodegenerative diseases are one among the most common causes of dementia, including Alzheimer's, Parkinson's and Huntington's diseases, as well as several types of multiple sclerosis [3]. As there is no disease-modifying treatment for these disorders, our current interest is various seaweed-derived phytochemicals as potential treatment options [4].

Chronic neuroinflammation is closely related to neurodegenerative diseases. The persistent production of proinflammatory mediators or cytokines, such as nitric oxide (NO), cyclooxygenase-2 (COX-2), tumor necrosis factor (TNF)- α , interleukin (IL)-1 and IL-6, exacerbates neuroinflammation, causing neuronal damage and further leading to neurodegenerative diseases [5,6]. The expression of these proinflammatory mediators or cytokines is regulated by AKT and NF- κ B signaling pathways [7,8]. In addition, the AKT signaling pathway plays a major role in regulating GSK-3 β activity in cells, as abnormal activity of GSK-3 β could result in disorientated production of neuronal proteins, which can also trigger neuroinflammation [9–11]. NF- κ B is an inducible transcriptional factor that carries a transduction signals between the cytoplasm and nucleus [12]. As such, activation of NF- κ B by lipopolysaccharide (LPS) triggers a signaling cascade to produce proinflammatory mediators [13,14].

Seaweeds are well known as nutraceutical or functional food due to their medicinal and therapeutic properties. Secondary metabolites from seaweeds promote growth rate of tilapia fish [15,16], improve non-specific immune response [16] and contribute to pharmacological activities, such as antioxidant [17–19], antiinflammatory [20], antimicrobial [19,21] and antifungal [22] activities. Bioactive compounds such as fucoxanthin and sargachromenol from brown seaweeds (*Sargassum* spp.) [23], honaucins A–C from *Leptolyngbya crossbyana* [24] and sacran from *Aphanothece sacrum* [25] have been reported to exhibit antiinflammatory activities. *Kappaphycus malesianus*, also known as “*Aring-aring*”, was identified as the new member of *Kappaphycus* family in 2014 and displays considerable morphological similarity with *K. alvarezii* [26]. *K. malesianus* is a red seaweed widely cultivated in Semporna, Sabah, Malaysia, as an important source of raw material for carrageenan production for use as an emulsifier and stabilizer in the food, pharmaceutical and cosmetics industries. *K. alvarezii* has been reported to exhibits antiinflammatory activities and neuroprotective activities by promoting neuronal growth, which could slow down the process of aging [27,28]. As *K. malesianus* and *K. alvarezii* are from the same family, are usually cultivated together and share similar morphology, it is hypothesized that *K. malesianus* extract could potentially exert an antiinflammatory effect. To the best of our knowledge, the pharmacological properties of *K. malesianus* are largely unexplored; hence, the aim of this project was to investigate the antineuroinflammatory activity of *K. malesianus* extract on LPS-stimulated BV2 microglia and the underlying mechanism of this action. The possible compounds present in the extract with the most promising antineuroinflammatory activity were identified by liquid chromatography–mass spectrometric (LC-MS) analysis.

2. Results

2.1. Effect of *K. malesianus* Extracts on the Viability of BV2 Microglia

We investigated the cell viability of BV2 microglia treated with various *K. malesianus* extracts (ethyl acetate, ethanol and methanol extracts) at concentrations ranging from 0 mg/mL to 10 mg/mL, with a negative control containing BV2 microglia and media only (Figure 1).

Figure 1 shows that cell viability of BV2 microglia treated with *K. malesianus* ethyl acetate extract stayed above 90% from 0 mg/mL to 2.5 mg/mL; however, it significantly decreased ($p \leq 0.05$) to $62.95\% \pm 7.59$ and $2.98\% \pm 3.12$ at 5 mg/mL and 10 mg/mL, respectively, compared to the negative control ($p \leq 0.05$). Results show that cell viability of BV2 microglia treated with *K. malesianus* ethanol extract gradually decreased from 0.16 mg/mL ($101.19\% \pm 15.75$) to 2.5 mg/mL ($69.74\% \pm 5.33$), followed by a sharp decline at 5 mg/mL ($6.58\% \pm 2.87$). We also found that cell viability of BV2 microglia treated with methanol extract gradually decreased until 5 mg/mL ($60.03\% \pm 7.97$), with a sudden decline in cell viability at 10 mg/mL ($26.83\% \pm 3.55$). We observed a significant decrease ($p \leq 0.05$) in cell viability of BV2 microglia treated with all *K. malesianus* extracts, starting from 5 mg/mL; therefore, in the subsequent bioassays, the concentration of *K. malesianus* extracts was maintained below a maximum of 2.5 mg/mL.

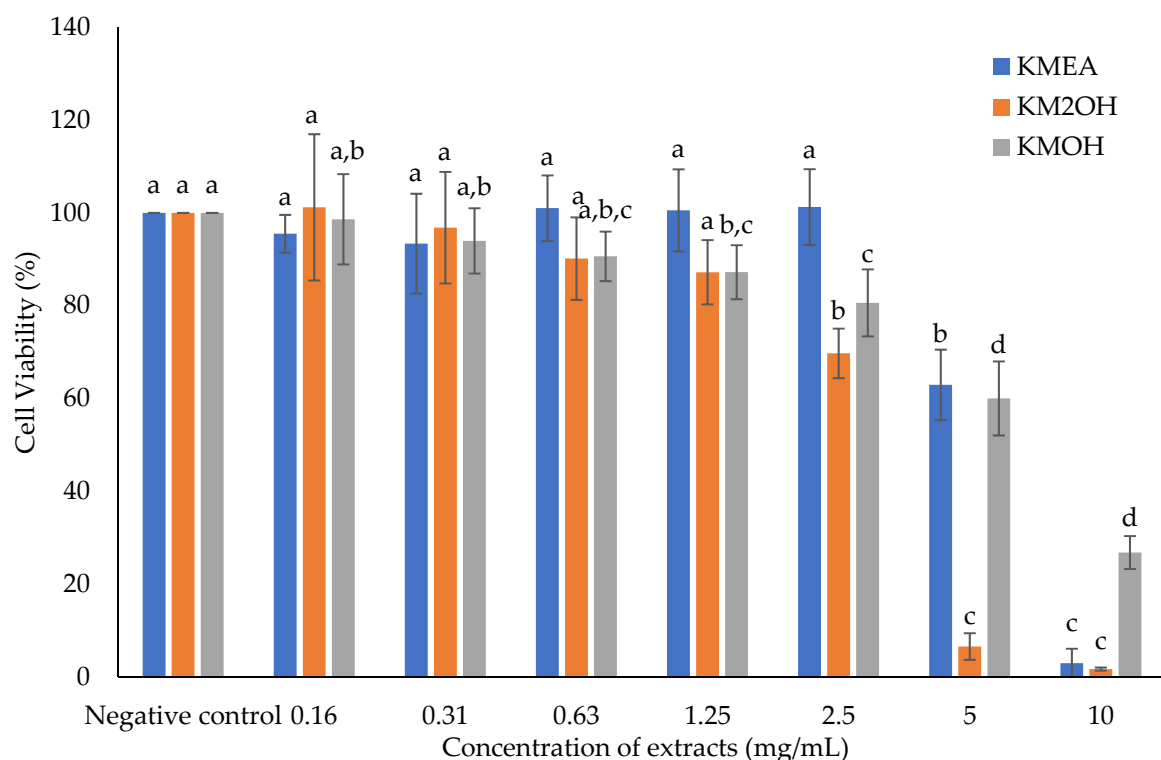


Figure 1. The effect of ethyl acetate, ethanol and methanol extracts of *K. malesianus* on cell viability of BV2 microglia evaluated by MTT assay. Different letters on top of the bars indicated significant differences ($p \leq 0.05$, one-way ANOVA: Duncan test). All data are shown as the mean \pm SD in triplicate ($n = 3$). KMEA: ethyl acetate extract; KM2OH: ethanol extract; KMOH: methanol extract.

2.2. Effect of *K. malesianus* Extracts on NO Production in LPS-Stimulated BV2 Microglia

The effect of *K. malesianus* extracts on NO inhibition in the supernatant media of BV2 microglia was determined after the cells were treated with 1 μ g/mL LPS with concentrations of *K. malesianus* extracts ranging from 0.16 mg/mL to 2.5 mg/mL. The three control groups were untreated control (only media), negative control (media and LPS) and positive control (N(γ)-nitro-L-arginine methyl ester (L-NAME) and LPS).

