

TECHNICAL PROGRAM

DAY 01 – THURSDAY 08TH MARCH 2018

INAUGURATION SESSION

Thursday, 08th March 2018 | 08.00 to 10.20 | (Mont Blanc)

08.00 – 08.45	Conference Registration
09.00 – 09.15	Lighting of the Oil Lamp and National Anthem
09.15 – 09.25	Welcome Address by the Conference Convener Mr. Isanka P. Gamage (<i>Co-Founder & Managing Director - The International Institute of Knowledge Management (TIKM), Sri Lanka</i>)
09.25 – 09.40	Speech by the Conference Co – Chair Dr. James Budge (<i>University of Kent, United Kingdom</i>) on behalf of Prof. Mark Smales Conference Co-Chair Biotech 2018
09.40 – 09.55	Speech by the Conference Co – Chair Dr. Chamari Hettiarachchi (<i>Senior Lecturer, Department of Chemistry, University of Colombo, Sri Lanka</i>)
09.55 – 10.05	Launch of the Conference Trailer - BioTech 2019
10.05 – 10.20	Conference Photograph

10.20 – 10.40	Morning Refreshments
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KEYNOTE FORUM

Thursday, 08th March 2018 | 10.40 to 12.10 | (Mont Blanc)

10.40 - 11.30	"The Fascinating World of Discovery" Prof. Atta – Ur – Rahman (<i>Professor Emeritus/Patron-in-Chief, International Center for Chemical and Biological Sciences (H. E. J. Research Institute of Chemistry and Dr. Panjwani Center for Molecular Medicine and Drug Research) University of Karachi, Karachi</i>)
11.30 - 12.10	"Molecular Mechanisms of Yeast Cell Wall Biosynthesis and How Can We Use It to Engineer the Surface of the Cell" Prof. Dr. Vladimir Mrša (<i>University of Zagreb, Croatia</i>)

POSTER SESSION

Thursday, 08th March 2018 | 12.10 to 12.40 | (Mont Blanc)

	P1	Determination of Desirable Attributes of a Member of <i>Burkholderia cepacia</i> Complex as a Biological Control Agent of Plant Pathogenic Fungi Bulathsinalage V.N.D ¹ De Costa D.M ¹ (<i>University of Peradeniya, Sri Lanka</i>)
	P2	Molecular Characterization of Genus <i>Puntius</i> using Mitochondrial Gene Markers from Rivers of Southern Western Ghats, India

		Anbu Aravazhi Arunkumar (<i>Karpagam Academy of Higher Education, India</i>)
12.10 – 12.40	P3	Development of Microbial Inoculum to Enhance the Degradation of Organic Waste J. K. Anuradha De Silva ¹ , G. A. U. Jayasekera ¹ C. M. Nanayakkara ¹ (¹ <i>University of Colombo, Sri Lanka</i>)
	P4	Enhanced Production of <i>Bacillus thuringiensis</i> Subspecies <i>Israelensis</i> Delta Endotoxin by Supplementation of Rotten Mango Juice and Fish-Amino Acid as Medium Supplements C. Gopinathan (<i>University of Calicut, India</i>)
	P5	Rheological Properties and Antioxidant Activity of High Pressure Processed Citrus Juices Karlović S ¹ , Bosiljkov T ¹ , Dujmić F ¹ , Troha F ¹ , Škegro M ¹ , Marelja M ¹ , Brnčić M ¹ , Ježek D ¹ (¹ <i>University of Zagreb, Croatia</i>)
	P6	Benign Fabrication of Copper Nanoparticles from Flower Extract of <i>Cassia Auriculata</i> L. SelvaKumar D ¹ , Poorna Chandran G ¹ , Priyadharshini T ¹ , Rajkuberan C ¹ , Nishu Sekar ¹ (¹ <i>Karpagam Academy of Higher Education, India</i>)
	P7	Biosynthesis of Silver Nanoparticles using Leaf Extract of <i>Zingiber officinale</i> (Ginger), <i>Allium cepa</i> Var. <i>aggregatum</i> (Shallot), <i>Capsicum annum</i> (Bird’s Eye Chili) and <i>Curcuma longa</i> (Turmeric):Determination and Comparison of Antioxidant, Antimicrobial Properties With Leaves Water Extraction Peramuna Y.D.B ¹ , Kandiah M ¹ (¹ <i>BMS, School of Science, Sri Lanka</i>)
	P8	An iridoid glycoside from the Sri Lankan medicinal plant <i>Wendlandia bicuspidate</i> Sanjeevan Rajendran ^{1,2} , Supun Mohotti ² , E.D. de Silva ² , Ulf Göransson ¹ , C.M.Hettiarachchi ² ,Sunithi Gunasekera ¹ (¹ <i>Uppsala University Sweden</i> , ² <i>University of Colombo, Sri Lanka</i> ,)
	P9	The Application of Surfactants in Volatile Organic Compound (VOC) Removal Layan Haddad, Zaroook Shareefdeen, Hussain Ahmed (<i>American University of Sharjah, UAE</i>)
	P10	The Study of Genetic Variability in Related to Efficiency of Zinc optake in Different Genotypes of <i>Triticum aestivum</i> L. Abdollah Hassanzadeh Ghorttapeh ¹ , Aziz Majidi ¹ , Javad Mozafari ² ,Abdohosin Zyaeeian ³ (<i>West Azarbaijan Agricultural and Natural Resources Research, Iran, Education and Extinction Organization, Tehran Iran</i>)

