

Grand Challenges"

21st – 22nd February 2019 | Kuala Lumpur | Malaysia

TECHNICAL PROGRAM

DAY 01 - THURSDAY, 21ST FEBRUARY, 2019

INAUGURATION	Thursday, 21st February 2019 09.00 to 10.10						
SESSION	08.00 - 09.00	Conference Registration					
	09.00 - 09.10	Welcome Address by the Conference Convener					
		Mr. Oshadee Withanawasam (CEO, Chairman and Co - Founder - The International Institute of Knowledge Management (TIIKM), Sri Lanka)					
	09.10 - 09.20	Speech by the Conference Co - Chair					
		Dr. James Budge (University of Kent, United Kingdom)					
	09.20 - 09.30	Speech by the Conference Co - Chair					
		Dr. Edward Ooi Chien Wei (Monash University, Malaysia)					
	09.30 - 09.40	Speech by the Co - Hosting Partner					
		Dr. Kashif Ahmed (NED University, Pakistan)					
	09.40 - 09.50	Speech by the Co - Hosting Partner					
		Bolatkhan Zayadan (Al-Farabi Kazakh National University, Kazakhstan)					
	09.50 - 10.00	Launch of Conference Trailer – BIOTECH 2020					
	10.00 - 10.10	Conference Photograph					
	10.10 – 10.30	Morning Refreshments					



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KEYNOTE FORUM	Thursday, 21	Thursday, 21 st February 2019 10.30 to 12.00				
T GROTT	10.30 – 11.15	"The Importance of Technological Advances for Antibiotic Discovery: Identification of Peptidoglycan O-Acetyltransferases as Potential New Antibiotic Targets in both Gram-Positive and Gram-Negative Bacteria"				
		Dr. Anthony Clarke (University of Guelph, Canada)				
	11.15 – 12.00	"Development of a New Method to Produce High Levels of Disulphide Bonded Biopharmaceuticals and Subunit Vaccines in E. Coli"				
		Prof. Colin Robinson (Kent University, United Kingdom)				
	12.00 - 13.00	Networking Lunch				

TECHNICAL SESSION 01	BIOTECHNOLOGY AND ITS APPLICATION IN HEALTH CARE AREAS - I				
32331014 01	Thursday, 21st February 2019 13.00 to 14.20				
	13.00 - 13.20	A1	Matrix Metallo Proteinase Inhibitors — A Potential Drug Target Against Rheumatoid Arthritis - An In Vivo and In Silico Approach		
			S. Bhagavathy, Nazreen Najeeb, G. Priya, L. Anitha L, D. Shalini, (Mohamed Sathak College of Arts and Science, India)		
	13.20 - 13.40	A2	Elucidation on the Role of Selenoproteins in Wound Healing		
			Selvakumar Dharmaraj, Sneha Hariharan (FASH, Karpagam Academy of Higher Education, India)		
	13.40 - 14.00	A3	Delineating the Effect of Cissusquadrangularis on the Production of Cytokines in Human Osteoblast like SaOS-2 Cells.		
			Sridhar Muthusami ¹ , Ilangovan Ramachandran ² , Hariprasath Lakshmanan ¹ , Srinivasan Narasimhan ³ (¹ Karpagam Academy of Higher Education, India, ² University of Madras, India, ³ Chettinad Academy of Higher Education and Research, India)		
	14.00 - 14.20	A4	Gastroprotective Effects of Flavoalkaloid, 8-(2"-Pyrrolidinone-5"-Yl)- Quercetin Isolated from <i>Senecio Candicans</i> DC		
			Hariprasath Lakshmanan (Karpagam Academy of Higher Education, India)		
	14.20 - 14.40	Even	ing Refreshments		