As shown in Figure 2, ethyl acetate extract gradually inhibited NO production as the concentration increased. At 2.5 mg/mL, NO production was inhibited to $1.79 \mu\text{M} \pm 0.94$. Starting from the concentration of 0.63 mg/mL ($8.87 \mu\text{M} \pm 1.7$), a significant difference ($p \leq 0.05$) relative to the negative control ($12.79 \mu\text{M} \pm 0.85$) was observed, whereas the NO inhibitory activity was comparable to that of the positive control ($7.85 \mu\text{M} \pm 0.96$). For ethanol extract, a gradual decrease in NO production was observed until a sudden decline to $3.59 \mu\text{M} \pm 2.66$ at 2.5 mg/mL. NO production of ethanol extract was significantly lower ($p \leq 0.05$) than in the negative control starting from 0.63 mg/mL, comparable to the positive control. *K. malesianus* methanol extract significantly ($p \leq 0.05$) inhibited NO production to $0.68 \mu\text{M} \pm 2.83$ at a concentration of 2.5 mg/mL, comparable to the untreated control. *K. malesianus* methanol extract showed the highest NO inhibitory activity among all extracts, as it reduced the NO production to $0.68 \mu\text{M}$. Moreover, *K. malesianus* methanol extract at 2.5 mg/mL showed no significant difference ($p \geq 0.05$) relative to the untreated control, indicating that methanol extract at 2.5 mg/mL was capable of reducing NO production to the normal state, like the untreated control. Hence, methanol extract was chosen for the subsequent experiments, as it showed the most potent NO inhibitory activity in LPS-stimulated BV2 microglia.

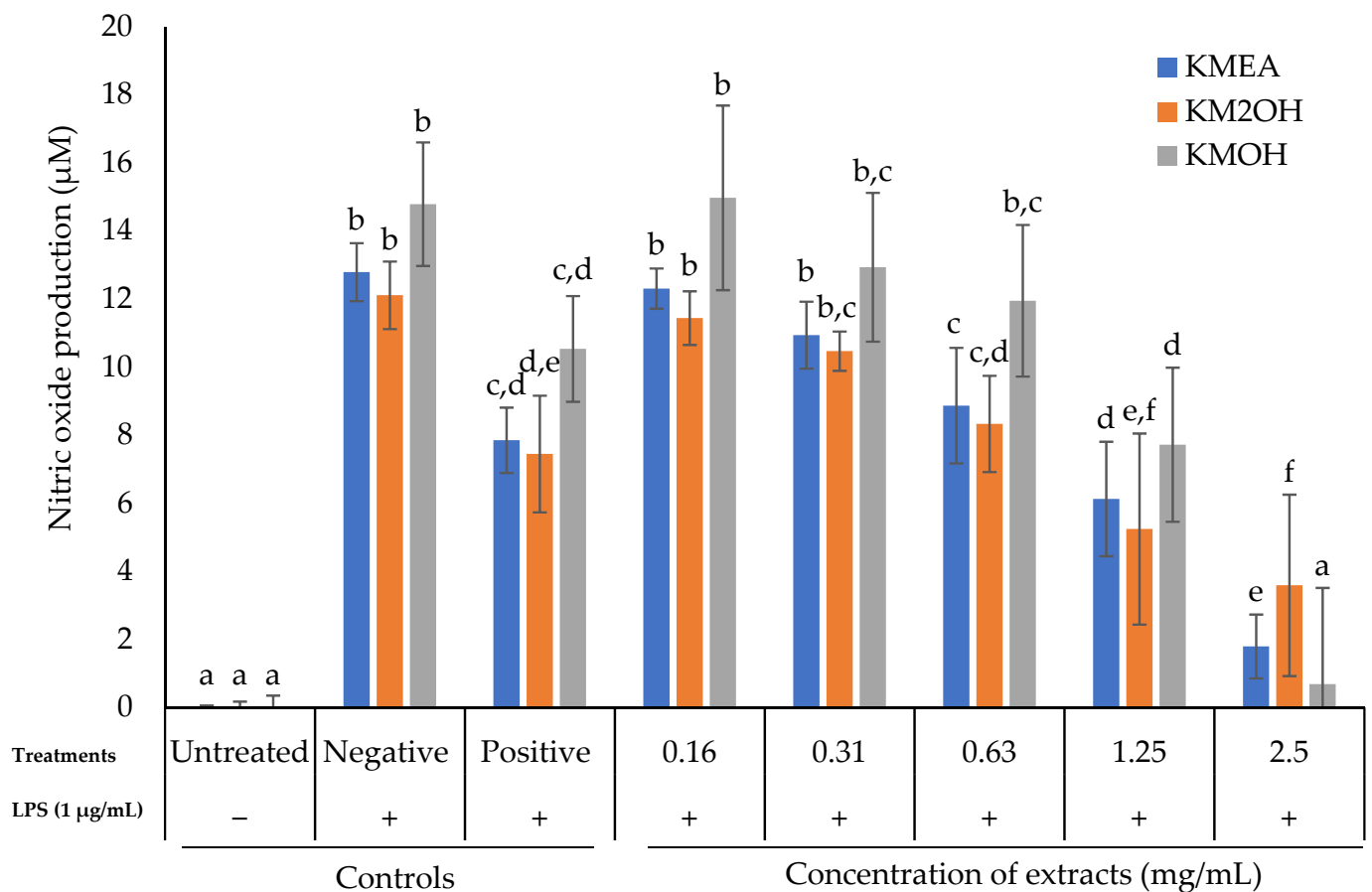


Figure 2. Nitric oxide production of LPS-stimulated BV2 microglia against various concentrations of ethyl acetate, ethanol and methanol extracts of *K. malesianus* evaluated by Griess assay. Different letters on top of the bars indicated significant differences ($p \leq 0.05$, one-way ANOVA: Duncan test). All data are shown as the mean \pm SD in triplicate ($n = 3$).

2.3. Effects of *K. malesianus* Methanol Extract on iNOS and COX-2 Protein Expression in LPS-Stimulated BV2 Microglia

Effects of *K. malesianus* methanol extract on proinflammatory mediators (iNOS and COX-2) with β -actin as the housekeeping gene are shown in Figure 3. The tested concentrations of *K. malesianus* methanol extract ranged from 0.63 mg/mL to 2.5 mg/mL, with two control groups: untreated control (only media) and positive control (media and LPS). Methanol extract decreased the LPS-stimulated expression of both iNOS and COX-2, with a particularly obvious dose-dependent reduction in iNOS. β -actin bands were similar between the control and treatment groups. According to protein quantification results (Figure 3b), treatment with methanol extract dose-dependently downregulated the expression of iNOS and COX-2 proteins. At concentrations between 1.25 mg/mL and 2.5 mg/mL, the expression of iNOS and COX-2 was lower than that of the positive control, showing the antineuroinflammatory activity of *K. malesianus* methanol extract.

