Tentative Schedule

6th International Conference
on Biotechnology Engineering 2021

DAY 1 (22 June 2021)		
8.30 - 9.00	Online attendance to the Congress IEC '21**	
9.00 - 9.45	Welcoming remarks by The Dean, The Rector and The President**	
9.45 - 10.00	Online attendance to ICBIOE 2021	
10.00 - 10.45	 **Keynote speaker 1** Speaker: Prof. Iftekhar A Karimi Title: Exploring the metabolism of *Methanococcus maripaludis* S2 for carbon utilisation	
10.45 - 11.00	Break & networking	
11.00 - 12.30	Parallel session	
	1A Biotechnology Engineering	1B Bioprocess Engineering
12.30 - 14.00	LUNCH BREAK	
14.00 - 15.30	Parallel session	
	2A Chemical Engineering	2B Food Technology and Engineering
15.30 - 15.45	Break & networking	
15.45 - 17.15	Parallel session	
	3A Biomaterials and Nanotechnology	3B Environmental Engineering and Bioenergy
DAY 2 (23 June 2021)		
9.00 - 9.45	 **Keynote speaker 2** Speaker: Prof. Dato' Ir Dr. Abdul Rahman Mohamed Title: Green technology and nanomaterial applications for the mitigation of greenhouse gases (GHGs)	
9.45 - 10.00	Break & Networking	
10.00 - 10.45	 **Keynote speaker 3** Speaker: Dr. Mariam Firdhaus Title: HALEA Natural Skincare: Unlocking research potential from lab to market	
10.45 - 11.00	Break & Networking	
11.00 - 12.30	Parallel session	
	4A Biotechnology Engineering	4B Environmental Engineering and Bioenergy
12.30 - 14.00	LUNCH BREAK	
14.00 - 15.30	Parallel session	
	5A Biotechnology Engineering	5B Agricultural and Natural Biotechnology
15.30 - 15.45	Break & networking	
15.45 - 17.15	Parallel session	
	6A Biomaterial & Nanotechnology	6B Food Technology and Engineering
17.15 - 17.45	Closing Session and Best Presentation Award	

**The platform for the Opening Ceremony is separate from ICBiOE. Follow the "Congress" link provided in the email

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6th International Conference
on Biotechnology Engineering 2021

	Room	Time	Paper ID	Room	Time	Paper ID
DAY 1 (22 June 2021)	**1A** Biotechnology Engineering	11.00 - 11.15	30	**1B** Bioprocess Engineering	11.00 - 11.15	62
		11.15 - 11.30	29		11.15 - 11.30	96
		11.30 - 11.45	57		11.30 - 11.45	101
		11.45 - 12.00	61		11.45 - 12.00	2
		12.00 - 12.15	47		12.00 - 12.15	88
		12.15 - 12.30	28		12.15 - 12.30	67
	2A Chemical Engineering	14.00 - 14.15	24	**2B** Food Technology & Engineering	14.00 - 14.15	32
		14.15 - 14.30	25		14.15 - 14.30	60
		14.30 - 14.45	27		14.30 - 14.45	9
		14.45 - 15.00	72		14.45 - 15.00	87
		15.00 - 15.15	43		15.00 - 15.15	84
		15.15 - 15.30	68		15.15 - 15.30	83
	3A Biomaterials & Nanotechnology	15.45 - 16.00	44	**3B** Environmental Engineering & Bioenergy	15.45 - 16.00	39
		16.00 - 16.15	51		16.00 - 16.15	31
		16.15 - 16.30	50		16.15 - 16.30	90
		16. 30 - 16.45	49		16. 30 - 16.45	95
		16. 45 - 17.00	41		16. 45 - 17.00	70
		17. 00 - 17.15			17. 00 - 17.15	

	Room	Time	Paper ID	Room	Time	Paper ID