12.40 - 13.40	Networking Lunch
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TECHNICAL SESSION 01: APPLICATION OF BIOCHEMISTRY AND MOLECULAR BIOLOGY TO BIOTECHNOLOGY I

Thursday, 08th March 2018 | 13.40 to 16.00 | (Mont Blanc)

Chaired by Dr. Anbu Arunkumar (*Karpagam Academy of Higher Education, India*)

13.40 - 14.00	A1	Development of E. coli Platforms for Diterpene Synthesis M. Fuchs (<i>Technical University of Munich, Germany</i>)
14.00 - 14.20	A2	Functional and Structural Characterization of Setaria Digitata Novel Protein (SDNP) M. Gowthami ¹ , K. Varmila ¹ , Gayathri. N. Silva ¹ , R. S. Dassanayake ¹ (<i>¹University of Colombo, Sri Lanka</i>)
14.20 – 14.40	A3	Analysis of Papillary Thyroid Carcinoma Associated Biomarkers and Genetic Abnormalities to Determine the Risk of Developing Cancer in Patients Diagnosed with Different Thyroid Disorders Shirani P ¹ , Dhanushika T ¹ , Moulana F.I ¹ , Priyani A.A.H. ¹ , de Silva M.C.V ¹ , Dassanayake R.S ¹ (<i>¹University of Colombo, Sri Lanka</i>)
14.40 - 15.00	A4	Behavioral and Biochemical Effects of Banana (<i>Musa sapientum L</i>) Peel Extract Following Noise Stress in Male Mice Samad N ¹ Muneer A ¹ (<i>¹Bahauddin Zakariya University, -Pakistan</i>)
15.00 - 15.20	A5	Phytoremediation Potential of Legume Plant <i>Cajanus cajan</i> (Pigeon Pea) on Petroleum Sludge Contaminated Soil Allamin I. A ^{1,2} , Ahmad S. A ¹ , Yasid N. A ¹ Abdullah S. R. S ³ , Halmi, M. I. E ⁴ , Shukor, M. Y ¹ (<i>¹Universiti Putra Malaysia, Selangor, Malaysia, ²University of Maiduguri, Nigeria, ³Universiti Kebangsaan, Malaysia</i>)
15.20 - 15.40	A6	Response Surface-Based Optimization and Kinetic Studies of Phenol Degradation by <i>Alcaligenes sp. AQ5-02</i> Abubakar Aisami ^{1,2} , Nur Adeela Yasid ¹ , Wan Lutfi Wan Johar ¹ , Siti Aqlima Ahmad ¹ , Mohd Yunus Shukor ¹ (<i>¹Universiti Putra Malaysia, Malaysia, ²Gombe State University, Nigeria</i>)
15.40 - 16.00	A7	Isolation and Identification of Cadmium Sensing Regulator – (<i>cadC</i>) from <i>Bacillus megaterium</i> strain TWSL-4 W.M.N.H Kumari ¹ , C.D Wijayarathna ¹ N.V Chandrasekharan ¹ (<i>¹University of Colombo, Sri Lanka</i>)

16.00 - 16.20	Evening Refreshments
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WORKSHOP

Thursday, 08th March 2018 | 16.30 to 17.30 | (Mont Blanc)

16.30 - 17.30	Workshop on “ Medicinal Plants as a Source of New Medicines ” by Prof. Atta – Ur – Rahman (<i>Professor Emeritus/Patron-in-Chief, International Center for Chemical and Biological Sciences (H. E. J. Research Institute of Chemistry and Dr. Panjwani Center for Molecular Medicine and Drug Research) University of Karachi, Karachi</i>)
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19.00 Onwards	Cultural Show and Networking Dinner hosted by TIKM at Raja Bojun
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3rd International Conference on Bioscience and Biotechnology (BioTech - 2018)