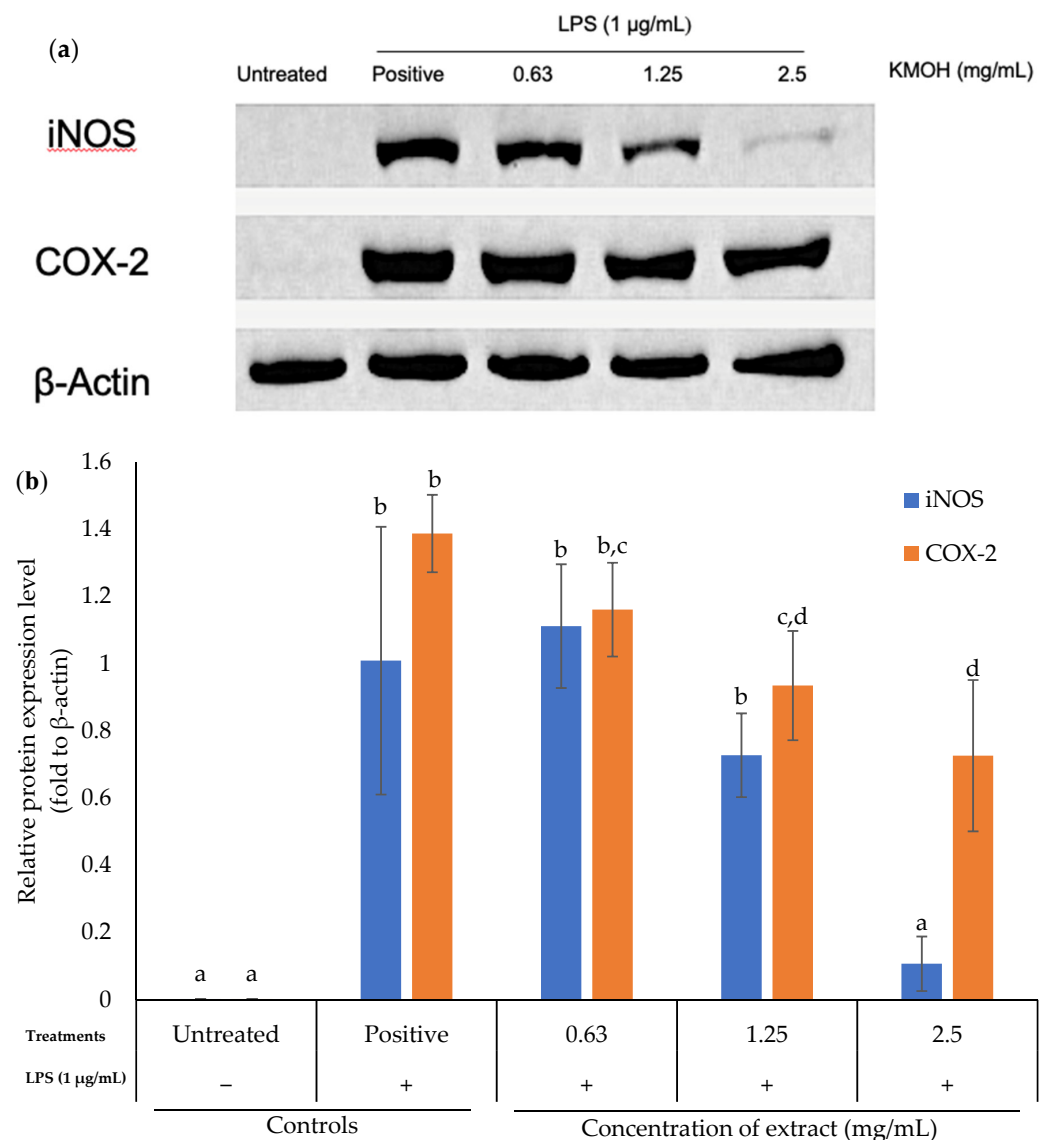


Figure 3. (a) Effects of *K. malesianus* methanol extract in LPS-stimulated BV2 microglia on iNOS and COX-2 expression, with β -actin as the housekeeping gene. (b) Relative protein expression levels of iNOS and COX-2 were determined by densitometry and normalized by β -actin. Different letters on top of the bars indicated significant differences ($p \leq 0.05$, one-way ANOVA: Duncan test). All data are shown as the mean \pm SD in triplicate ($n = 3$).

2.4. Effect of *K. malesianus* Methanol Extract on Proinflammatory Cytokines Expression in LPS-Stimulated BV2 Microglia

The expression of proinflammatory cytokines (TNF- α and IL-6) in LPS-stimulated BV2 microglia was evaluated using ELISA (Figure 4). The tested concentrations of *K. malesianus* methanol extract ranged from 0.63 mg/mL to 2.5 mg/mL, with two control groups: untreated control (only media) and positive control (media and LPS). Results showed that methanol extract significantly ($p \leq 0.05$) downregulated the expression of TNF- α and IL-6 in LPS-stimulated BV2 microglia in a dose-dependent manner, with a higher inhibitory effect on IL-6. Therefore, pre-treatment with methanol extract could suppress the expression of proinflammatory cytokines. Our findings further verified the antineuroinflammatory effect of *K. malesianus* methanol extract.

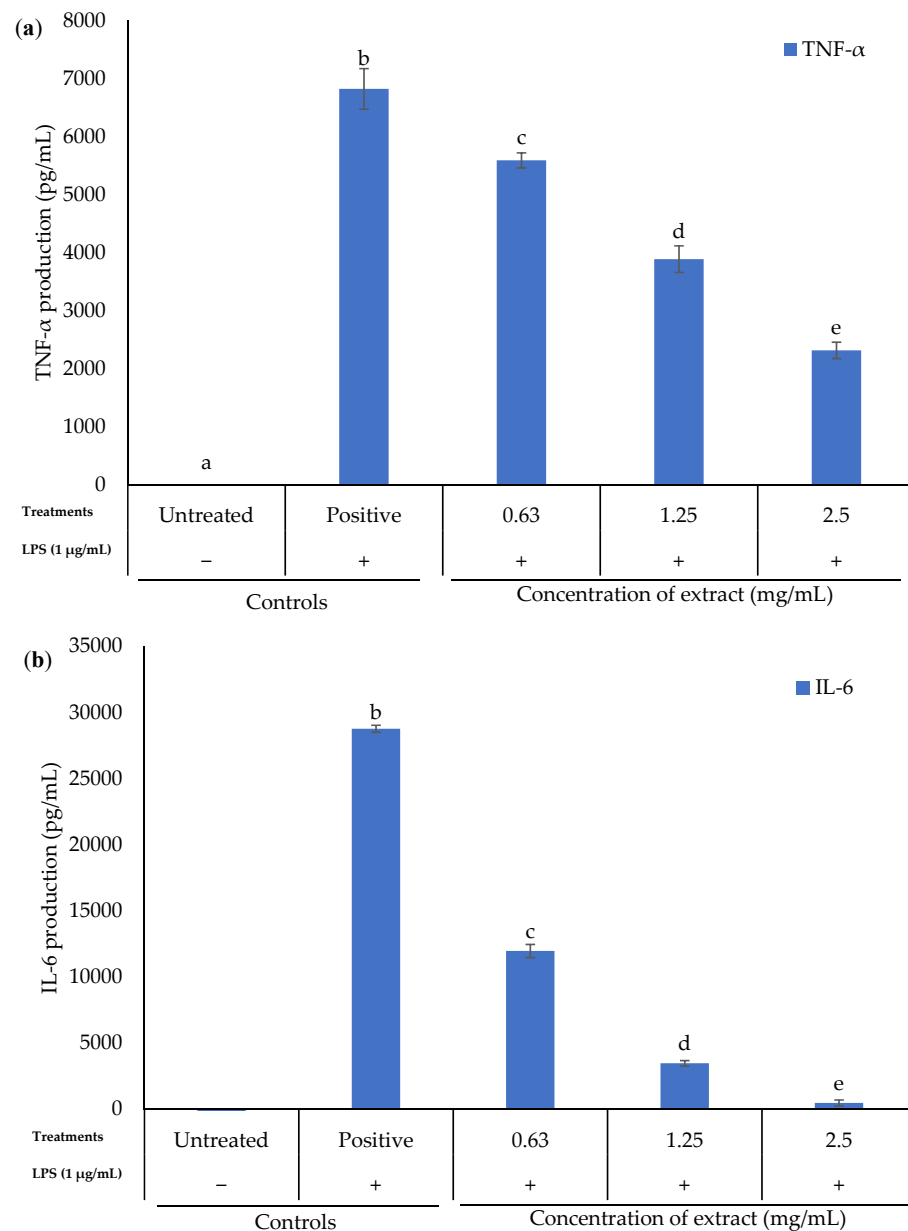


Figure 4. (a) TNF- α and (b) IL-6 production of LPS-stimulated BV2 microglia against various concentrations of methanol extract of *K. malesianus* evaluated by ELISA kit. Different letters on top of the bars indicated significant differences ($p \leq 0.05$, one-way ANOVA: Duncan test). All data are shown as the mean \pm SD in triplicate ($n = 3$).

2.5. Effect of *K. malesianus* Methanol Extract on Proinflammatory Mediators in LPS-Stimulated BV2 Microglia Using RT-PCR

RT-PCR was used to determine the mRNA level of proinflammatory mediators and cytokines (iNOS, COX-2, TNF- α , IL-1 β and IL-6) in *K. malesianus* methanol extract-treated, LPS-stimulated BV2 microglia (Figure 5). The tested concentrations of methanol extract ranged from 0.63 mg/mL to 2.5 mg/mL, with two control groups: untreated control (only media) and positive control (media and LPS). Results indicated that the methanol extract inhibited the mRNA level of all mediators and cytokines in a dose-dependent manner as the extract concentrations increased. These results are consistent with the immunoblot results, suggesting that *K. malesianus* methanol extract has the potential to suppress the transcription of proinflammatory mediators and cytokines.