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TECHNICAL	NATURAL PRODUCTS AND PLANT SCIENCES - I					
SESSION 02	Friday, 22 nd Fe	Friday, 22 nd February 2019 14.40 to 16.50				
	14.40 – 15.00	D1	Haplotype Analysis and Molecular Marker Development for Bacterial Leaf Blight Resistance Gene Xa13			
			D.M.L.N.K. Dissanayake ¹ , S.S. Udage ² , N.H.L.D.L.D. Nanayakkara ¹ , H.M.V.G. Herath ³ , D.V. Jayatilake ³ (¹ University of Peradeniya, Sri Lanka, ² 28, Emily Drive, Narre Warren VIC 3805, Australia)			
	15.00 – 15.20	D2	Characterization of Bacterial Leaf Blight Resistance Genes <i>Xa4</i> and <i>Xa21</i> in Rice (<i>Oryza sativa L</i> .)			
			Edirisingha I.K., Nanayakkara N.H.L.D.L., Herath H.M.V.G., Perera S.A.C.N., Jayatilake D.V. (Postgraduate Institute of Agriculture, Peradeniya, Sri Lanka)			
	15.20 – 15.40	D3	Partitioning and Preliminary Purification of Bioactive Compounds from <i>Garcinia indica</i> using 1-Propanol-Magnesium Sulphate Aqueous Two-Phase System			
			Basavaraj S. Nainegali, Regupathi Iyyaswami, Prasanna D. Belur (National Institute of Technology Karnataka, India)			
	15.40 – 16.00	D4	Pharmacological Potential of the Methanolic Extract of Hypericum Hookerianum from Palni Hills of the Western Ghats, India			
			Mahendrakumar Mani, Shiny Punalur John, Perinbam Kantharaj (Guru Nanak College, University of Madras, India)			
	16.00 - 16.20	D5	Genetic Variability and Performance of Advanced Mutants of French Bean (<i>Phaseolus vulgaris L.</i>)			
			Vishnuvardhana, Basavaraj T., Anjanappa M., Fakrudin B., Devappa V., Ashwathanarayana N.R. <i>(College of Horticulture, India)</i>			

PUBLICATION WORKSHOP	Thursday, 21 st February 2019 16.30 to 18.00					
	16.30 - 18.00	Dr. Erandathie (Erandi) Lokupitiya (Senior Lecturer, Department of Zoology and Environment Sciences, University of Colombo, Sri Lanka)				



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DAY 02 - FRIDAY, 22ND FEBRUARY, 2019

TECHNICAL SESSION 03	BIOTECHNOLOGY AND ITS APPLICATION IN HEALTH CARE AREAS - II			
	Friday, 22 nd February 2019 09.00 to 10.00			
	09.00 – 09.20	A5	Genomic Damage Profiling of Polycystic Ovarian Syndrome Using Invasive and Non Invasive Biomarkers	
			Nishu Sekar ¹ , Abilash V.G. ² , Selvakumar Dharmaraj ¹ (¹ FASH, Karpagam Academy of Higher Education, India, ² VIT University, India)	
	09.20 - 09.40	A6	ACE I/D Gene Polymorphism as Marker of PCOS Development in South Indian Cohort Women	
			Nishu Sekar ¹ , Abilash V.G. ² , Selvakumar Dharmaraj ¹ (¹ FASH, Karpagam Academy of Higher Education, India, ² VIT University, India)	
	09.40 - 10.00	A7	The Effect of Foeniculum Vulgare on Polycystic Ovarian Syndrome in a Rat Model	
			Poornima K., Pooja N. (Karpagam Academy of Higher Education, India)	
	10.00 - 10.20	Morr	ning Refreshments	

POSTER SESSION	Frid	Friday, 22 nd February 2019 10.20 to 11.00								
0.000.011	P1	Health Risk of Infectious Diseases Associated with Marine Products - Microbiological Quality and Foodborne Pathogens in Processed Seafood Products								
		B.S. Ko ¹ , H.W. Kim ¹ , J.W. Hur ¹ , H.R. Yu ¹ , Y. Yoon ² , M.S. Rhee ¹ (¹ Korea University, College of Life Sciences & Biotechnology, South Korea, ² Sookmyung Women's University, South Korea)								
	P2	Biological Metabolism of Bacillus Strains in Reconstituted Infant Formula: Unrecognized Source of Nitrite as a Health Risk								
		S.W. Park, T.J. Cho, M.S. Rhee (Korea University, College of Life Sciences & Biotechnology, South Korea)								



