

# SciCon CTBio-2017

## August 21-23, 2017, Cochin, India

### PLENARY LECTURES

SLOT CODE	TITLE, AUTHOR(S) AND AFFILIATION
PL-01	<b>Plants intelligence</b> Prof.( Dr.) BN Sathyanarayana GKVK, University of Agricultural Sciences, Bangalore, India
PL-02	<b>Engineering at the nanoscale: a strategy for developing high performance functional biomaterials</b> Prof.( Dr.) Sabu Thomas Centre for Nanoscience and Nanotechnology, School of Chemical Sciences, Mahatma Gandhi University, Kottayam, India
PL-03	<b>Cancer Stem Cells—Perspectives on Current Status and Future Directions</b> Dr. Suresh Kumar National Cancer Institute - National Institute of Health <sup>TM</sup> 9000 Rockville Pike Bethesda, Maryland 20892, USA
PL-04	<b>Future academic strategies for higher education in Horticulture</b> Prof.( Dr.) N. Basavaraja, Professor of Horticulture and Dean Post Graduate Studies, University of Horticulture Sciences, Udyanagiri, Navanagar, Bagalkot – 587104, India
PL-05	<b>Marine Microbes – a potential goldmine for novel bioactive compounds – strategies for discovery and development</b> Prof.( Dr.) A.A. Mohamed Hatha Cochin University of Science and Technology Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, Lakeside Campus, Fine Arts Avenue, Cochin – 682 016, India
PL-06	<b>3D bioprinting: ‘Print your own organs’</b> Dr. Shiny Velayudhan, Department of Biomaterials Science and Technology, Biomedical Technology wing, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum – 695 012, India
PL-07	<b>When Machines Become Intelligent</b> Dr. Ninan Sajeeth Philip, St. Thomas College Kozhencherry-689641, India
PL-08	<b>Green coffee with enriched antioxidants as nutraceuticals in food formulations</b> Dr. Pushpa S Murthy CSIR-Central Food Technological Research Institute Mysuru- 570020, India

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SLOT CODE	TITLE, AUTHOR(S) AND AFFILIATION
PL-09	<b>Structurally modified metal nano particles for living cell bioimaging application</b> Prof.( Dr.) T. Daniel Thangadurai and N. Manjubaashini Sri Ramakrishna Engineering College, Coimbatore – 641 022, Tamilnadu, India
PL-10	<b>Biorobotics</b> Prof.( Dr.) S M Gopinath Acharya Institute of Technology, Bangalore
PL-11	<b>Molecular therapeutics to dengue virus infection</b> Dr. Sreekanth Gopinathan Pillai Mahidol University, Faculty of Medicine Siriraj Hospital Wang Lang Road, Bangkok Noi, Bangkok, Thailand-10700.
PL-12	<b>Coconut bio-fuel-a new renewable energy source for sustainable fuel economy</b> Prof.( Dr.) C.Mohankumar SCMS Institute of Bioscience and Biotechnology Research & Development (SIBBR&D), Cochin – 682033, India

### ORAL PRESENTATIONS

#### Animal Bioscience

SLOT CODE	TITLE AND AUTHOR(S)
ABS-01	<b>Histological study on the effect of chemically engineered titanium dioxide nanoparticles on <i>Oreochromis niloticus</i></b> Bincy Elsa Babu and Ani Kurian
ABS-02	<b>Study on Spider diversity and Web types of two agro ecosystems in Perumbavoor, Kerala, India</b> Linta Joseph and Ambily Elizebeth George
ABS-03	<b>Comparative assessment of diversity and nesting guild structure of dung beetles- Island versus mainland</b> M.F Divya and K.V Vinod
ABS-04	<b>Effects of chemically engineered TiO<sub>2</sub>400, TiO<sub>2</sub>-P25, TiO<sub>2</sub>-La-3, NiO400, TiO<sub>2</sub>-CoPc and TiO<sub>2</sub>-FePc on <i>Eudrilus eugeniae</i></b> Betsy Chacko Mathew and Ani Kurian

#### Biotechnology and Biochemistry

BB-01	<b>Phenotypic and molecular screening of traditional rice varieties for blast and sheath blight resistance</b> Amulya R L, K.M. Harinikumar, Deepak, C. A, Umashankar. N, Manoj Kumar. H. B, Ayesha Munaveri, Vinayak Thuraidar
BB-02	<b>Aromatase inhibitor(s):potential clinical use in ER-alpha-positive breast cancer</b> Ranjith Kumavath, Aneesh C.Vand Alan Prem Kumar