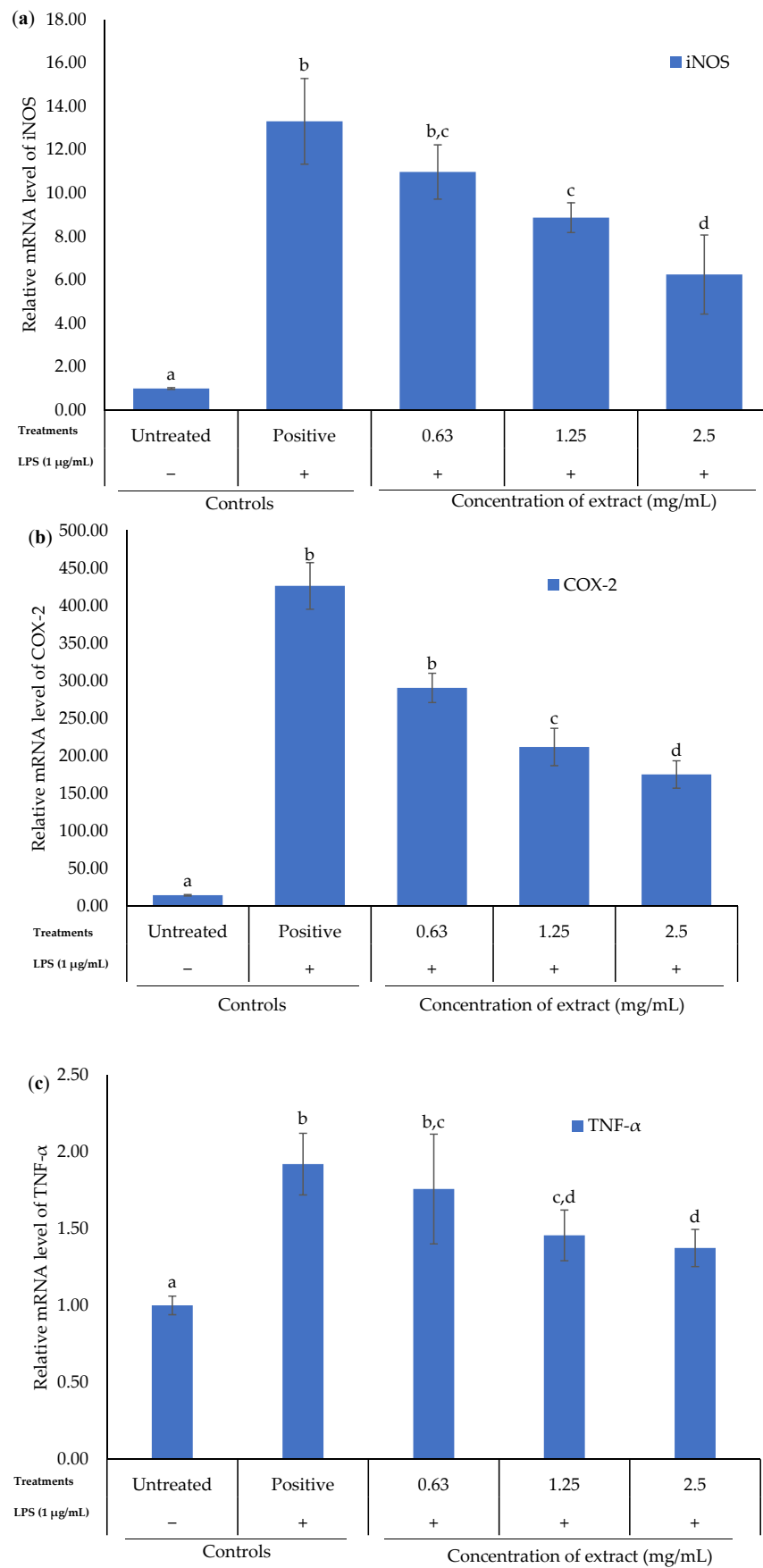


Figure 5. Cont.

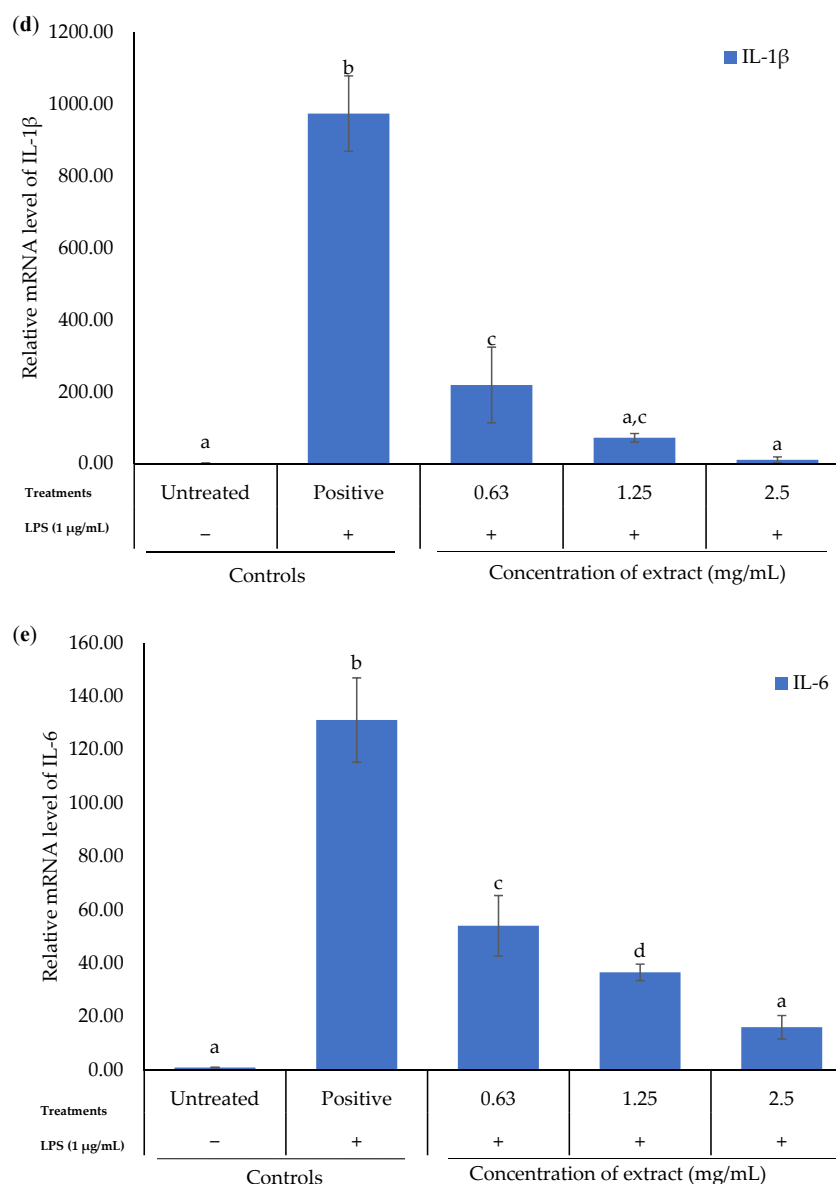


Figure 5. RT-PCR results of the effect of *K. malesianus* methanol extract on (a) iNOS, (b) COX-2, (c) TNF- α , (d) IL-1 β and (e) IL-6 in LPS-stimulated BV2 microglia. Different letters on top of the bars indicated significant differences ($p \leq 0.05$, one-way ANOVA: Duncan test). All data were normalized against a GAPDH control and are expressed as the mean \pm SD in triplicate ($n = 3$).

2.6. Effect of *K. malesianus* Methanol Extract on the AKT and ERK Signaling Pathway in LPS-Stimulated BV2 Microglia

K. malesianus methanol extract was used to further investigate the effects on signaling pathways, including the AKT and ERK pathways in LPS-stimulated BV2 microglia (Figure 6). Phosphorylated AKT (p-AKT) proteins and phosphorylated ERK (p-ERK) proteins were investigated with methanol extract at concentrations ranging from 0.16 mg/mL to 1.25 mg/mL, with two control groups: untreated control (only media) and positive control (media and LPS). Total AKT (t-AKT) proteins and total ERK (t-ERK) proteins were also observed to ensure the validity of results obtained from the phosphorylated proteins, with β -actin as the housekeeping gene. Results showed that methanol extract suppressed p-AKT proteins in a dose-dependent manner, with an optimal inhibitory activity at 0.63 mg/mL, followed by a sudden increase in protein expression at 1.25 mg/mL. On the other hand, p-ERK proteins showed upregulated expression from 0.16 mg/mL to 0.31 mg/mL, followed by a steep decline in protein expression at a concentration of 0.63 mg/mL and a slight

increase at 1.25 mg/mL. Thus, 0.63 mg/mL of *K. malesianus* methanol extract is suggested as the optimal concentration for antineuroinflammatory activity.

