

**International Conference On:**  
**ADVANCES IN MATERIALS SCIENCE**  
**& APPLIED BIOLOGY (AMSAB)**

8<sup>th</sup> to 10<sup>th</sup> January 2019

**DAY 1**



# Registration





# Registration





# Registration





## Plenary Speaker: **Prof. Man Mohan Sharma**

- The Chief Guest of the conference, Padma Vibhushan Professor Man Mohan Sharma opened the session with his eloquent speech on the need of Blue Skies Research in the Indian society.
- Awarded Padma Bhushan & Padma Vibhushan by the President of India.
- Former Director & Professor of Institute of Chemical Technology.
- Awarded S.S. Bhatnagar Prize in Engineering Sciences & Vishwakarma medal of the Indian National Science Academy.
- Awarded an honorary Doctorate of Science degree from Indian Institute of Technology, Delhi.



# Plenary Speaker: Prof. Man Mohan Sharma

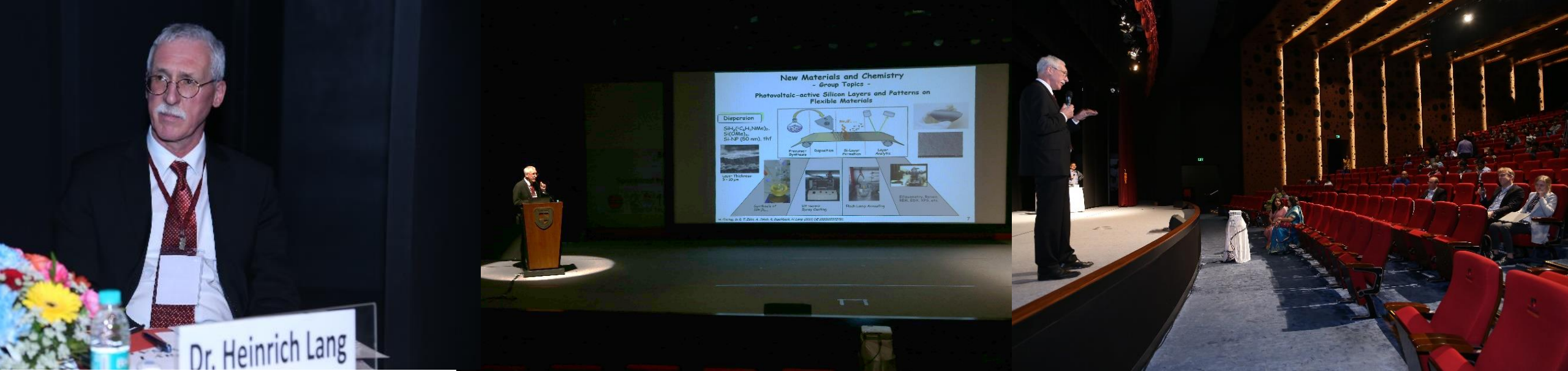


# Key Note Speaker:

## Prof Dr. Heinrich Lang

- Title From: Small Tailor-made Molecules To: New Materials
- Dr. Heinrich Lang is the chair of the Institute of Inorganic chemistry at Technische Universität Chemnitz. (Germany)
- He served as the Vice Vector for research and young scientist TUC from 2012 to 2016.
- His current research is in Inorganic chemistry & Organometallic chemistry like Metal / Metal Oxide nanoparticles, CVD, ALD, CCVD, Spin and spray coating process for micro and Nano electronic etc.





