

PROGRAMME AGENDA

Thursday 05th October, 2017

8:00 – 8:45 AM	2nd PAN IIT BIOTECH MEET-2017 Check-in and Registration Opens
8:55 – 9:00 AM	“Introductory of 2nd PAN IIT BIOTECH MEET -2017” Prof. Rama Shanker Verma, Organizing Secretary, Dept. of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
Synthetic Biology Session 1, Chairperson: Dr. D. Karunakaran, Professor and Head, Dept. of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36. Keynote Presentation: 1-5	
9:00 – 9:30 AM	“From Natural Antibodies to Synthetic Proteins”
9:30 – 9:35 AM Q&A	Dr. Sachdev Singh Sidhu, Professor, The Donnelly Centre, University of Toronto, Ontario, Canada, M5S 3E1
9:35 – 9:45 AM	“Control of Metabolic Pathway Fluxes by Synthetic Biology Approaches”
9:45 – 9:50 AM Q&A	Dr. Guhan Jayaraman, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
9:50 – 10:00 AM	“Startup India: Road Map for Biotechnology Education to Bio-manufacturing”
10:00 – 10:05 AM Q&A	Dr. Satyahari Dey, Professor, Department of Biotechnology and Managing Director, Science & Technology Entrepreneurs' Park (STEP), IIT Kharagpur, Kharagpur, India-721302.
10:05 – 10:15 AM	“Development of Novel Technologies Using Magnetic Nanoparticles for Research and Industrial based High
10:15 – 10:20 AM Q&A	Throughput Applications” Dr. Ramchand C. N., CEO, MagGenome technologies, Cochin and Saksin Life sciences Pvt. Ltd., Chennai-600113.
10:20 – 10:30 AM	“Prototypes of Devices for Non-invasive Therapy for Alzheimer’s Disease and Water Remediation”
10:30 – 10:35 AM Q&A	Dr. Vibin Ramakrishnan, Associate Professor, Department of Bioscience and Bioengineering, IIT Guwahati,

	Guwahati – 781039.
10:35 – 10:45 AM 10:45 –10:50 AM Q&A	“Development and Performance Analysis of a Novel Solid-state Fermentation Bioreactor for Phytase Production” Dr. Sanjay Ghosh, Professor, Department of Biotechnology, IIT Roorkee, Roorkee -247 667.
10:50 –11:00 AM	Tea break
Cardiovascular Diseases Session 2, Chairperson: Dr. P. N. Rangarajan, Professor, Department of Biochemistry, IISc., Bangalore-560012. Keynote Presentation: 6-10	
11:00 – 11:30 AM 11:30 – 11:35 AM Q&A	“Intramyocardial Injection of Bonemarrow Derived Stem Cells in Border Zone After Acute Myocardial Infarction in Severe LV Dysfunction” Dr. Nandkishore Kapadia, Head - Adult Cardiac Surgery & Director- Heart & Lung Transplant Service, Kokilaben Dhirubhai Ambani Hospital, Mumbai-400047.
11:35 – 11:45 AM 11:45 – 11:50 AM Q&A	“Functional Genetic Variations at the Chromogranin a Gene Locus Alter the Risk for Cardiovascular and Metabolic Diseases” Dr. Nitish Mahapatra, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
11:55 AM – 12:05 PM 12:05 – 12:10 PM Q&A	“Novel Genes Associated with Heart Failure in South Asians” Dr. Dhandapany Perundurai, Research Investigator, Institute for Stem Cell Biology and Regenerative Medicine (inStem), GKVK-Campus, Bellary Road, Bangalore 560065
12:10 – 12:20 PM 12:20 – 12:25 PM Q&A	“Trans Fat: A Silent Killer” Dr. Amal Kanti Bera, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
12:25 – 12:35 PM 12:35 – 12:40 PM Q&A	“Regeneration of Cardiac Tissue from Stem Cells ” Dr. Rama Shanker Verma, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
12:40 – 12:50 PM 12:50 – 12:55 PM Q&A	“Kaemferol Induced Protection of Pancreatic β-Cells by Autophagy in a Lipotoxic Environment” Dr. Partha Roy, Professor, Department of Biotechnology, IIT Roorkee, Roorkee-247667