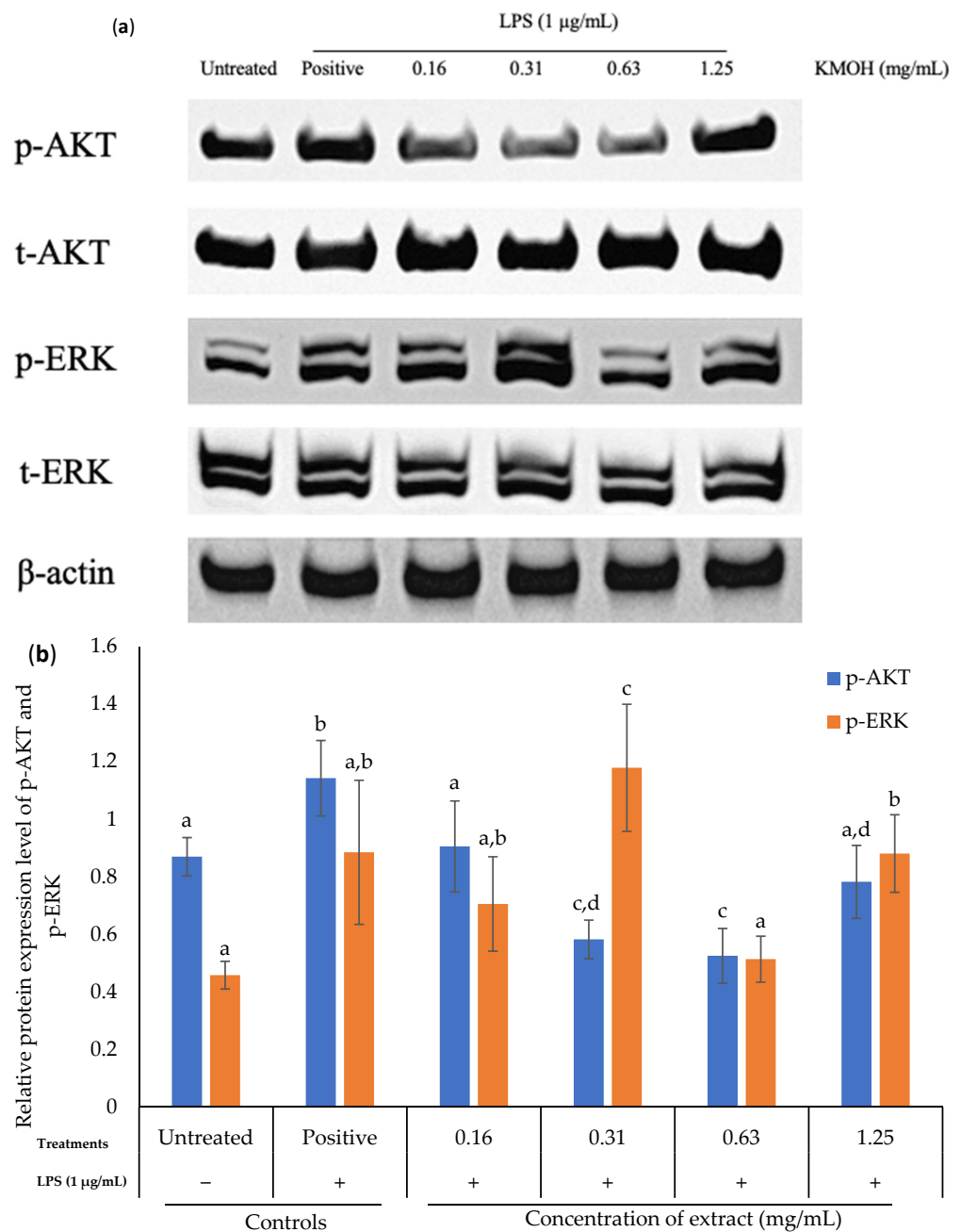


Figure 6. (a) Effects of *K. malesianus* methanol extract in LPS-stimulated BV2 microglia on p-AKT proteins, t-AKT proteins, p-ERK proteins and t-ERK proteins, with β -actin as the housekeeping gene. (b) The relative expression levels of p-AKT proteins and p-ERK proteins were determined by densitometry and normalized by t-AKT proteins and t-ERK proteins, respectively. Different letters on top of the bars indicated significant differences ($p \leq 0.05$, one-way ANOVA: Duncan test). All data are shown as the mean \pm SD in triplicate ($n = 3$).

2.7. Effect of *K. malesianus* Methanol Extract on the NF- κ B Signaling Pathway in LPS-Stimulated BV2 Microglia

Total protein of NF- κ B was extracted from both the cytoplasm and nucleus; the results (Figure 7) showed the effect of *K. malesianus* methanol extract on the expression of p-NF- κ B proteins in LPS-stimulated BV2 microglia at concentrations ranging from 0.16 mg/mL to 1.25 mg/mL, with two control groups: untreated control (only media) and positive control

(media and LPS). Methanol extract gradually inhibited the expression of p-NF- κ B proteins, with a decline in inhibitory activities beginning at 1.25 mg/mL and the optimal inhibitory activity at 0.63 mg/mL.

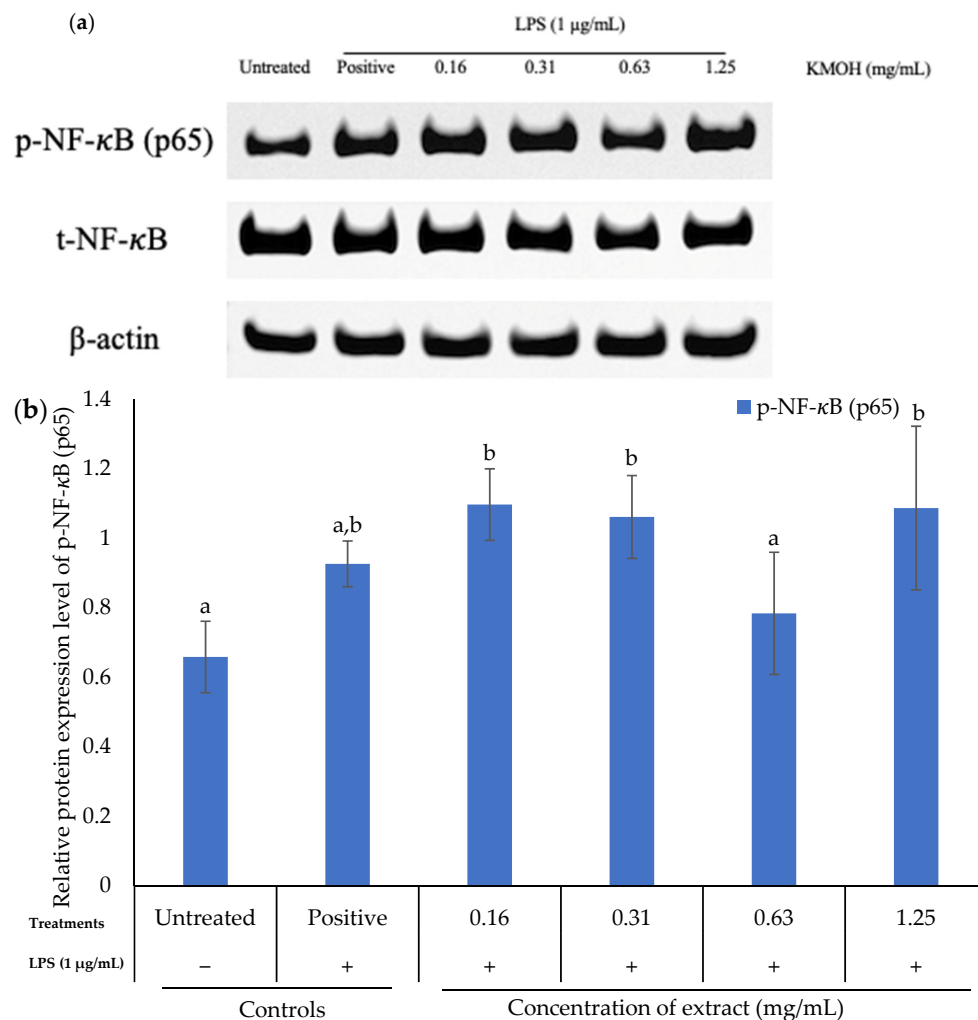


Figure 7. (a) Effects of *K. malesianus* methanol extract in LPS-stimulated BV2 microglia on p-NF- κ B proteins and t-NF- κ B proteins, with β -actin as the housekeeping gene. (b) The relative expression levels of p-NF- κ B proteins were determined by densitometry and normalized by t-NF- κ B proteins. Different letters on top of the bars indicated significant differences ($p \leq 0.05$, one-way ANOVA: Duncan test). All data are shown as the mean \pm SD in triplicate ($n = 3$).

2.8. Proposed Bioactive Compounds Present in *K. malesianus* Methanol Extract

LC-MS analysis of *K. malesianus* methanol extract detected 43 peaks in the positive-ion mass spectra. After comparison with 43 compounds, seven identified bioactive compounds were reported in the Metlin database, with molecular formula generator (MFG) scores above 90% and a ± 2 difference in MFG scores. Among the seven identified bioactive compounds, only six (2,6-nonadien-1-ol, xestoaminol c, glutamyl-proline, prosopinine, 1-monopalmitin and eplerenone) had been reported with their bioactivities, including antitumor, antimicrobial, antiparasitic, anaesthetic, analgesic, antiviral and antiinflammatory activities. Table 1 showed the bioactive compounds identified in *K. malesianus* methanol extract.