# Key Note Speaker: Prof Dr. Heinrich Lang







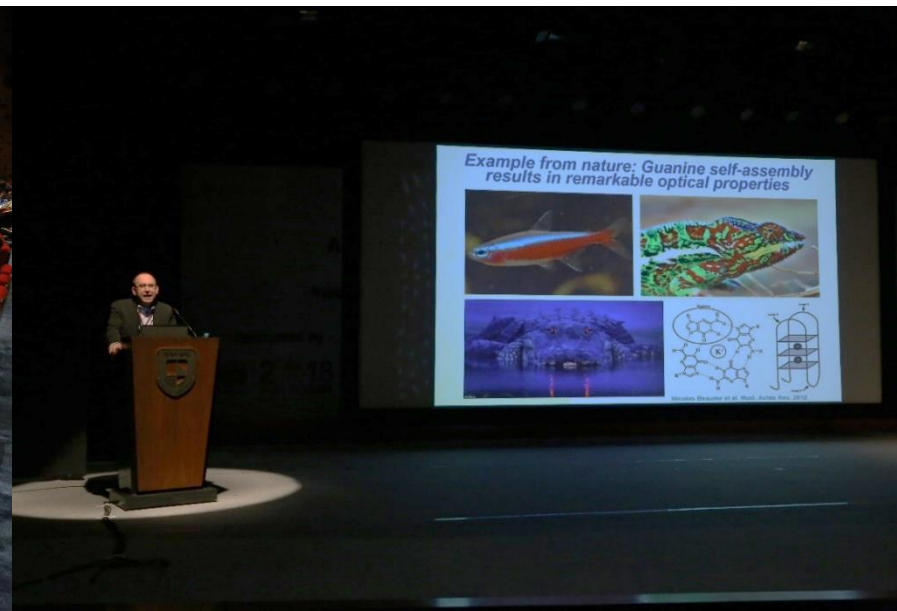
# Key Note Speaker:

## Prof Dr. Ehud Gazit

- Title: Peptide and Metabolite Materials: A Reductionist Approach
- Dr. Ehud Gazit is a Professor and Endowed Chair at the Department of Molecular Microbiology and Biotechnology, Faculty of Life Sciences and the Department of Material Science and Engineering, Faculty of Engineering (Tel Avi University, Israel)
- Works on biochemical, biophysical and molecular biology methodologies to study protein unfolding and misfolding.
- Research is directed toward the elucidation of the mechanism of action of chemical chaperons and their effect on folding, aggregation and amyloid formation.



# Key Note Speaker: Prof Dr. Ehud Gazit





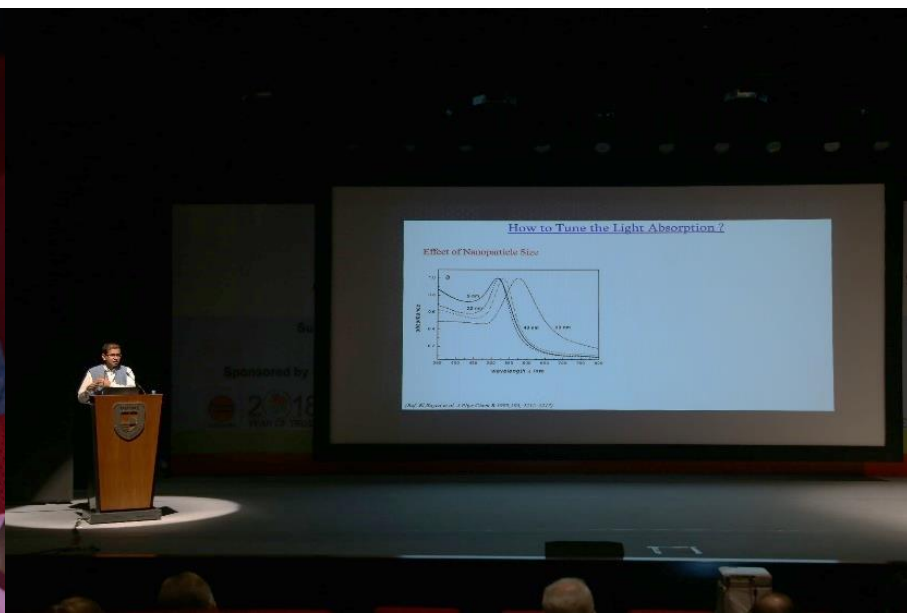
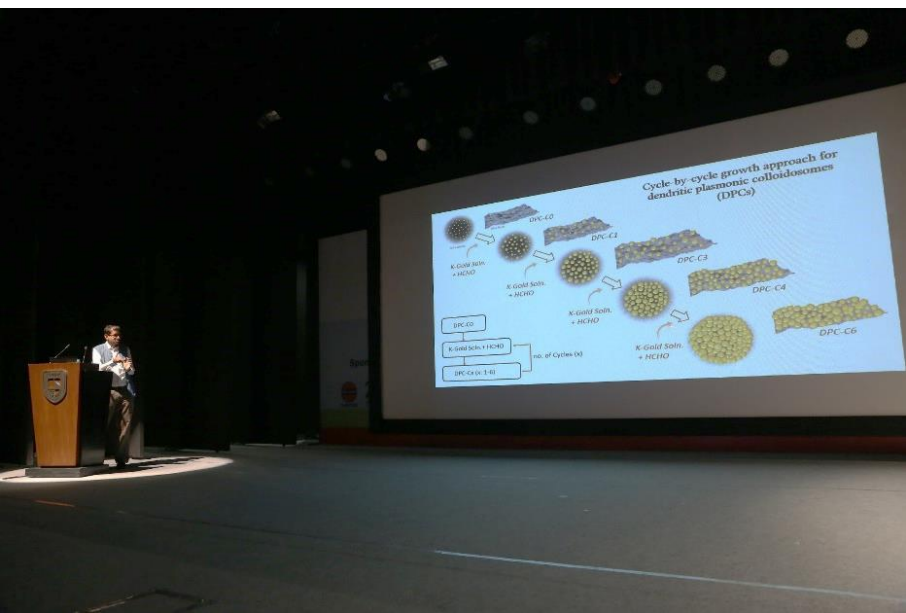
# Invited Speaker:

## Dr. Vivek Polshettiwar

- Title: Advanced Nanomaterials for Harvesting Solar Energy, Catalysis and CO Capture
- Dr Vivek Polshettiwar is an Associate Professor 'G' at the Department of Chemical Sciences at Tata Institute of Fundamental Research, Mumbai. Dr. Polshettiwar's research interests are in the area of advanced nano-materials, nanocatalysis and green chemistry.
- Next generation catalysts can be developed by shape and morphological control of nano-materials which will allow preferential exposure of active site.
- His nano-catalysis group is working in the area of nano-materials (metals, metal oxides, silica, titania, MOFs) synthesis with controlled shape and morphology and their application as nano-catalysts and environmental applications (e.g. CO capture, water purification etc.) that allow for more sustainable and green production processes.



# Invited Speaker: **Dr. Vivek Polshettiwar**

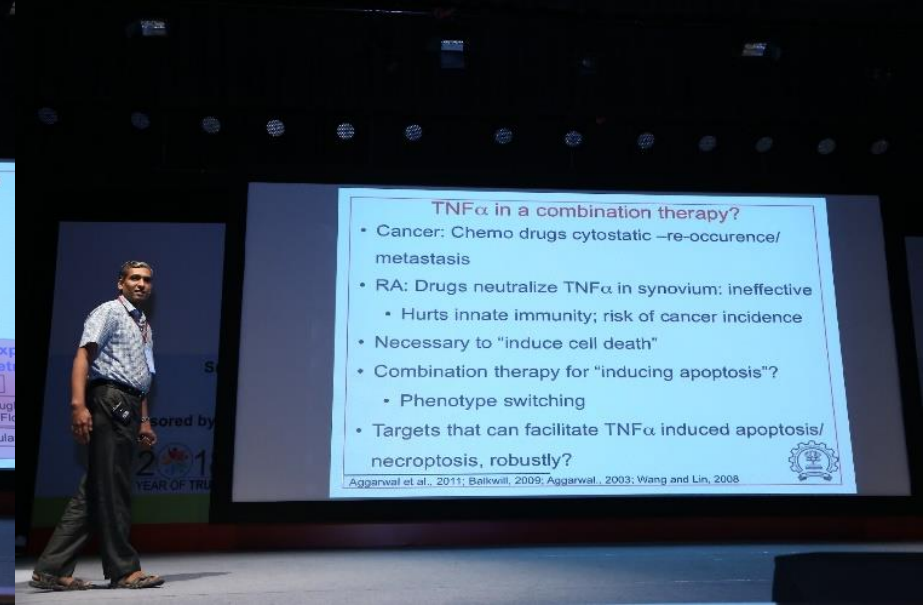
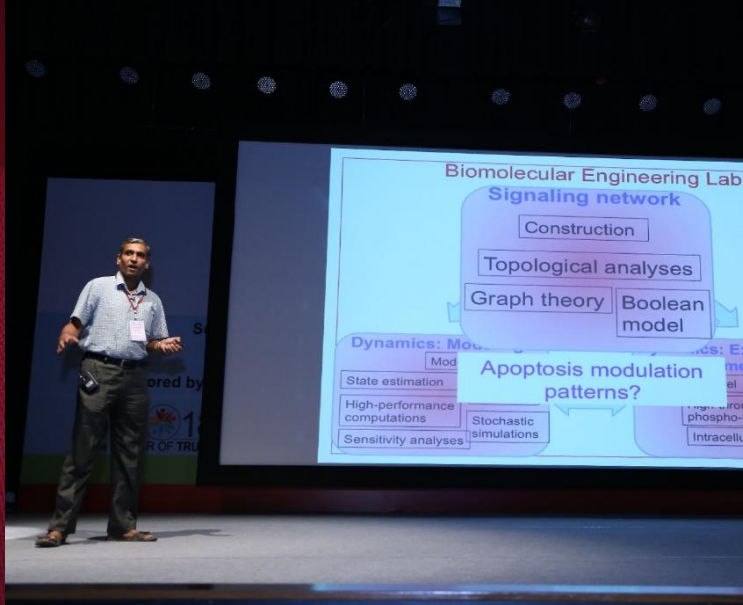