DAY 2 (23 June 2021)	**4A** Biotechnology Engineering	11.00 - 11.15	103	**4B** Environmental Engineering & Bioenergy	11.00 - 11.15	78
		11.15 - 11.30	110		11.15 - 11.30	120
		11.30 - 11.45	35		11.30 - 11.45	126
		11.45 - 12.00	10		11.45 - 12.00	79
		12.00 - 12.15	36		12.00 - 12.15	104
		12.15 - 12.30	76		12.15 - 12.30	
	5A Biotechnology Engineering	14.00 - 14.15	6	**5B** Agricultural & Natural Biotechnology	14.00 - 14.15	45
		14.15 - 14.30	38		14.15 - 14.30	80
		14.30 - 14.45	89		14.30 - 14.45	55
		14.45 - 15.00	91		14.45 - 15.00	33
		15.00 - 15.15	122		15.00 - 15.15	11
		15.15 - 15.30	105		15.15 - 15.30	100
	6A Biomaterials & Nanotechnology	15.45 - 16.00	75	**6B** Food Technology & Engineering	15.45 - 16.00	21
		16.00 - 16.15	123		16.00 - 16.15	85
		16.15 - 16.30	82		16.15 - 16.30	86
		16. 30 - 16.45	111		16. 30 - 16.45	113
		16. 45 - 17.00	124		16. 45 - 17.00	18
		17. 00 - 17.15			17. 00 - 17.15	

ID	TITLE	SESSION
30	**Study of Metabolic Flux Distribution in Rice (Oryza sativa) Cultures for Starch Production** *Nur Aqila Syafiqa Abdul Nuri, Noor Illi Mohamad Puad, Muhammad Yusuf Abduh, Azlin Suhaida Azmi*	**Biotechnology Engineering** 3 Sessions (1A, 4A, 5A)
29	**Progress in the Detection and Quantification of Collagen-like Proteins: A Review** *Abeir Hussein Mohamed Gameil, Faridah Yusof, Azlin Suhaida Azmi and Noor Illi Mohamad Puad*	
57	**Over Expression of the Alanine Aminotransferase Gene to Improve the Nitrogen Use Efficiency in Rice cv. Inpari6** *Atmitri Sisharmini, Aniversari Apriana, Tri Joko Santoso, Rama Dhianti Pangesti, Bambang Sapta Purwoko, Nurul Khumaida and Kurniawan Rudi Trijatmiko*	
61	**Characterization of a Novel Root-specific Promoter of the OsAER1 Gene in Transgenic Tobacco** *Aniversari Apriana, Atmitri Sisharmini, Tri Joko Santoso, Sudarsono Sudarsono, Hajrial Aswidinnoor and Kurniawan Rudi Trijatmiko*	
47	**Engineering of Marine-derived Antimicrobial Peptides (mAMPs) into Improved Anti-infective Drug Leads** *Linda Sukmarini*	
28	**Primer Synthesis for Molecular Research Using Polygen DNA Synthesizer at Research Centre for Biotechnology LIPI** *Lailatul Qodria, Akhirta Atikana, Anggia Prasetyoputri, Yana Rubiyana, Neng Herawati, Masteria Yunovilsa Putra, Adi Santoso and Puspita Lisdiyanti*	
103	**Forensic Analysis on Printer Inks via Multivariate Data Analysis.** *Luqman Hafizi Mohd Zawawi, Nor Fadhillah Mohamed Azmin, Mohd Firdaus Abdul Wahab, Siti Noorjannah Ibrahim and Mohd Yusri Mohd Yunus*	
110	**A Bibliometric Analysis of Clitoria Ternatea Research** *Siti Najihah Yusof, Nor Fadhillah Mohamed Azmin, Mohd Firdaus Abdul Wahab, Munira Shahbuddin and Nurul Sakinah Engliman*	
35	**Comparison Study Between Encapsulation of Acalypha indica Linn Extracts with Chitosan-PCL and Chitosan-OA** *Maizatul Akmal Johari, Azlin Suhaida Azmi, Jamarosliza Jamaluddin, Rosnani Hasham and Fathilah Ali*	