Table 1. Proposed bioactive compounds present in methanol extract of *K. malesianus*.

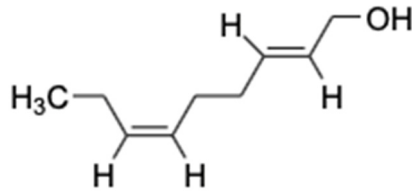
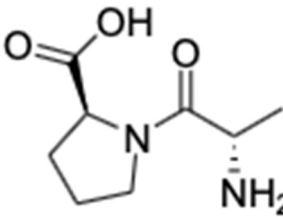
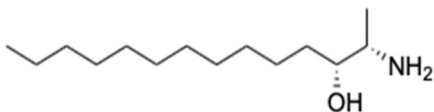
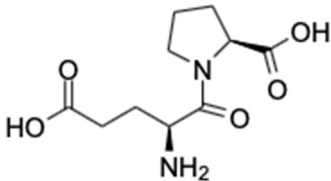
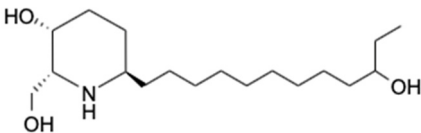
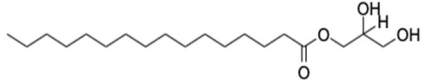
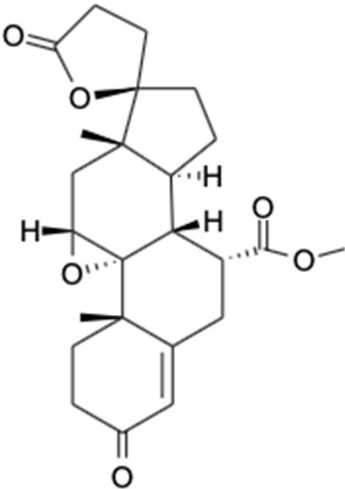
No	Compound Name	Formula	Chemical Structure	<i>m/z</i>	Mass	Bioactivity	References
1.	2,6-Nonadien-1-ol	C ₉ H ₁₆ O		158.154	140.1201	Key aroma-active compound that contributes fresh flavors to black garlic	[29]
2.	Alanyl-Proline	C ₈ H ₁₄ N ₂ O ₃		187.1075	186.1003	Inhibitor of human cyclophilin hCyp-18	[30]
3.	Xestoaminol C	C ₁₄ H ₃₁ NO		230.2478	229.2405	Antitumor activity, antimicrobial activity and antiparasitic activity	[31,32]
4.	Glutamyl-Proline	C ₁₀ H ₁₆ N ₂ O ₅		245.1133	244.1059	Antitumor activity	[33]
5.	Prosopinine	C ₁₆ H ₃₃ NO ₃		288.2535	287.2463	Anaesthetic activity; antibiotic, analgesic and anti-inflammatory activity	[34,35]

Table 1. Cont.

No	Compound Name	Formula	Chemical Structure	<i>m/z</i>	Mass	Bioactivity	References
6.	1-Monopalmitin	C ₁₉ H ₃₈ O ₄		331.284	330.2768	Antitumor activity, antiviral activity	[36,37]
7.	Eplerenone	C ₂₄ H ₃₀ O ₆		415.2124	414.2048	Reduced mortality and morbidity in patients with acute myocardial infarction; reduced blood pressure; antiinflammatory activity	[38–41]

3. Discussion

K. malesianus is a red seaweed discovered in 2014 and cultivated for carrageenan production. No pharmacological properties of this red seaweed have been investigated to date. Therefore, the present study is the first to report the antineuroinflammatory activity of *K. malesianus*.

We compared three solvent extracts—ethyl acetate, ethanol and methanol—and assessed the extracts' cytotoxicity with respect to cell viability of BV2 microglia. *K. malesianus* methanol extract exhibited the least cytotoxicity compared to ethyl acetate and ethanol extracts. Methanol extract had an IC_{50} of 6.67 ± 0.61 mg/mL, indicating that 50% of the cell growth was inhibited at this concentration. ICH (International Council of Harmonisation of Technical Requirements for Pharmaceuticals for Human Use) guidelines suggest that products dosage less than 50 mg/mL containing organic solvents are safe for human consumption; thus, we suggest that our *K. malesianus* methanol extract is safe for use as alternative therapeutic agents [42]. Furthermore, our results demonstrated that methanol extract had the highest NO inhibitory activity among the tested extracts. Research studies have reported that ethanol and methanol are suitable to extract polyphenols and soluble phenolic compounds from plants due to the solubility of the bioactive compounds and polarity of the solvent [43,44]. Hence, ethanol and methanol are commonly used for the extraction of bioactive compounds, as most of the polyphenols and phenolic compounds possess antioxidant, antidiabetic and antiinflammatory activities [45–47]. In comparison with our results, *K. alvarezii* showed the highest NO inhibitory activity in ethyl acetate extract [48]. Although *K. malesianus* and *K. alvarezii* are often cultivated together and had similar morphology, it is believed that variation in bioactive compounds affect their bioactivities [26]. As such, it is believed that bioactive compounds in *K. malesianus* have higher polarity compared to those in *K. alvarezii*, causing varying effectiveness of NO inhibition in LPS-stimulated BV2 microglia. Our results showed that methanol is the best solvent for extracting bioactive compounds with antineuroinflammatory activity from *K. malesianus*. Therefore, methanol extract with the highest potency was chosen for further investigation of antineuroinflammatory activity.

As mentioned earlier, proinflammatory mediators are among the key factors that ameliorate neuroinflammation; therefore, modulation of the production of proinflammatory mediators is necessary to ease neuroinflammatory conditions. We found that *K. malesianus* effectively suppressed iNOS and COX-2 protein expressions. Similar results were shown in other red seaweeds, such as *Polyopes lancifolius* and *Laurencia snackeyi*, reducing the production of NO and PGE₂ through the suppression of iNOS and COX-2 proteins in BV2 microglia and RAW 264.7 cells, respectively [49,50]. In addition, a study on the brown seaweed *Petalonia binghamiae* in Korea reported a similar pattern as that of *K. malesianus* methanol extract, whereby the band intensity decreased as the extract concentration increased [51]. Hence, a reduction in iNOS and COX-2 expression had proven the antineuroinflammatory activity of *K. malesianus* by suppressing both enzymes at the mRNA level. Moreover, *K. malesianus* methanol extract considerably reduced TNF- α and IL-6 production at the mRNA level. However, it was reported that methanol extract of the red seaweed *P. lancifolius* significantly inhibited TNF- α production at 0.1 mg/mL, with a greater inhibitory activity as compared to *K. malesianus*, which significantly inhibited TNF- α production at 1.25 mg/mL [49]. Purified terpenoid extract derived from crude methanol extract of *Hypnea musciformis* significantly reduced IL-6 production at 0.05 mg/mL as compared to *K. malesianus* crude methanol extract at 0.63 mg/mL [52]. In addition, a natural multimineral called Aquamin derived from red seaweed *Lithothamnion corallioides*, which has been approved by U.S. Food and Drug Administration (FDA) as a food supplement, was reported to exhibit antineuroinflammatory activity by suppressing the production of TNF- α and IL-1 β [53,54]. Therefore, it is believed that our red seaweed, *K. malesianus*, exhibits antineuroinflammatory activity by regulating the expression of proinflammatory mediators and cytokines.

In our study, *K. malesianus* methanol extract exhibited antineuroinflammatory activity by blocking the signaling pathways, including AKT/NF- κ B and ERK pathways, thus

suppressing the production of proinflammatory cytokines and contributing to the antineuroinflammatory activity. In 2005, it was found that AKT plays a role in regulating iNOS and COX-2 expression, as inhibiting AKT activation reduces the expression of iNOS and COX-2 [55]. Research revealed that seaweed-derived phenolic compounds are effective in inhibiting proinflammatory cytokines by regulating MAPK pathways, including ERK, thus suppressing inflammation [56]. Phosphorylation of I- κ B α in NF- κ B is also one of the key factors that regulates the activation of iNOS and COX-2, as well as the production of TNF- α [57]. Our results showed that *K. malesianus* methanol extract was able to reduce the expression of NF- κ B gradually; therefore, it is strongly suggested that blocking the expression of NF- κ B could reduce the activation of proinflammatory mediators and cytokines. Collectively, our results suggested that *K. malesianus* exhibits antineuroinflammatory activity by regulating proinflammatory mediators and cytokines through the AKT/NF- κ B and ERK pathways. Moreover, we hypothesize that the reported bioactive compound(s) found in *K. malesianus* could contribute to antineuroinflammatory activity by blocking the AKT/NF- κ B and ERK pathways.