12:55 – 1:50 PM		Lunch Buffet
SESSION-3		
CHAIRPERSON: Dr. Partha Roy, Professor, Department of Biotechnology, IIT Roorkee, Roorkee-247667		
Keynote Presentation: 10-15		
1:50 – 2:20 PM	Plenary Talk -3 To be announced	
2:20 – 2:25 PM Q&A	Dr. K. R. Balakrishnan, Director, Cardiac Sciences, Chief Cardiothoracic & Transplant Surgeon, Fortis Malar Hospital, Chennai-600020.	
2:25 – 2:35 PM	“FANCI Helicase Controls the Balance Between Short-and Long-tract Gene Conversions Between Sister Chromatids”	
2:35 – 2:40 PM Q&A	Dr. Ganesh N., Associate Professor, Department of Biochemistry, IISc., Bangalore - 560012	
2:40 – 2:50 PM	“Understanding the Parkinsonian Brain through Computational Modeling”	
2:50 – 2:55 PM Q&A	Dr. V. Srinivasa Chakravarthy, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.	
2:55 – 3:05 PM	“Looking Deeper into Biological Tissues using Optical Tool for Disease Diagnosis”	
3:05 – 3:10 PM Q&A	Dr. Sharad Gupta, Assistant Professor, Center for Bioscience and Biomedical Engineering, IIT Indore, Indore	
3:10 – 3:20 PM	“Two site Binding Model of C5a Receptor (C5aR) Exemplified via Native and Engineered hC5a”	
3:20 – 3:25 PM Q&A	Dr. Soumendra Rana, Assistant Professor, School of Basic Sciences, IIT Bhubaneswar, Jatni – 752 050.	
3:25 – 3:35 PM	“Inflammation-responsive Drug Delivery: An Emerging Concept for the Treatment of Inflammatory Diseases”	
3:35 – 3:40 PM Q&A	Dr. Praveen Kumar Vemula, Research Investigator, inStem, Bangalore- 560065.	
3:40 – 3:55 PM	Tea Break	
SESSION-4		
CHAIRPERSON: Dr. D. Karunakaran, Professor and Head, Dept. of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.		
Keynote Presentation: 16-19		
3:55 – 4:05 PM	“Cell Biology of Entamoeba Encystation”	
4:05 – 4:10 PM Q&A	Dr. Sudip K Ghosh, Professor, Department of Biotechnology, IIT Kharagpur, Kharagpur-721301.	
4:10 – 4:20 PM	“Multi-scale Modeling of Biomolecular Recognition of Ligand by Protein”	
4:20 – 4:25 PM Q&A	Dr. Parimal Kar, Ramalingaswami Fellow, Center for Bioscience and Biomedical Engineering, IIT Indore, Indore.	

4:25 – 4:30 PM	“SMC Proteins: Determinants of Genome Stability”
4:30 – 4:35 PM Q&A	Dr. Shika Laloraya, Associate Professor, Department of Biochemistry, IISc., Bangalore -560012.
4:35 – 4:45 PM	“Construction of Single Chain Variable Fragment (scFv)”
4:45 – 4:50 PM Q&A	Dr. Anjali Anoop Karande, Professor, Department of Biochemistry, IISc., Bangalore -560012.
4:50 – 5:50 PM	Academia –Academia, Academia-Industry interaction (panel discussion)
Inauguration of 2nd PAN IIT BIOTECH MEET -2017	
7:00 – 7:10 PM	Welcome Address Prof. Rama Shanker Verma, Organizing Secretary Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
7:10 – 7:20 PM	Lightening of Lamp by Chief Guest, Guest of Honor, The Mehta Family Foundation and Organizers
7:20 – 7:30 PM	Presidential address Prof. Bhaskar Ramamurthi, Director, IIT Madras, Chennai-36.
7:30 – 7:40 PM	Inaugural Address Shri. Manohar Parrikar, Honorable Chief Minister, Government of Goa, Goa
7:40 – 7:50 PM	Guest of Honor Dr. K. VijayRaghavan, Secretary, Department of Biotechnology, Ministry of Science & Technology, Government of India, New Delhi.
7:50 – 8:00 PM	Felicitation address Shri. Rahul Mehta, Founder, The Mehta Family Foundation, USA.
8:00 – 8:10 PM	Address of Gathering Prof. R. Nagarajan, Dean, I&AR, IITM Alumni, IIT Madras, Chennai-36
8:10 – 8:20 PM	Vote of Thanks Prof. D. Karunagaran, HOD Dept. of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
8:20 – 10:00 PM	Gala Dinner

Friday, 06th October, 2017

BIOTECHNOLOGY

SESSION-5

CHAIRPERSON: Dr. Anjali Anoop Karande, Professor, Department of Biochemistry, IISc., Bangalore -560012.