10	**Genetic Variation of the Candidate Locus Controlling Twinning in the Beef and Diary Cattle Breeds in Indonesia** *Puji Lestari, Tri Puji Priyatno, Kristianto Nugroho, Rerenstradika Tizar Terryana, Mastur, Dani Satyawan, Adiningtyas Mula Pertiwi, Agus Tri Sudaryanto, Bess Tiesnamurti and Chalid Talib*	
36	**Determination Of Total Flavanoid And Coumarin Contents In The Extract Of Leucaena Leucocephala: The Role Of Enzymatic Hydrolysis** *Siti Nur Nadzmiah Mohd Nor, Nor Hanimah Hamidi, Wan Norlinda Roshana Mohd Nawi and Izirwan Izhab*	
76	**Extraction and Hydrolysis of Protein from Black Soldier Fly Larvae (Hermetia Illucens)** *Muhammad Yusuf Abduh, Diah Ayu Prawitasari, Ula Aulia Fitrian and Mochamad Firmansyah*	
6	**Human Enhancement or Body Modification? The Dividing Line at the Crossroads to Volitional Evolution** *Anke Bouzenita*	
38	**Continuous Assessment of Sweat Lactic Acid Secretion using Microfluidic Sweat Lactic Acid Monitoring System** *Yuto Goto, Yusuke Suzuki, Kenichiro Morisawa, Akiko Hosoyama, Yasuhiko Taira and Hiroyuki Kudo*	
89	**Computational Approaches for Evaluation of Malaria Drug Resistance in Plasmodium Species** *Aisya Nazura Azman, Fazia Adyani Ahmad Fuad, Noor Azian Md Yusuf and Nur Jannah Zulkefli*	
91	**Virtual Screening And In Silico Interaction Studies For Potential Antivirals And Diagnostics Against The Sars-Cov-2 Virus Spike Protein** *Faqihah Izzati Che Abd Aziz, Fazia Adyani Ahmad Fuad and Suriyea Tanbin*	
122	**Screening of Veterinary and Medical Importance Viruses in Rattus sp. in Klang Valley** *Abd Rahaman Yasmin, Saulol Hamid Nur Fazila, Abd Manan Siti Maisarah, Zakaria Nur Anis Aryani, Tharshaini Murugasu, Arshad Siti Suri, Wan Noor Ayuni and Mohammed Nma Mohammed*	
105	**Industrial Revolution 4.0 and Multidisciplinary Integration: Towards Biotechnology Enhancement** *Khairiah Razali and Razali Haron*	

ID	TITLE	SESSION
39	**Point-of-use Upflow Sand Filter for Rural Water Treatment using Natural Local Sand: Understanding and Predicting Pressure Drop** *Farhana Abd Lahin, Rosalam Sarbatly and Chiam Chel Ken*	**Environmental Engineering & Bioenergy** 2 Sessions (3B, 4B)
31	**Wastewater Treatment Plant Performance Analysis and Prediction using Artificial Intelligence (AI)** *Olla Nagimeldin Abdalla and Mohammed Saedi Jami*	
90	**The Adsorption of Carbon Dioxide by Metal Organic Framework for Indoor Air Quality Enhancement** *Kok Chung Chong, Sze Shin Lee, Soon Onn Lai, Hui San Thiam, Pui San Ho and Woei Jye Lau*	
95	**Activated Carbon Assisted Electrocoagulation Process for Treating Biotreated Palm Oil Mill Effluent** *Amina Tahreen, Mohammed Saedi Jami and Fathilah Ali*	
70	**Turbidity Reduction in Palm Oil Mill Effluent (POME) by Fermentation with Immobilized Aspergillus niger using Coconut Husk** *Paveethra Thegarathah, Jegalakshimi Jewaratnam and Khanom Simarani*	
78	**Evaluation of Solid-State Production of Myco-coagulant using Various Lignocellulosic Media to Reduce Water Turbidity** *Maroua Fellah, Md.Zahangir Alam, Abdullah Al-Mamun, Nassereldeen Ahmed Kabbashi and Nurul Sakinah Binti Engliman*	