“Pursuing innovation in Bioscience and Biotechnology”

08th – 09th March 2018 in Colombo, Sri Lanka

DAY 02 – FRIDAY 09TH MARCH 2018

TECHNICAL SESSION 02: BIOMEDICINE ENGINEERING

Friday, 09th March 2018 | 09.00 to 09.40 | (Mont Blanc)

Chaired by Dr. Selvakumar Dharmaraj (*Karpagam Academy of Higher Education, India*)

09.00 - 09.20	B1	Characterization of Plant Growth-Promoting Bacteria (PGPB) Isolated from the Rhizosphere of ALFALFA (<i>Medicago sativa L.</i>) Khan M.M.A ¹ , El Omri A ¹ , Kabli SA ¹ , Bahieldin A ¹ , Al-Garni S.M.S ¹ (<i>King Abdulaziz University, Saudi Arabia</i>)
09.20 - 09.40	B2	Environmental Risk Factors for Bacteriological Contamination in Urban Drinking Water Wells in Jaffna Municipal council area S.Sivathanan ¹ , S.Saravanan ¹ , K.Gunalan ¹ (¹ <i>National Water Supply and Drainage Board, Sri Lanka</i>)

KEYNOTE FORUM

Friday, 09th March 2018 | 09.40 to 10.20 | (Mont Blanc)

09.40 - 10.20	"Arabidopsis to Rice: Applying Knowledge Gained from Model Plant to Enhance Agriculturally Important Crop Plants" Dr. Chamari Hettiarachchi (<i>University of Colombo, Sri Lanka</i>)
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10.20 – 10.40	Morning Refreshments
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KEYNOTE FORUM

Friday, 09th March 2018 | 10.40 to 11.20 | (Mont Blanc)

10.40 - 11.20	"New Challenges for Mammalian Expression Systems and Cell Engineering Strategies Applied to overcome These" Dr. James Budge, (<i>University of Kent, United Kingdom</i>) on behalf of Prof. Mark Smales, (<i>University of Kent, United Kingdom</i>)
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PLENARY SPEECH

Friday, 09th March 2018 | 11.20 to 11.50 | (Mont Blanc)

11.20 - 11.50	"Translating Stem Cell Research To Cardiovascular Therapy " Dr. Anuradha Dhanasekaran (<i>Anna University, India</i>)
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**TECHNICAL SESSION 03: APPLICATION OF BIOCHEMISTRY AND MOLECULAR
BIOLOGY TO BIOTECHNOLOGY II**

Friday, 09th March 2018 | 11.50 to 12.50 | (Mont Blanc)

Chaired by Dr. Kashif Ahmed (*University of Engineering & Technology, Pakistan*)

11.50 – 12.10	A8	Efficient Heterotrophic Mangrove Bacteria for Carbon Sequestration through Microbially Induced Calcium Carbonate Precipitation (MICP) Nathan Vinod Kumar ¹ , Parvathi Ammini ¹ , Jasna Vijayan ¹ (¹ <i>National Institute of Oceanography, India</i>)
12.10 – 12.30	A9	Sirna Mediated RNA Interference of Novel Parasitic Nematode-Specific Protein of <i>Setaria Digitata</i> In <i>Culex Quinquefasciatus</i> Showed Molting and Movement Detects and Development Arrest Somarathne M.B.C.L (<i>University of Colombo, Sri Lanka</i>)
12.30 – 12.50	A10	High Throughput Screening of Bioactive Secondary Metabolites in Sri Lankan Medicinal Plants by Microfractionation and Targeted Isolation of Antibacterial Flavonoids Sanjeevan Rajendran ^{1,2} , Supun Mohotti ^{1,2} , Taj Muhammad ¹ , Adam A.Strömstedt ¹ , Achyut Adhikari ³ , E.D. de Silva ² , Ulf Göransson ¹ , C.M.Hettiarachchi ² , Sunithi Gunasekera ¹ (¹ <i>Uppsala University Sweden</i> , ² <i>University of Colombo, Sri Lanka</i> , ³ <i>University of Karachi, Pakistan</i>)

12.50 - 13.50	Networking Lunch	
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**TECHNICAL SESSION 04: APPLICATION OF BIOCHEMISTRY AND MOLECULAR
BIOLOGY TO BIOTECHNOLOGY III**

Friday, 09th March 2018 | 13.50 to 15.10 | (Mont Blanc)