Keynote presentation 20-23

9:00 – 9:30 AM	“Comprehensive and Integrative Genomic Characterization of Breast Cancer in an Indian Population”
9:30 – 9:35 AM Q&A	Dr. S. Mahalingam, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
9:35 – 9:45 AM	“Cartilage Repair Product”
9:45 – 9:50 AM Q&A	Dr. Pradeep Srivastava, Professor, School of Biomedical Engineering, IIT BHU, Varanasi-221005
9:50 – 10:00 AM	“Recent Developments on Molecular Mechanism of Protein Transport in a Living Cell”
10:00 – 10:05 AM Q&A	Dr. Gursharn Singh Randhawa, Professor, Department of Biotechnology, IIT Roorkee, Roorkee-247667,
10:05 – 10:15 AM	“Selective Activation of Proteasome in the Premeiotic Germ Cells is Essential for Homologous Chromosome
10:15 – 10:20 AM Q&A	Pairing in <i>C. elegans</i>” Dr. K. Subramaniam, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
10:20 – 10:30 AM	“Development of a Nanoparticulate Drug Delivery System for the Treatment of Diabetic Retinopathy”
10:30 – 10:35 AM Q&A	Dr. Dharendra S. Katti, Professor, Department of Biological Sciences and Bioengineering, IIT-Kanpur, Kanpur-208016
10:35 – 10:45 AM	Tea break

SESSION-6

CHAIRPERSON: Dr. Dharendra S. Katti, Professor, Department of Biological Sciences and Bioengineering, IIT-Kanpur, Kanpur-208016

Keynote Presentation: 24-29

10:45 – 10:55 AM	“β2 Regulatory Subunit of Cav Channels Required for T Cell Development and Homeostasis”
-------------------------	---

10:55 – 11:00 AM Q&A	Dr. Ashish Kumar Singh, Assistant Professor, School of Biochemical Engineering, IIT BHU, Varanasi-221005.
11:00 – 11:10 AM	“ rRNA Binding: A Role Beyond Chromatin Remodeling”
11:10 – 11:15 AM Q&A	Dr. Saravanan Matheshwaran, Assistant Professor, Department of Biological Sciences and Engineering, IIT Kanpur, Kanpur-208016.
11:15 – 11:25 AM	“Applicability of Two-dimensional Surface Model in Bacterial Biosorption System”
11:25 – 11:30 AM Q&A	Dr. Vishal Mishra, Assistant Professor, School of Biochemical Engineering, IIT (BHU), Varanasi-221005.
11:30 – 11:40 AM	“ Bovine sperm sexing and the biotechnological challenges ahead”
11:40 – 11:45 AM Q&A	Dr. Debasis nayak, Assistant Professor, Center for Bioscience and Biomedical engineering, IIT Indore, Indore
11:45 – 11:55 AM	“Optofluidic Platforms for Cell Interrogation and Monitoring Cell Colony Growth”
11:55 – 12:00 AM Q&A	Dr. Anil Prabhakar, Professor, Department of Electrical Engineering, IIT Madras, Chennai-36.
12:00 – 12:10 PM	“A Light–inspired Journey Through the Contemporary Challenges of Energy & Environment”
12:10 – 12:15 PM Q&A	Dr. Ramakrishna Sen, Professor, Department of f Biotechnology and PK Sinha Center for BioEnergy, IIT Kharagpur, West Bengal-721302,
12:15 – 1:15 PM	Lunch
SESSION-7	
CHAIRPERSON: Dr. S. Mahalingam, Professor, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.	
Keynote presentation 30- 37	
1:15 – 1:45 PM	“Parsing the Contribution of Fibroblast Heterogeneity to Tissue Fibrosis”
1:45 – 1:50 PM Q&A	Dr. Colin Jamora, Theme Coordinator & Associate Professor, inStem, Bangalore-560065.
1:50 – 2:00 PM	“Translational Research in Novel Drug Development”
2:00 – 2:05 PM Q&A	Dr. Sreesha P. Srinivasa, Associate Vice President, Biocon Research Ltd. Bangalore- 560099
2:05 – 2:15 PM	“Cellular Totipotency and Bioaccumulation Capabilities of Plant Cells using Plant Tissue Culture Techniques”
2:15 – 2:20 PM Q&A	Dr. Rakhi Chaturvedi, Professor, Department of Biosciences and Bioengineering, IIT Guwahati, Guwahati – 781039.
2:20 – 2:30 PM	“A Novel Cell Based Assay to Report and Induce the Second Messenger Cyclic AMP in Mammalian Cells Using Bacterial Protein CRP”
2:30 – 2:35 PM Q&A	Dr. Latha Ashok, DST-Women Scientist, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.