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P3	Synergistic Bactericidal Effects of Benzoyl Derivatives in Combination with Capric Acid against Staphylococcus Aureus
	H.W. Kim, M. S. Rhee (Korea University, College of Life Sciences & Biotechnology, South Korea)
P4	Labchip Based Multiplex Diagnosis System for the Rapid Detection of Staphylococcus Aureus, Escherichia Coli, Pseudomonas Aeruginosa, and Candida Albicans in Cosmetic Products
	J.W. Hur ¹ , T.J. Cho ¹ , S.W. Kim ² , M.S. Rhee ¹ (¹ Korea University, College of Life Sciences & Biotechnology, South Korea, ² Micobiomed Inc, South Korea)
P5	Prevalence and Key Genes Governing Gastroenteritis-Related Pathogenicity of Aeromonas Hydrophila Isolated from Marine Fish in South Korea
	S.M. Park ¹ , H.W. Kim ¹ , G.H. Seo ¹ , S.W. Park ¹ , J.E. Bae ¹ , J.H. Hwang ² , S.H. Kim ² , M.S. Rhee ¹ (¹ Korea University, College of Life Sciences & Biotechnology, South Korea, ² National Institute of Food and Drug Safety Evaluation, South Korea)
P6	Identification and Genetic Characterization of Pathogenic Vibrio Spp. (<i>Vibrio Parahaemolyticus, Vibrio Vulnificus, Vibrio Cholerae</i>) from Raw Ready-to-Eat Seafood
	H.R. Yu ¹ , H.W. Kim ¹ , J.W. Hur ¹ , B.S. Ko ¹ , Y. Yoon ² , M.S. Rhee ¹ (¹ Korea University, College of Life Sciences & Biotechnology, South Korea, ² Sookmyung Women's University, South Korea)
P7	Pathogenic <i>Arcobacter Spp.</i> with Toxin Genes from Shellfish in South Korea - Determination of Putative Virulence by the Characterization of Genotypes
	G.H. Seo ¹ , H.W. Kim ¹ , S.M. Park ¹ , S.W. Park ¹ , J.E. Bae ¹ , J.H. Hwang ² , S.H. Kim ² , M.S. Rhee ¹ (¹ Korea University, College of Life Sciences & Biotechnology, South Korea, ² National Institute of Food and Drug Safety Evaluation, South Korea)
P8	Cultivation of Cyanobacteria in Domestic Wastewater for Biodiesel Production
	Bolatkhan K. Zayadan, Aizhan A. Uservaeva, Kenzhegul Bolatkhan, Aizhan M. Bayzhigitova, Bekzhan M. Kosalbaev (<i>Al-Farabi Kazakh National University, Kazakhstan</i>)
	of Life Sciences & Biotechnology, South Korea, ² Sookmyung Women's University, Sou Korea) Pathogenic Arcobacter Spp. with Toxin Genes from Shellfish in South Korea Determination of Putative Virulence by the Characterization of Genotypes G.H. Seo ¹ , H.W. Kim ¹ , S.M. Park ¹ , S.W. Park ¹ , J.E. Bae ¹ , J.H. Hwang ² , S.H. Kim ² , M.S. Rhe (¹ Korea University, College of Life Sciences & Biotechnology, South Korea, ² Nation Institute of Food and Drug Safety Evaluation, South Korea) Cultivation of Cyanobacteria in Domestic Wastewater for Biodiesel Production Bolatkhan K. Zayadan, Aizhan A. Uservaeva, Kenzhegul Bolatkhan, Aizhan M.