In the present study, among the seven reported bioactive compounds, including prosopinine and eplerenone, which had exhibited antiinflammatory activity, 2,6-nonadien-1-ol is predicted to have antiinflammatory activity. 2,6-nonadien-1-ol is a major aroma compound in black garlic, and research indicates that black garlic exhibits antiinflammatory activity by regulating the expression of NO, TNF- α and PGE₂ [29,58]. Prosopinine is a piperidine alkaloid that was found to exhibit antibiotic, anaesthetic and analgesic properties [59]. Prosopinine found in *Prosopis africana* methanol stem bark extract was found to contribute to analgesic and antiinflammatory activities [35]. Eplerenone is a selective aldosterone blocker that can help to reduce the mortality rate of cardiovascular diseases [39]. Moreover, eplerenone has also been reported to have an antiinflammatory effect on viral myocarditis, suggesting that it could reduce inflammation during the development of heart failure [41]. According to our LC-MS results, 2,6-nonadien-1-ol was present in our *K. malesianus* methanol extract; thus, we predict that 2,6-nonadien-1-ol could contribute to the antiinflammatory activity in *K. malesianus*. However, in order to identify the role of 2,6-nonadien-1-ol in anti-inflammatory activity, further investigation is needed to justify this hypothesis. Lastly, prosopinine and eplerenone found in *K. malesianus* may contribute to antineuroinflammatory activity and have significant potential as antineuroinflammatory agents.

4. Materials and Methods

4.1. Seaweed Collection and Extract Preparation

Specimens of *K. malesianus* were collected from Semporna, Sabah, Malaysia. Herbarium voucher (KM_001) was prepared and deposited at Sunway University, Selangor Darul Ehsan, Malaysia. Specimens were washed with salt water to remove sand, mud and epiphytes, followed by a final rinsed with distilled water. Specimens were freeze-dried (LaboGene, Brigachtal, Germany) and ground into powder form before storage at $-20\text{ }^{\circ}\text{C}$ for future use. An amount of 5 g of seaweed powder was incubated with 250 mL of ethyl acetate, ethanol or methanol in a ratio of 1:50 (*w/v*) for 48 h at $37\text{ }^{\circ}\text{C}$ in an incubator shaker, followed by centrifugation at 15,000 rpm for 10 min. All solvent extracts were vacuum-dried with a vacuum concentrator (LaboGene, Brigachtal, Germany) and stored at $-20\text{ }^{\circ}\text{C}$ for future use.

4.2. Cell Culture

Murine BV2 microglia (Elabscience, EP-CL-0493, Wuhan China) were cultured and maintained in Minimum Essential Medium Eagle (MEM) (Sigma-Aldrich, M0643, St. Louis, Mo, USA) supplemented with 10% fetal bovine serum (FBS) (Sigma-Aldrich, St. Louis, Mo, USA) and 1% penicillin-streptomycin (Sigma-Aldrich, St. Louis, Mo, USA) at $37 \pm 2\text{ }^{\circ}\text{C}$ in a 5% CO₂-humidified incubator. The cells used in this study was controlled within passage numbers of 3–15.

4.3. 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl Tetrazolium Bromide (MTT) Cell Viability Assay

BV2 microglia were plated in a 96-well plate at a cell density of 6.25×10^4 cells per well and incubated for 24 h. Then, the cells were treated with ethyl acetate, ethanol or methanol extract in a 2-fold dilution for another 24 h. On the third day, 10 μ L of MTT (Merck & Co, Rahway, NJ, USA) was added to each well and incubated for 4 h. Subsequently, the supernatant was discarded, and 100 μ L of dimethyl sulfoxide (DMSO) was added to each well to dissolve the purple formazan crystals formed in viable cells. The absorbance of the dissolved formazan crystal was measured at 570 nm, with 630 nm as the reference wavelength, using a UV-vis spectrophotometer microplate reader (Infinite 200 Pro, Tecan, Männedorf, Switzerland). All data were curated in triplicate, and the cell viability (%) was calculated with the following formula:

$$\text{Cell viability \%} = \frac{\text{Absorbance of samples}}{\text{Absorbance of negative control}} \times 100\%$$

4.4. Measurement of Nitric Oxide

The NO production of LPS-stimulated BV2 microglia was determined by Griess assay, a common method that measures the amount of nitrite, a relatively stable oxidation product of NO, through the azo-coupling reaction of N-(1-naphthyl)ethylenediamine (NED) and sulphanilamide to visualize NO in pink-red azo dye (Cell Signaling Technology, Danvers, MA, USA). 250 μ M of L-NAME (Sigma-Aldrich, St. Louis, Mo, USA) was used as the positive control. First, BV2 microglia were plated in a 96-well plate at a cell density of 6.25×10^4 cells per well and incubated for 24 h. Then, the cells were treated with various concentrations of *K. malesianus* extracts (ethyl acetate, ethanol and methanol extracts) for 2 h, followed by LPS stimulation (1 μ g/mL) from *Escherichia coli* (O55:B5, Sigma-Aldrich, St. Louis, Mo, USA) for 24 h. On the third day, 100 μ L of supernatant from each well was collected and mixed with an equal amount of Griess reagent in a 96-well plate. The absorbance was measured immediately at 550 nm using a microplate reader. Eight concentrations of nitrite in the range of 0–100 μ M were used as the standard. The amount of NO was calculated with reference to the standard curve of nitrite. The most potent extract was selected for subsequent experiments.

4.5. Western Blot Analysis

BV2 microglia were plated in a 6-well plate at a cell density of 6.25×10^5 cells per well and incubated for 24 h. The cells were treated with *K. malesianus* methanol extract for 2 h, followed by LPS stimulation (1 μ g/mL) for 24 h. Then, the cells were lysed with a lysis buffer (9803; Cell Signaling Technology, Danvers, MA, USA) cocktail supplemented with 1 mM phenylmethylsulphonyl fluoride (PMSF) (Roche diagnostics, Mannheim, Baden-Württemberg, Germany) and protease inhibitor (A32865; Thermo Fisher Scientific, Waltham, MA, USA) for 5 min. The protein lysates were quantified using a Pierce™ BCA protein assay kit (Thermo Fisher Scientific, Waltham, MA, USA). Equal amounts of proteins were separated on SDS-polyacrylamide gels (PAGE) at 120 V for 1.5 h. Then, the protein on the SDS gel was transferred to a nitrocellulose membrane with a semi-dry transfer system (Bio-Rad Laboratories, Hercules, CA, USA) at 25 V for 30 min. The blot was incubated with 5% skim milk for 1 h at room temperature, followed by overnight incubation with primary antibodies of interest (anti-iNOS (1:1000; D6B6S), anti-COX-2 (1:1000; D5H5), anti-phospho-AKT (1:1000; S473), anti-AKT (1:1000; C67E7), anti-phospho-ERK (1:1000; 137F5), anti-ERK (1:1000; T202/Y204), anti-phospho-NF- κ B (1:1000;), anti-NF- κ B (1:1000;)) or anti- β -actin (1:1000; 13E5)) from rabbit (Cell Signaling Technology, Danvers, MA, USA) at 4 °C. The blot was washed with tris-buffered saline with 0.1% Tween 20 (TBST), followed by incubation with goat anti-rabbit horseradish peroxidase-conjugated secondary antibody (1:10,000; Thermo Fisher Scientific, Waltham, MA, USA) for 1 h at room temperature. After washing, the protein blot was incubated with substrate reagent from SuperSignal™ West Femto Maximum Sensitivity Substrate electrochemiluminescence (ECL) (Thermo Fisher

Scientific, Waltham, MA, USA), followed by visualization with a gel documentation system (Syngene, GBOX F3, Frederick, MD, USA). The protein expression level was quantified by ImageJ software (1.52v, Wayne Rasband, National Institutes of Health, Bethesda, MD, USA). All data were curated in triplicate. Original Western blot images are shown in Figures S1–S7.

4.6. Enzyme-Linked Immunosorbent Assay (ELISA)

The expression of extracellular proinflammatory cytokines (TNF- α and IL-6) of LPS-stimulated BV2 microglia was detected by using an ELISA kit (Quantikine[®] Mouse Immunoassay, R&D System[®], Minneapolis, MN, USA) in a 96-well plate with standard techniques according to the manufacturer's instruction. Briefly, BV2 microglia were plated in a 6-well plate at a cell density of 6.25×10^5 cells per well and incubated for 24 h. The cells were treated with *K. malesianus* methanol extract for 2 h, followed by LPS stimulation (1 $\mu\text{g}/\text{mL}$) for 24 h. On the third day, the supernatant of the cell culture was collected and centrifuged at 15,000 rpm for 3 min at 4 °C to remove cells. Then, the expression of proinflammatory cytokines was measured based on the respective ELISA kit inserts. Data were curated in triplicate.