2:35 – 2:45 PM 2:45 – 2:50 PM Q&A	“Multifunctional Nanoparticle: Implication of siRNA Adsorbed Dual Drug Loaded Cationic Nanoparticles for Cancer Therapy” Dr. Ranjitha, NPDF , Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36
2:50 – 3:00 PM 3:00 – 3:05 PM Q&A	“Development of Microfluidic Devices for Blood-plasma Separation” Dr. Ashis Kumar Sen, Associate Professor , Department of Mechanical Engineering, IIT Madras, Chennai-36.
3:05 – 3:20 PM	Tea break
3:20 – 3:30 PM 3:30 – 3:35 PM Q&A	Keynote presentation 35 Dr. Joyce Nirmala, Postdoctoral Fellow , Department of Chemical Engineering, IIT Madras, Chennai-36.
3:35 – 3:45 PM 3:45 – 3:50 PM Q&A	Keynote presentation 36 Dr. Nalini venkatesan, Postdoctoral Fellow , Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
3:50 – 4:00 PM 4:00 – 4:05 PM Q&A	Keynote presentation 37 Prof. V. Kesavan, Professor , Department of Biotechnology, Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras, Chennai-36.
4:05 – 7:00 PM	Excursion
8:00 – 10:00 PM	Dinner

Saturday, 07th October, 2017

Session –8

Chairperson: Dr. Sudip K Ghosh, Professor, Department of Biotechnology, IIT Kharagpur, Kharagpur-721301.

Keynote Presentation 38–43

9:00 – 9:30 AM 9:30 – 9:35 AM Q&A	“New insights into the regulation of carbon metabolism in the methylotrophic yeast, <i>Pichia pastoris</i>”
--------------------------------------	--

	Dr. P. N. Rangarajan, Professor , Department of Biochemistry, IISc., Bangalore-560012.
9:35 – 9:45 AM	“Process Development for an Early Stage Novel Biologic”
9:45 – 9:50 AM Q&A	Dr. Dhananjey Patankar, Vice President , Syngene International Limited, Bangalore-5600099.
9:50 – 10:00 AM	Let’s See the Elephant in the Room!
10:00 – 10:05 AM Q&A	Dr. Ashok Kumar, President (R&D) , IPCA Laboratory Ltd., Mumbai-400067.
10:05 – 10:15 AM	Keynote presentation 40
10:15 – 10:20 AM Q&A	Dr. Dakshesh Mehta, CEO , Wockhardt Ltd., Mumbai-400051.
10:20 – 10:30 AM	Keynote presentation 41
10:30 – 10:35 AM Q&A	Dr. Thennati Rajamannar, Executive Vice President , Sun Pharmaceutical Ltd., Mumbai-400063.
10:35 – 10:45 AM	Keynote presentation 42
10:45 – 10:50 AM Q&A	Dr. Gopalan, CSO & Executive Director , Orchid Chemicals and Pharmaceuticals Ltd., Chennai-600034.
10:50 – 11:00 AM	Presentation 42
11:00 – 11:05 AM Q&A	Prof. V. Nagaraja, President , Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore. Professor , Department of Microbiology and Cell Biology, IISc., Bangalore-560012
10:05 – 11:15 AM	Tea Break
11:15 AM – 12:30 PM	Academia –Academia, Academia-Industry interaction (Panel Discussion) Preside by: Prof. Rama Shanker Verma- Organizing Secretary Chairperson: Dr. Bhaskar Ramamurthi, Director, IIT Madras and Shri. Rahul Mehta, Founder, Mehta Research Foundation, USA Participants: 1. Dr. Dhananjey Patankar, Vice President, Syngene International Limited, Bangalore. 2. Dr. Sreeshap P Srinivasa, Assistant Vice President, Biocon Ltd, Bangalore. 3. Dr. Ashok Kumar, President (R&D), IPCA Laboratory Ltd., Mumbai 4. Dr. Thennati Rajamannar, Executive Vice President, Sun Pharmaceutical Ltd., Mumbai 5. Dr. Dr.Gopalan, CSO & Executive Director, Orchid Chemicals and Pharmaceuticals Ltd., Chennai
12:30 – 1:15 PM	Lunch
1:15 – 2:30 PM	Closing ceremony
1:15 – 1:25 PM	Prof. Rama Shanker Verma, Organizing Secretary

1:25 –1:35 PM	will welcome the gatherings Prof. Bhaskar Ramamurthi, Director, IIT Madras, Tamil Nadu will presides over the function
1:35 –1:45 PM	Shri. Senapathy “Kris” Gopalakrishnan, Co-founder (Infosys), Board of Governor, IIT Madras will deliver the Chief Guest address
1:45 – 1:55 PM	Prof. V. Nagaraja, President, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, will accept the Guest of Honor.
1:55 – 2:10 PM	Concluding remarks
2:10 – 2:30 PM	Prof. D. Karunagaran, HOD, Department of Biotechnology, IIT Madras will deliver “Vote of Thanks”