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BB-03 **Molecular analysis of sheath blight QTLs in rice**  
Vinayak Turaidar Harini Kumar, K.M. Rajanna M.P, Deepak, C.A. Manoj Kumar, H.B. Amulya. R.L and Ayeesha Munawery

BB-04 **Rhizoremediation of plastic by *Colocasia esculenta***  
Umeshkumar K.U and Sareen Sarah John

### Computational Biology

CB-01 **Anti-diabetic drug development targeting PEPCK**  
Asim Kumar Dutta and N.C.Talukdar

### Energy Bioscience

EBS-01 **Evaluation of biomass and lipid content in the isolated algal strains from Western Ghats**  
K. M. Harinikumar and Sampad Swarup Samal

### Ecology and Environment Science

EES-01 **Process optimization and characterization for enhanced production of chromate reductase from *Bacillus amyloliquefaciens* for bioremediation of hexavalent chromium**  
B. P. Rath, S. Das, P. K. Dasmohapatra and H. N.Thatoi

EES-02 **Diversity analyses of marine and brackish water ammonia oxidizing consortia generated for activating nitrifying bioreactors in Recirculating aquaculture systems**  
Preena.P.G, Rejish Kumar V.J and I.S. Bright Singh

EES-03 **The lytic potential of broad spectrum bacteriophages *in vitro* and *in vivo* for biocontrol of *Vibrio harveyi* in Aquaculture environment**  
I.S. Surekhamol and I.S. Bright Singh

EES-04 **Invertebrate diversity pertaining to sacred grove ecosystems- a case study from central Kerala, India**  
Gigi K. Joseph

EES-01 **A study on the effect of plywood factory effluents on the water quality of downstreams and nearby wells in Perumbavoor, Kerala, India**  
Athira M. and Gigi K. Joseph

EES-06 **A study on the butterfly diversity in Periyar tiger reserve, Kerala, India**  
Arya M S and Gigi K. Joseph

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<b>SLOT CODE</b>	<b>TITLE AND AUTHOR(S)</b>
EES-07	<b>A study on the status and diversity of spiders in Periyar Tiger Reserve, Kerala, India</b> Aswathy S., K. V. Vinod and Gigi K. Joseph
EES-08	<b>Preliminary Study of Herpetofaunal Status and Diversity in Periyar Tiger Reserve, Kerala</b> Anju B Kanjirakkattu, Athira Abhayadas, Dilmol Varghese, Gigi K Joseph and K V Vinod
EES-09	<b>Fisheries profile in the river Ganga from Haridwar to Patna</b> Syed Shabih Hassan and R. K. Sinha
EES-10	<b>Biosorption of hexavalent chromium by agriculture waste using mutated strain of bacteria</b> Abhilash Herekal, Karthik B. S., R. V. Kavitha and Sasmita Sabat

### **Food and Nutritional Science**

FNS-01	<b>Natural energy supplement developed with passion fruit for diabetic patients</b> Sunitha Poullose, Athira D and Achamma Thomas
FNS-02	<b>Valorisation of Green Coffee processed Spent for value addition</b> Glory Martha S, Beulah K C, Devendra J Haware, Ramalakshmi K and Pushpa S Murthy
FNS-03	<b>Green coffee with enriched Probiotics, synergy, stability and survivability</b> James D Bound, Beulah K C and Pushpa S Murthy
FNS-04	<b>Production and Sensory Evaluation of Muffins Fortified with Date seed powder</b> Afreem Asif and Harshita

### **Industrial Bioscience**

IBS-01	<b>A novel halophilic extracellular lipase with both hydrolytic and synthetic activities</b> Kiptoo Geoffry and Rajeshwara N. Achur
IBS-02	<b>Production of biodegradable plastic by polyhydroxybutyrate (PHB) accumulating bacteria isolated from municipal solid wastes</b> Ashika Raveendran and Sareen Sarah John