120	**Recovery of Engine Oil Sludge and Preparation of Porous Carbon Pellets for Oil Spill Removal** *Yusilawati Ahmad Nor, Noor Syazwani Mohd Saufi, Syazana Ab Manaf, Nur Ayuni Jamal and Dzun Noraini Jimat*	
126	**Comparison of Biomass Fuel Usage For Generate Electricity By Using Gasification Process** *Za'Im Hadi Meskam, Maizirwan Mel and Nur Atiqah Rusli*	
79	**Simulation Of Biomass And Municipal Solid Waste Pellet Gasification Using Aspen Plus** *Amadou Diouldé Donghol Diallo, Ma'an Fahmi Rashid Alkhatib, Md. Zahangir Alam and Maizirwan Mel*	
104	**Turning Coconut Residue into Hydrochar using Hydrothermal Carbonization** *Myra Shahira Lau Abdullah and Noorashrina A Hamid*	
32	**Inclusion of Spirulina in Floating Fish Feed Production: Nutritional and Physical Quality Evaluation** *Arif Hakim, Putri Wullandari, Naila Zulfia, Tri Nugroho Widianto and Bakti Berlyanto Sedayu*	**Food Technology & Engineering** 2 Sessions (2B, 6B)
60	**Enzymatic Glycerolysis of Palm Kernel Olein and Palm Kernel Stearin in different Ratios for Monolaurin Synthesis** *Ngatirah Ngatirah, Chusnul Hidayat, Endang S. Rahayu and Tyas Utami*	
9	**The Content and Bioaccessibility of Iron on Promising Rice Lines Developed by Molecular Markers Assisted Selection** *Dwinita Utami, Endang Prangdimurti, Puji Lestari, Rerenstradika Terryana, Karden Mulya and Mastur Koeshadi*	
87	**Effect of Gamma Radiation on Endo-Xylanase and β-xylosidase Activity of Trichoderma sp MLT2J2** *Ririn Krisnawati, Muhammad Nur Cahyanto, Sardjono Sardjono, Jaka Widada, Dian Anggraini Suroto and Sugili Putra*	
84	**The Ability of Breadfruit Starch Nanoparticle-stabilized Pickering emulsion for Encapsulating Cinnamon Essential Oil** *Bovi Wira Harsanto, Supriyanto Supriyanto, Indriana Kartini and Yudi Pranoto*	
83	**Study of Bioactive Compounds and Antioxidant Activity of Salam Leaves (Syzygium polyanthum) by Ultrasonication Method on the Difference in Solvent Ratio and Time** *Bima Putra Pratama, Yudi Pranoto, Supriyadi Supriyadi and Respati Tri Swasono*	
85	**Enhancement of Indigenous Fungal Cellulase Production by Gamma rays** *Fela Laila Nur Hidayati, Muhammad Nur Cahyanto, Sardjono and Giyatmi*	
21	**The Formulation of Javanese Turmeric (Curcuma xanthorrhiza L.) in Various Food Products** *Sri Satya Antarlina, Aniswatul Khamidah and Tri Sudaryono*	
86	**Effect of Gamma Irradiation on indigenous Fungi for Enhanced Amylolytic Potential** *Ika Octariyani Safitri, Sardjono Sardjono, Kartini Megasari and Muhammad Nur Cahyanto*	
113	**The Characterization of Edible Film from Xanthan Gum and Konjac Glucomannan Loaded with Caesalpinia sappan Extract to Improve Shelf Life of Fresh Meat Slices** *Nazarni Rahmi, Nadra Khairiah and Hamlan Ihsan*	
18	**The Potency of Artemisia (Artemisia annua) and Moringa (Moringa oleifera) to Reduce Chlorpyrifos Residue on Vegetable** *Hera Nurhayati, Bagem Sembiring, Gusmaini and Ediningsih*	