Chaired by Dr. Pavan Jutur (*International Centre for Genetic Engineering and Biotechnology, India*)

13.50 – 14.10	A11	Study of Spring Wheat Varieties for Identification of Forms Resistant to Cadmium Alybayeva R.A ¹ , Mulyukova M.F ¹ , Bektiyar A.E ¹ , Kruzhayeva V.I ¹ , Atabayeva S.D ¹ , Asrandina S.S.H ¹ (¹ <i>Kazakh National University named after al-Farabi, Almaty, Republic of Kazakhstan</i>)
14.10 - 14.30	A12	Antioxidant and Glycemic Regulatory Properties of Blue Pea (<i>Clitoria ternatea</i> L.) Flower Extract S.A.T. Lakshan ¹ , N.Y. Jayanath ¹ , W.P.K.M. Abeysekera ² , W.K.S.M. Abeysekera ³ (¹ <i>University of Peradeniya, Sri Lanka</i> , ² <i>Industrial Technology Institute, Sri Lanka</i> , ³ <i>University of Colombo, Sri Lanka</i>)
14.30 – 14-50	A13	Enhanced Production, Purification and Characterisation of Industrial Enzyme by <i>Penicillium lilacinum</i> (Thom, 1910) Kashif Ahmed (<i>NED University of Engineering & Technology, Pakistan</i>)
14.50 - 15.10	A14	Polyamine and Mycorrhiza based Mitigation of Cadmium Toxicity <i>Insorghum vulagre</i> L.

		Kumar Prasann ¹ , Dwivedi Padmanabh ² (¹ Lovely Professional University, India, ² Banaras Hindu University, India)
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TECHNICAL SESSION 05: GENERAL BIOLOGICAL ENGINEERING

Friday, 09th March 2018 | 15.10 to 16.50 | (Mont Blanc)

Chaired by Dr. D. N. Vinod Kumar (*National Institute of Oceanography-CSIR, India*)

15.10 - 15.30	C1	In Silico Construction and Structure Validation of Humanized Aldolase Catalytic Antibody 38C2 Sampath J.A.L.I ¹ , Japahuge A.N.L ¹ , Jayakody R.S. ¹ (¹ University of Sri Jayewardenepura, Sri Lanka)
15.30 - 15.50	C2	iOMICS: New Paradigm in Algal Biotechnology Pannaga Pavan Jutur (<i>International Centre for Genetic Engineering and Biotechnology, India</i>)
15.50 - 16.10	C3	Whether Mankind has a Chance of Succour from the Plant Kingdom in Neurodegeneration? An In-Silico Investigation S. Thiruchittampalam ¹ , S. Weerasinghe ¹ (¹ University of Colombo, Sri Lanka)
16.10 - 16.30	C4	Proving the Efficacy of Mangiferin as a Neuroprotective Drug using Docking Studies Pavitra Singh ¹ , Rohini Samadarsi ¹ , Debjani Dutta ¹ (¹ National Institute of Technology, India)
16.30 - 16.50	C5	Identification and In-silico Characterization of a Novel HindIII isoschizomer from a Pseudomonas spp S.N.J. Pathirana ¹ , M.Kajan ¹ , D.A.S. Elvitigala ¹ , G.H.C.M. Hettiarachchi ¹ , C.M. Nanayakkara ¹ , R.G.S.C. Rajapakse ² , N.V. Chandrasekharan ¹ (¹ University of Colombo, Sri Lanka, ² University of Peradeniya, Sri Lanka)

16.50 - 17.10	Evening Refreshments
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Conference Closure

Friday, 09th March 2018 | 17.10 to 17.50 | (Mont Blanc)

17.10 - 17.40	Conference Concluding and Awarding Ceremony
17.40 - 17.50	Vote of Thanks by Mr. Duminda Koralagamage (<i>Assistant General Manager – The International Institute of Knowledge Management (TIKM), Sri Lanka</i>)



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“Pursuing innovation in Bioscience and Biotechnology”

08th – 09th March 2018 in Colombo, Sri Lanka

Saturday, 10th March 2018 | Post Conference Tour (Optional)

Conference Co - Chair

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Prof. Mark Smales

(University of Kent, UK)

Conference Co - Chair

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Dr. Chamari Hettiarachchi

(University of Colombo, Sri Lanka)

Conference Convener

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Mr. Isanka P. Gamage

(The International Institute of Knowledge Management, Sri Lanka)

Conference Secretariat

.....

Ms. Asha Ratnayake

(The International Institute of Knowledge Management, Sri Lanka)