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### Microbial Science

**SLOT  
CODE**

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- MBS-01 **Potential application of LasA protease from *Pseudomonas aeruginosa* MCCB 123 in bacterial DNA extraction**  
Divya Jose, Jayesh P, Prem Gopinath, A Mohandas and I. S. Bright Singh
- MBS-02 **Screening of Microbial starter culture to regulate coffee fermentation**  
Siridevi G B and Pushpa S Murthy
- MBS-03 **Enhanced flavour of coffee by acid carboxy peptidase produced by *aspergillus oryzae***  
Sneha H P, Jayalakshmi E, Rastogi N K, Basavaraj K, Ken-Ichi Kusumoto and Pushpa S Murthy
- MBS-04 **Remediation of wastewater and biomass production for biodiesel Preliminary antiviral prospective of *Tinospora cordifolia* on hsv-1**  
Gopinath S. M, Pruthvish Reddy, Varsha Gangadharan and Purushotham K M
- MBS-05 **Enumeration and characterization of Indole acetic acid producing bacteria from rhizosphere soil in Oman and its effect on plant growth**  
Ranjit Kanjur, Jokha AhmedYousuf Al-Dughashi, Laila Rashid Al-Alawi, Thuraya said Al-Dahmani, Manal Salim Al-Suleimani and Rahil Kalfan Al-Hashmi

### Marine and Fisheries Science

- MFS-01 **Antitumour activity of the ink extract of Cuttlefish, *Sepia Pharaonis* Ehrenberg**  
Priya Senan V, P.M Sherief and J. Rajasekharan Nair
- MFS-02 **Bioremediation of aqua culture system using probiotic bacteria**  
Gopinath S. M., Ismail Shareef M, Ramya R and Ashwini S

### Plant and Agricultural Science

- PAS-01 **Path towards genetic diversity analysis and evaluation of blast resistance genes in popular varieties of paddy**  
Sanjana.N
- PAS-02 **Genetic diversity studies in bird of paradise (*Strelitzia reginae*) by D2 analysis of progines as influenced by summer season**  
Airadevi P. Angadi<sup>\*1</sup>, B. S. Reddy<sup>2</sup>, R. C. Jagadeesha<sup>1</sup>, Balaji S. Kulkarni<sup>3</sup> and S. Nishani
- PAS-03 **Genetic diversity assessment among advanced breeding lines of castor (*Ricinus communis* L.)**

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Vinay S. Patted, Shankergoud, I. and Prabhakaran, A. J.

SLOT CODE	TITLE AND AUTHOR(S)
PAS-04	<b>Intercropping of solonaceous vegetables in mulberry- a profitable way to farming community</b> Vishaka G. V., Bharath Raj H. R., Narayanaswamy T.K. and Harinikumar K. M.
PAS-05	<b>Standardization of softwood grafting techniques in sapota (<i>Manilkara achras</i> L.) on invigorated khirni rootstock under polyhouse and shade net conditions</b> Nitish H.T. and Venkatesha Murthy P.
PAS-06	<b>Effect of pre-harvest sprays of silicon and calcium salts on yield, quality and physico-chemical characteristics of mango cv. Mallika</b> Vidya, A. and G.S.K. Swamy
PAS-07	<b><i>Acalolepta nivosa</i> White, 1858 (Coleoptera: Cerambycidae) as a new pest of Jackfruit (<i>Artocarpus heterophyllus</i> Lam.)</b> Gavas Ragesh, Francesco Vitali, Aswini A., Manjusha K. and Pushpalatha P.B.
PAS-08	<b>Mutagenic studies of phosphate solubilizing organism and its effect on growth of soyabean</b> Gopinath S.M., Pruthvish Reddy, Liny P and Ashwini S.
PAS-09	<b>Plant growth-promoting bacterial diversity in Jhum agro-ecosystems at different jhumcycles of Mizoram, India</b> Kamal Das, Asim Kumar Dutta, Manashi Das, and N.C. Talukdar
PAS-10	<b>Somatic embryogenesis induced from cultured leaf tissues of <i>Coffea arabica</i> L cv Catimor hybrid.</b> Jeena Devasia, B. Muniswamy and M. K. Mishra
PAS-11	<b>Screening of transferability of rice molecular markers in Sorghum</b> Krupa, K. N., Ningaraj Dalawai, Shashidhar H. E., Harinikumar K. M. and Vijaya Kumara Swamy
PAS-12	<b>Response of Gamma rays and Ethyl methane sulphonate (EMS) on seedling characters of <i>Gladiolus</i> cultivar Ethyl cav cole.</b> Archana B. Bhajantri and V.S.Patil
PAS-13	<b>Identification of best culture medium for microalgae production</b> Ningaraj Dalawai., Manoj Kumar H.B., Harini Kumar K.M. and Krupa, K.N.
PAS-14	<b>High yielding cowpea variety DC-15</b> S.M.Purushothaman, A.Atheena and B.Ayana

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- PAS-15 **Influence of foliar application of micronutrients on yield and quality of Aonla (*Emblica officinalis* Gaertn.) cv. Neelam (NA-7)**  
Abhijith Y. C, Dinakara Adiga J and Kishor H