ID	TITLE	SESSION
24	**Extraction of Phenolic Compound using Natural Deep Eutectic Solvent from Biomass Waste** *Ainul Husna Abdul Aziz, Nurul Sakinah Engliman, Mariatul Fadzilah Mansor and Ricca Rahman Nasaruddin*	**Chemical Engineering** 1 Session (2A)
25	**The Effect of Chemically Treated All-cellulose Composites (ACCs) with Dodecyltriethoxylsilane (DTES) Solution on the Structural-property Relationship** *Muhammad Fikri Mohd Fauzi, Samihah Salwa Md Nor and Mokhtar Mat Salleh*	
27	**Statistical Modeling of Phenol Adsorption by High Surface Area Microporous Activated Carbon From Baobab Fruit Shell by Chemical Activation Using KOH** *Radhia Nedjai, Md Zahangir Alam, Nassereldeen Ahmed Kabbashi and Ma'An Fahmi Rashid Alkhatib*	
72	**Fuzzy Logic based Temperature Control in the Production of 5-HMF from Old Coconut Water** *Norliza Abd.Rahman, Jarinah Mohd Ali and Nur Afifah Ahmad Joharee*	
43	**Performance Test of Solar – Powered Ice Maker Machine : Case Study in Bantul, Yogyakarta** *Putri Wullandari and Bakti Berlyanto Sedayu*	
68	**Modelling the Mass Loss Response of Environmentally Friendly Batik Wax Composition via Response Surface Methodology** *Sharifah Imihezri Syed Shaharuddin, Nor Busyra Abd Aziz, Nursyawalina Bacho, Nor Khairusshima Muhamad Khairussaleh and Afidalina Tumian*	
44	**Incorporation of Various Nanoclays in Semi-refined Carrageenan Film Composite** *Bakti Berlyanto Sedayu, Putri Wullandari, Dina Fransiska and Toni Dwi Novianto*	**Biomaterials & Nanotechnology** 2 Sessions (3A, 6A)
51	**Chitin Nanomaterial from Mushroom as Reinforcement for Biobased Polymer** *Mizan Izzati Mat Zin, Wan Mohd Fazli Wan Nawawi, Nurul Syazana Shamsudin and Fathilah Ali*	
50	**Microwave-Assisted Synthesis of Polylactic Acid-diol for Polyurethane as Biodegradable Packaging Mat** *Nur Izzati Binti Mohd Razali, Fathilah Binti Ali, Azlin Suhaida Binti Azmi, Tuan Noor Maznee Binti Tuan Ismail and Jamarosliza Binti Jamaluddin*	
49	**Reinforcement of Polylactic Acid (PLA) Bio-composite with Lignin from Oil Palm Empty Fruit Bunches (OPEFB) for 3D Printing Application** *Mohammad Shahrizad Pairon, Fathilah Ali, Hazleen Anuar, Farah Ahmad, Jonghwan Suhr and Mohamed Elwathig Saeed Mirghani*	
41	**Rapid Screening of Microfibrillated Cellulose Structure using Principal Component Analysis of FTIR Spectra.** *Nor Fadhillah Mohamed Azmin, Ani Liza Asnawi, Nor Fatin Nabila Mohd Nor, Dzun Noraini Jimat and Sureena Abdullah*	
75	**Effect of 45S5 Bioactive Glass on the Sintering Temperature of Titanium-Hydroxyapatite Composite** *Dayana Syafiqah Abu Bakar, Muralithran Govindan Kutty and Noor Azlin Yahya*	
123	**Effect of Stabilizers in the Synthesis of Silver Nanoparticles and Methylene Blue Oxidation** *Dzilal Amir, Nurul Sakinah Engliman, Sarina Sulaiman, Mohd Sufri Mastuli and Ricca Rahman Nasaruddin*	