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TECHNICAL SESSION 04	BIOMEDICINE ENGINEERING			
SESSION 04	Thursday, 21st February 2019 11.00 to 12.00			
	11.00 – 11.20	B1	The Effect of Phenolic Active Fraction of Ficus Deltoidea Var. Kunstleri (King) Corner on Fatty Acid-Induced Insulin Resistance Cell Models	
			Wan Nurul Adlin binti Wan Yusof, Abdul Razak bin Kasmuri, Muhammad Taher bin Bakhtiar, Norazian binti Mohammad (International Islamic University Malaysia, Malaysia)	
	11.20 – 11.40	B2	DMD Gene Mutation Identification in Duchenne Muscular Dystrophy Patients of Quetta, Balochistan, Pakistan	
			Rozeena Shaikh ¹ , Muhammad Zeeshan ¹ , Sanam Zeib Khan ¹ , Pari Gul ¹ , Paras Shehzad ² , Sajid Ali Shah ² , Nida Ajmal ¹ , Shakeela Daud ¹ , Abdul Wali ¹ and JamilAhmad ¹ (¹ Balochistan University of Information Technology Engineering and Management Sciences (BUITEMS), Pakistan, ² Combined Military Hospital, Pakistan)	
	11.40 – 12.00	В3	B-Amyrin Induces ROS Mediated Apoptosis through P38 MAPK and JNK Pathways and Facilitates Caspases Activation in HeLa Cells	
			Anburaj Jeyaraj ¹ , Tamilselvi Elango ² , Swapna Subramanian ³ , Amuthavalli Kottaiswamy ⁴ , Selvakumar Dharmaraj ⁵ (¹ Karpagam Academy of Higher Education, India, ² The First Affiliated Hospital, Anhui Medical University, Hefei, China, ³ Hindu Mission Hospital, India, ⁴ VRR Institute of Biomedical Science, India, ⁵ Karpagam Academy of Higher Education, India)	
	12.00 - 13.00	Netv	vorking Lunch	



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TECHNICAL SESSION 05	GENERAL BIOLOGICAL ENGINEERING - I			
3E3310N 03	Friday, 22 nd February 2019 13.00 to 15.20			
	13.00 – 13.20	C1	Bacterial Strains from Tanneries Effluents with Multiple Potentials: Chromium and Azo Dyes Reduction Activities	
			Tahir Iqbal, Amina Khatoon, Saira Bashir, Muhammad Kaleem Sarwar, Asma Nosheen, Aqsad Rashda, Anum Zahra (University of Gujrat, Pakistan)	
	13.20 - 13.40	C2	Utilization of Aspergillus Niger and Duckweed for the Wastewater Treatment of Nullah Lai	
			Mehwish Jamil, Maham Fazal (Fatima Jinnah Women University, Pakistan)	
	13.40 - 14.00	C3	Diversity, Phylogeny and Biosynthesis of Au Nanoparticle of Culturable Endophytic Fungi Associated with Zingiber Cassumunar Roxb.	
			Robert Thangjam, Sophiya Devi Lamabam (Mizoram University, India)	
	14.00 – 14.20	C4	Degradation of Triclosan from Domestic Wastewater by Biosurfactant Produced from <i>Bacillus licheniformis</i>	
			Jayalatha N.A., C.P. Devatha (National Institute of Technology Karnataka, India)	
	14.20 - 14.40	C5	Effect of Green Synthesized Copper Nanoparticles in Comparison with Copper Salt on the Dyeability of Cotton Fabric Towards Sulphur Dye	
			Kashif Ahmed, Muhammad Amir Qureshi, Shumaila Meraj (NED University of Engineering and Technology, Pakistan)	
	14.40 – 15.00	C6	Synthesis and Nematicidal Activity of Derivatives of Oleanolic Acid	
			Anjum Ayub, Kashif Ahmed, Ahmed Abdullah, Mahnoor Nafees (NED University of Engineering & Technology, Pakistan)	
	15.00 – 15.20	Even	ing Refreshments	