4.7. Reverse Transcription-Polymerase Chain Reaction (RT-PCR)

The mRNA expression of the proinflammatory mediators and cytokines (iNOS, COX-2, TNF- α , IL-1 β and IL-6) of LPS-stimulated BV2 microglia was examined using RT-PCR. BV2 microglia were plated in a T75 flask at a cell density of 3.125×10^6 cells per flask and incubated for 24 h. Then, the cells were treated with *K. malesianus* methanol extract for 2 h, followed by LPS stimulation (1 $\mu\text{g}/\text{mL}$) for 24 h. The cells were harvested and centrifuged at 15,000 rpm for 3 min. Briefly, total RNA was isolated using a RNeasy[™] RNA cell miniprep system (Promega, Madison, WI, USA) according to manufacturer's instructions, and the RNA concentrations were determined spectrophotometrically (BioDrop, Cambridge, Cambridgeshire, UK). Then, cDNA was synthesized using a GoScript[™] reverse transcription system (Promega, Madison, WI, USA). PCR was then performed using GoTaq[®] qPCR master mix, gene-specific primers and nuclease-free water (Promega, Madison, WI, USA) and run for 40 cycles of amplification. Table 2 shows all the primer sequences. Data were curated in triplicate.

Table 2. Proinflammatory mediators and cytokines primer sequences.

mRNA Species	Primer Sequence	Reference
iNOS	5'-TTGCCACGGACGAGACGGATAGG-3' 5'-GGGCACATGCAAGGAAGGGAAGCTC-3'	[60]
COX-2	5'-TGCTGGTGGAAAAACCTCGT-3' 5'-GGTGCTCGGCTTCCAGTATT-3'	[60]
TNF- α	5'-GAAAAGCAAGCAGCCAACCA-3' 5'-CGGATCATGCTTCTGTGCTC-3'	[61]
IL-1 β	5'-GCTGAAAGCTCTCCACCTCA-3' 5'-AGGCCACAGGTATTTGTGTCG-3'	[62]
IL-6	5'-GAGGATAACCACTCCCAACAGACC-3' 5'-AAGTGCATCATCGTTGTTTCATACA-3'	[62]
GAPDH	5'-GGAGCGAGACCCCACTAACAT-3' 5'-GTGAGTTGCATATTTCTCGTGG-3'	[63]

4.8. Separation and Analysis of Major Compound(s) Using Liquid Chromatography–Mass Spectrometry (LC–MS)

LC–MS/ESI–MS analysis was performed with an Agilent 1290 Infinity LC system (Agilent Technologies, Santa Clara, CA, USA) coupled with an Agilent 6520 accurate-mass Q–TOF mass spectrometer (Agilent Technologies, Santa Clara, CA, USA) with dual ESI sources operated in positive-ion mode. The MS was operated with the electrospray voltage

set to 4000 V, a sheath gas flow of 10 L/min, fragmented voltage of 125 V, gas temperature of 300 °C and nebulizer gas at 45 psig. Chromatographic separation of metabolites was achieved using an Agilent Zorbax Eclipse XDB-C18 (Agilent Technologies, Santa Clara, CA, USA) narrow-bore 2.1 × 150 mm, 3.5 micron (particle size) operated at 25 °C. The column was eluted at a flow rate of 0.5 mL/min with aqueous solvent A: 0.1% formic acid in water and B: 0.1% formic acid in acetonitrile. The chemical structure of all the identified bioactive compounds were visualized using ChemDraw JS Sample Page (version 19.0.0-CDJS-19.0.x+da9bec968, PerkinElmer, Waltham, MA, USA).

4.9. Statistical Analysis

Statistical analysis was performed with the Statistical Package for Social Science (SPSS, version 23.0 for IOS, Chicago, IL, USA), and the data were expressed as mean ± standard deviation (SD) of three independent replicates. Levene's test was used to assess the homogeneity of variance. One-way ANOVA and Duncan's post hoc multiple comparison test were performed. Statistical differences with $p \leq 0.05$ were considered significant.

5. Conclusions

In conclusion, ethyl acetate, ethanol and methanol extracts of *K. malesianus* inhibited NO production, with methanol extract exhibiting the most potent NO inhibitory activity. Further studies revealed that the *K. malesianus* methanol extract suppressed the expression of proinflammatory mediators and cytokines in LPS-stimulated BV2 microglia via the AKT/NF- κ B and ERK pathways. Our findings indicate that *K. malesianus* possesses antineuroinflammatory activity and that prosopinine and eplerenone are the bioactive compounds that contribute to the antineuroinflammatory activity. To expand on the extant knowledge, isolation of both bioactive compounds, prosopinine and eplerenone, and further testing of its antineuroinflammatory activity in an in vivo study are needed.

Supplementary Materials: The following supporting information can be downloaded at: <https://www.mdpi.com/article/10.3390/md20080534/s1>, Figure S1. Original Western blot images for three repeats of iNOS, COX-2 and beta-actin; Figure S2. Original Western blot images for three repeats of phospho-AKT; Figure S3. Original Western blot images for three repeats of total AKT and beta-actin; Figure S4. Original Western blot images for three repeats of phospho-ERK; Figure S5. Original Western blot images for three repeats of total-ERK and beta-actin; Figure S6. Original Western blot images for three repeats of phospho-NF- κ B; Figure S7. Original Western blot images for three repeats of total-NF- κ B and beta-actin.

Author Contributions: Conceptualization, Y.-Y.Y.; data curation, N.J.-Y.L. and E.-L.N.; formal analysis, N.J.-Y.L. and Y.-Y.Y.; funding acquisition, Y.-Y.Y.; investigation N.J.-Y.L. and E.-L.N.; methodology, N.J.-Y.L. and Y.-Y.Y.; project administration, C.A., L.C.M. and Y.-Y.Y.; resources, L.C.M. and Y.-Y.Y.; supervision, K.-H.W., S.-H.L. and Y.-Y.Y.; validation N.J.-Y.L., K.-H.W. and Y.-Y.Y.; visualization, N.J.-Y.L. and C.A.; writing—original draft, N.J.-Y.L. and Y.-Y.Y.; writing—review and editing, E.-L.N., J.-R.P., K.-H.W., C.A., L.C.M., S.-H.L., S.G.W., A.A. and Y.-Y.Y. All authors have read and agreed to the published version of the manuscript.

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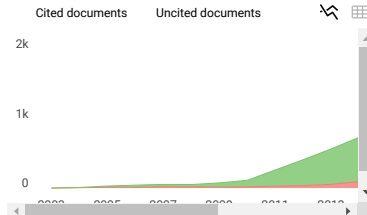
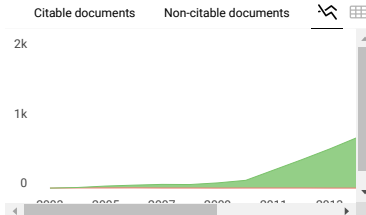
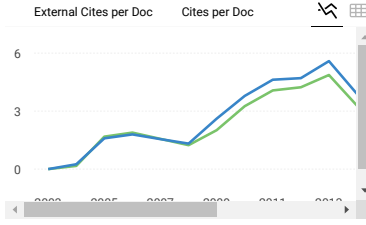
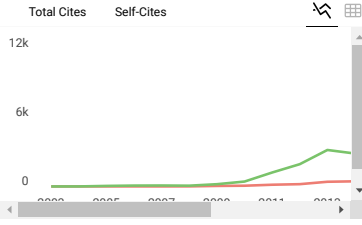
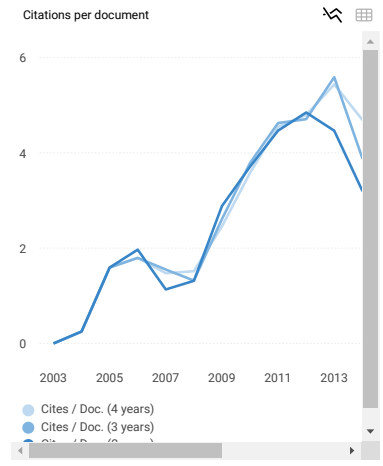
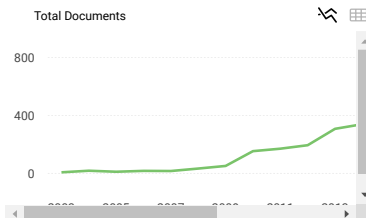
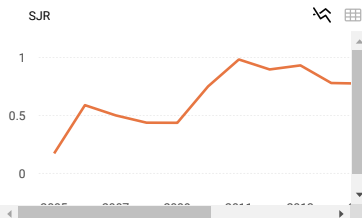
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