82	**Ascorbic Acid Loaded PLGA Nanoparticles Gel Intended to Treat Oral Squamous Cell Carcinoma** *Nurul Ain Mohammad Hamdi, Muhammad Salahuddin Haris and Ahmad Fahmi Harun Ismail*	
111	**Modified Halloysite Nanotube (HNT) as Antimicrobial Carriers in Thermoplastic Sago Starch Nanocomposites for Wound Healing Applications** *Nader Abuhamed, Zuraida Ahmad and Norshahida Sarifuddin*	
124	**Potential of using Chitin Extracted from Shrimp Shell Wastes as Support Material of Gold Nanoclusters (AuNCs) for Catalysis** *Nabila Azirah Zakaria, Wan Mohd Fazli Wan Nawawi and Ricca Rahman Nasaruddin*	

ID	TITLE	SESSION
62	**Ethylenediamine Pretreatment to Maximize Fermentable Sugar Recovery From Various Lignocellulosic Materials** *Usame Alasali, Azlin Suhaida Azmi, Isa Karaman, Md Zahangir Alam and Noor Illi Mohamad Puad*	**Bioprocess Engineering** 1 Session (1B)
96	**Immobilization Of Rhizopus Onto Loofa Sponge As Whole-Cell Biocatalyst For Starch Fermentation** *Nur Atikah Naqiah Mohd Bakari, Azlin Azmi, Fathilah Ali and Noor Illi Mohamad Puad*	
101	**The Potential of Biomass Waste in Malaysian Palm Oil Industry: A Case Study of Boustead Plantation Berhad** *Dzun Noraini Jimat, Nur Huda Syazwani Jafri, Nor Fadhillah Mohamed Azmin, Sarina Sulaiman and Yusilawati Ahmad Nor*	
2	**Optimization of Quicklime Production from Eggshell Using Response Surface Methodology** *Salisu Nuhu*	
88	**Characterisation Of Marine Bacillus Safensis-KF402 And Optimization of Its Protease Production Using Placket-Burman Experimental Design** *Maya Dehimi, Faridah Yusof, Md Zahangir Alam, Noor Faizul Hadry and Raha Ahmad Raus*	
67	**Agro-industrial Wastes as Potential Substrates for Rhamnolipid Production by Pseudomonas aeruginosa USM-AR2** *Mohd Shafiq Nasir, Nur Asshifa Md Noh and Ahmad Ramli Mohd Yahya*	
45	**Diversity of Anti Cancer Compounds derived from Indonesian Marine Sponge** *Tutik Murniasih, Masteria Yunovilsa Putra and Asep Bayu*	**Agricultural & Natural Biotechnology** 1 Session (5B)
80	**Cytotoxicity of Hexane and Ethanol Piper sarmentosum Extracts on Human Hematopoietic Stem Cells** *Intan Zarina Zainol Abidin, Anis Nabilah Johari, Shahrul Hisham Zainal Ariffin and Zaidah Zainal Ariffin*	
55	**A Mini Review on the Antibacterial Activity of Roselle (Hibiscus sabdariffa L.) Phytochemicals** *Anggia Prasetyoputri, Siti Irma Rahmawati, Akhirta Atikana, Fauzia Nurul Izzati, Yatri Hapsari, Eris Septiana, Bustanussalam and Masteria Yunovilsa Putra*	
33	**The Chemical Composition and Amino Acid Profile of Manyung Fish (Arius thalassinus) from Subang West Java of Indonesia** *Dita Kristanti*	
11	**Seedling Protection And Barrier Crops In Chili Pepper (Capsicum Annuum L.) to Decrease Whitefly Bemisia Tabaci (Gennadius) Densities and Incidence of Pepper Yellow Leaf Curl Virus (Pepylcv)** *Bagus Kukuh Udiarto, Wiwin Setiawati and Agus Muharam*	
100	**Control of Plant Growth by Monitoring Soil Moisture, Temperature and Humidity in Dry Climate** *Nina Madzhi and Muhamad Adib Nor Akhsa*	