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TECHNICAL SESSION 06	GENERAL BIOLOGICAL ENGINEERING - II				
52532011 00	Friday, 22 nd February 2019 15.20 to 16.20				
	Chaired by				
	15.20 – 15.40	C7	Osteological Characterization of the Genus Puntius (Teleostei: Cyprinidae) Recorded from Six River Systems of Southern Western Ghats, India		
			Anbu Aravazhi Arunkumar (Karpagam Academy of Higher Education, India)		
	15.40 – 16.00	C8	Physiological and Genomic Insights into the Nitrite-Producing Geobacillus Stearothermophilus in the Processing Lines of Powdered Infant Formula		
			T.J. Cho, M.S. Rhee (Korea University, College of Life Sciences & Biotechnology, South Korea)		
	16.00 - 16.20	C9	Surface Modification of Bacterial Plastics, Poly (3- Hydroxybutyrate-co-4-Hydroxybutyrate) Scaffolds for Biomedical Applications		
			Vigneswari S. ¹ Amirul A.A. ² (¹ Universiti Malaysia Terengganu, Malaysia, ² University Science Malaysia, Malaysia)		



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TECHNICAL SESSION 06	NATURAL PRODUCTS AND PLANT SCIENCES - II			
52551011 00	Friday, 22 nd Fe	bruary	y 2019 16.20 to 17.40	
	16.20 - 16.40	D6	Physical Properties of Ultrasonically Treated Carrot Juice	
			Marko Škegro, Ema Jambrović, Damir Ježek, Sven Karlović, Filip Dujmić, Marko Marelja, Mladen Brnčić and Tomislav Bosiljkov (University of Zagreb, Croatia)	
	16.40 - 17.00	D7	Influence of Nutrients on Growth and Yield of Yard Long Bean (Vigna Anguiculta Subsp. Sesquipedalis L.)	
			Anjanappa M., Anil Kumar S., Manjunatha Gowda D.C. (College of Horticulture, UHS Campus, India)	
	17.00 – 17.20	D8	Bio-Intensive Management of Late Blight of Potato caused by Phytophthora Infestans (Mont.)	
			Devappa V., Mahaveer N. Shebannavar., Anjaneya Reddy B., Ramachandra R.K., Prasad kumar <i>(College of Horticulture, UHS Campus, India)</i>	
	17.20 – 17.40	D9	Effect of Plant Growth Regulators on Growth, Flowering, Quality and Corm Multiplication of Gladiolus (<i>Gladiolus Hybridus L.</i>)	
			Munikrishnappa P.M., Ashwini, A., Kulkarni B. S., Kumar R., and Taj A. (College of Horticulture, UHS Campus, India)	

CONFERENCE CLOSURE	Friday, 22 nd February 2019 17.40 to 18.10	
	17.40 – 18.00	Conference Concluding and Awarding Ceremony
	18.00 - 18.10	Vote of Thanks
		Mr. Oshadee Withanawasam (CEO, Chairman and Co-Founder - The International Institute of Knowledge Management (TIIKM), Sri Lanka)



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Conference Co - Chair
Du James Budes
Dr. James Budge
(University of Kent, United Kingdom)
Conference Co - Chair
Dr. Edward Ooi Chien Wei
(Monash University, Malaysia)
Keynote Speaker
Dr. Edward Ooi Chien Wei
(Monash University, Malaysia)
Keynote Speaker Dr. Anthony Clarke
(University of Guelph, Canada)
Conference Convener
Mr. Isanka P. Gamage
International Institute of Knowledge Management, Sri Lanka)
Conference Secretary
Mr. R.M. Keerthi Chandana
International Institute of Knowledge Management, Sri Lanka)

Evaluation Panel ***********



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Organizer











Academic Partner

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Session 1: Dr. Antony Clarke delivers on technological advance of antibiotics discovery



Session 2: Participants listening to the lecture