### Phytopharmacology science

- PPS-01 **Evaluation, molecular characterization and applications of phytoconstituents from medicinally important plants**  
Manisha K. Byakodi, Zabin K. Bagewadi\* and Uday M. Muddapur
- PPS-02 **Estimation of flavonoids, phenols and antioxidant capacity of *Spilanthes ghoshinis***  
Durga. K.V. and Sheela. D.
- PPS-03 **Resazurin Based Microtitre Assay And Comparison of DLA And EAC cell lines in *Amaranthus Viridis* L. (Kuppacheera).**  
Pinkie Cherian and D. Sheela
- PPS-04 **A comparison of in vitro pharmacological properties in *Syzygium Aqueum*, Alston**  
Maria Cheenickal and D Sheela
- PPS-05 **Development of phyto drug loaded nanoparticle incorporated hydrogel nanocomposite and their antimicrobial activity**  
Mridula Sreedharan

### POSTER PRESENTATIONS

*Next step towards scientific excellence...*

- PP-01 ***In vitro* multiplication and germplasm conservation of *Ruta chalepensis* and assessment of genetic stability using molecular markers**  
Mohammad Faisal, Abdulrahman A. Alatar and Ahmad A. Qahtan
- PP-02 **Genetic transformation and siRNA mediated aphid resistance in tomato plants**  
Mohammad Faisal Abdulrahman A. Alatar and Eslam M. Abdel-Salam
- PP-03 **Synthesis and evaluation of a bioink for three dimensional bioprinting of liver construct**  
Roopesh R Pai, Shiny Velayudhan, Kalliyana Krishnan V, Kumary T. V and Anil Kumar P.R.
- PP-04 **Efficacy of extracellular chromate reductase from *Bacillus* sp. for detoxification of hexavalent chromium**  
Jyoti Sankar Prusty, Bhagwat Prasad Rath and Hrudayanath Thatoi
- PP-05 **Remediation of wastewater and biomass production for biodiesel using a thermotolerant fast growing microalga *Chlorella sorokiniana*-I**  
Prachi Nawkarkar, Amit Kumar Singh, Malik Zainul Abdin and Shashi Kumar

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PP-06	<b>Stress related gene responses and behavioral changes in <i>Caenorhabditis elegans</i> exposed to organophosphorous pesticide quinalphos</b> Duraipandian Govindarajan, Chitral Chatterjee, Ganesan Shakambari, Perumal Varalakshmi and Balasubramaniam Ashok kumar
PP-07	<b>Ferulic acid esterase from lactic acid bacteria isolated from milk and milk products for producing ferulic acid</b> T. Muthurayar, M. Kayalvizhi, B. Ashokkumar P. Varalakshmi and N. Sivakumar
PP-08	<b>Combinations are more important than total number of disease resistance genes</b> Manoj Kumar H.B., Deepak C.A., Harini Kumar K.M. Rajanna M.P. and Ayeesha Munawery
PP-09	<b>Physico-chemical and biological studies of vermicompost prepared by admixing sodium polyacrylate from used diapers using epigeic earthworm <i>Eudrilus eugeniae</i></b> Ashita Stanley and Ani Kurian
PP-10	<b>Application of immunodiagnostic assays in detection of paramphistomosis in domestic ruminants</b> Syed Shabih Hassan
PP-11	<b>Application of date palm (<i>Phoenix dactylifera</i> L.) syrup and its influence in food industries to enrich food products</b> Afreen Asif
PP-12	<b><i>Aquaspirillum magetotactum</i>: the magnetic microbe</b> Gopinath S M, Pruthvish R, Rathan Kumar and Mohammed Ali Khan.
PP-13	<b>Bioplastics: plastics go green</b> Gopinath S. M, Ramya R, Vaibhavi Vivekananda and Keerthana Kamat
PP-14	<b>Collagen sponge: A novel support to cardiac stem cells</b> Gopinath S M, Pruthvish R, Ashwini and Bindu Pallaki
PP-15	<b>Enumeration, isolation and molecular characterisation of rhizosphere microflora associated with organically cultivated by intercropping of cauliflower (<i>Brassica oleracea</i>) and beans (<i>Phaseolus vulgaris</i>)</b> N. Devakumar, K.M. Harini Kumar and B. Latha
PP-16	<b>Bioluminescence: A pollution detector</b> Gopinath S M, Ramya R and Aniruddha Maram