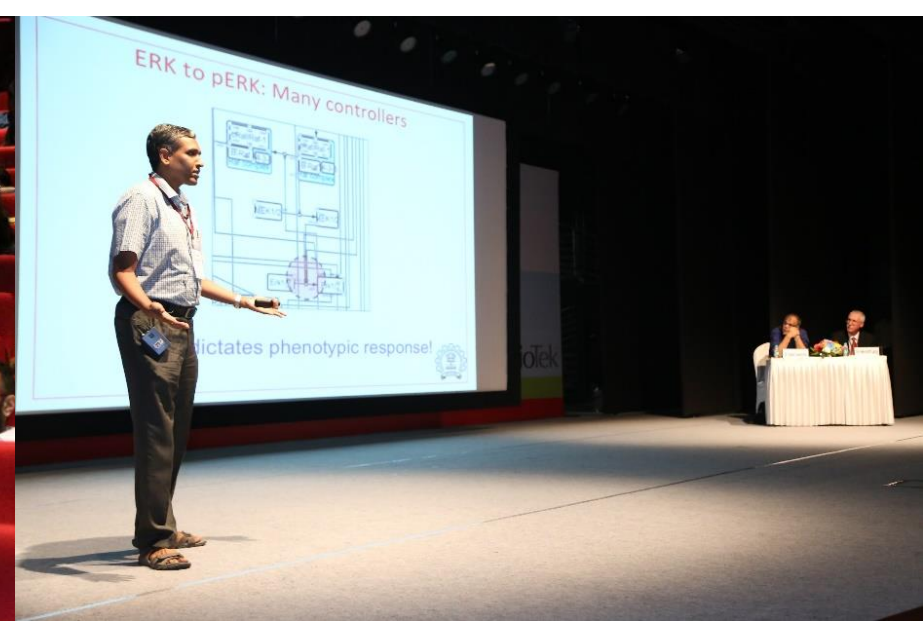
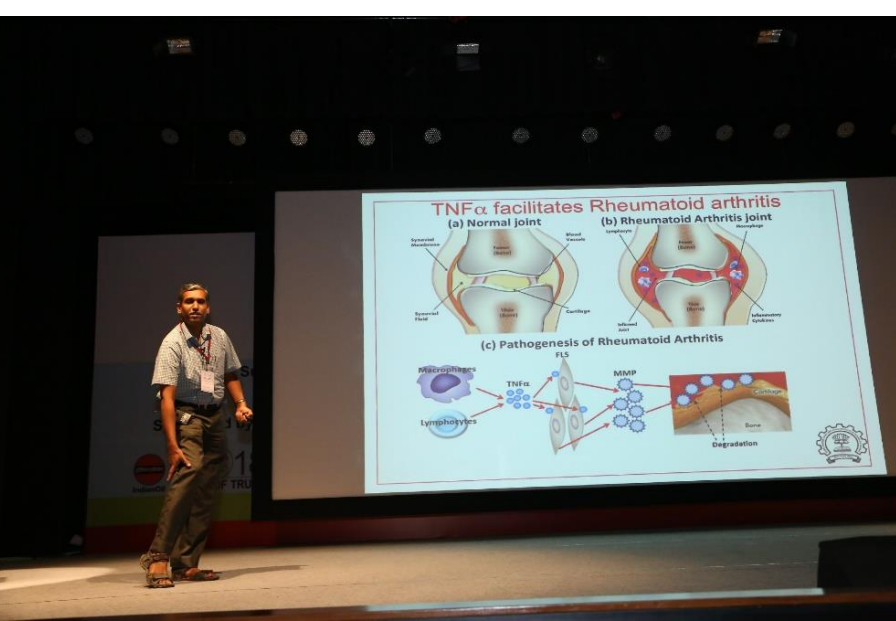
## Invited Speaker:

# Prof Dr. Ganesh Vishwanathan

- Title: Topological and functional analysis of a comprehensive TNF $\alpha$  signaling network
- Dr Ganesh A Viswanathan is Principal Investigator of the Biomolecule Engineering lab at Department of Chemical Engineering, Indian Institute of technology (IITB) Bombay.
- His group 's target is to carry out systems biology mathematical modelling to identify the key molecular signatures of the TNF $\alpha$  signaling network that govern the phenotypic response of a cell exposed to TNF $\alpha$ .
- Dr Vishwanathan is presently interested in constructing a well-annotated, comprehensive mammalian TNF $\alpha$  signaling network and to identify the sub-structures and modules that would govern the overall functioning of the network.



# Invited Speaker: Prof Dr. Ganesh Vishwanathan





## Invited Speaker:

# Prof Dr. Jayakumar Rangasamy

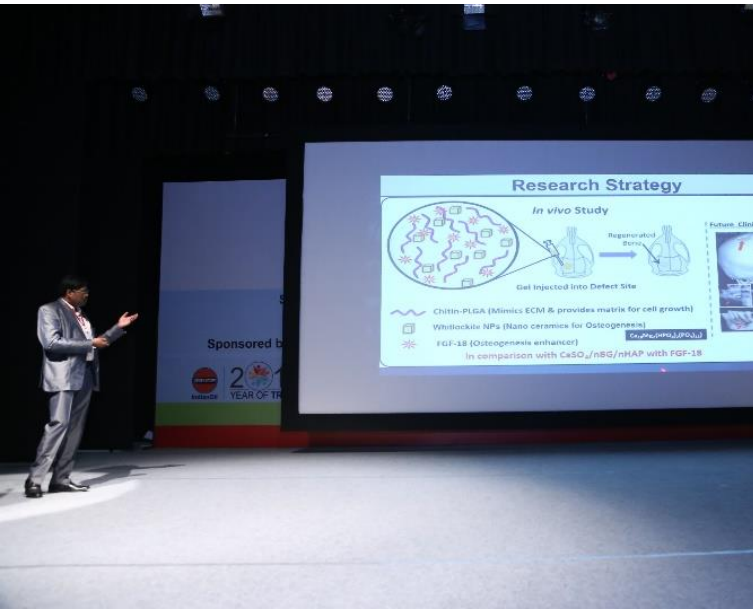
(Amrita Institute of Medical Science & Research Centre, Kochi, India)

- Title: Multiple Applications of Injectable Hydrogels
- Dr. R. Jayakumar is a Professor at the Centre for Nanosciences and Molecular Medicine (ACNSMM), Amrita Vishwa Vidyapeetham, specializing in the area of Biomaterials for Healthcare Application.
- The Jayakumar's group is developing approaches to control cell differentiation through surface modification, they are also designing scaffolds for tendon and ligament regeneration using electrospun fibre scaffold.
- His research is focussed on understanding and designing biomaterials using biomimetic approach for tissue regeneration well as development of injectable hydrogels and scaffolds for wound healing.



# Invited Speaker: Prof Dr. Jayakumar Rangasamy

(Amrita Institute of Medical Science & Research Centre, Kochi, India)







# Invited Speaker:

## Prof Dr. Vandana Patravale

(Institute of Chemical Technology, Mumbai, India)

- Title: Functionalized Nanosystems as Trojan horses for Superior Therapeutics
- Dr. Vandana. B. Patravale Expertise in area of novel nanocarriers for cosmeceuticals and other pertinent areas of national relevance with major emphasis on malaria, cancer and neurodegenerative disorders.
- Specific research interest include Nanotechnology based drug and gene delivery systems (lipid, polymeric, micellar nano carriers, and self-micro/nano emulsifying systems) for bioavailability enhancement and/or targeting, Vaccines and adjuvants.
- Her current research activity includes colloidal drug delivery systems including microemulsions and solid lipid/polymeric nanoparticles for solubilization, increase in bioavailability and/or targeting. Medical device development viz. Coronary stents, intrauterine devices etc.



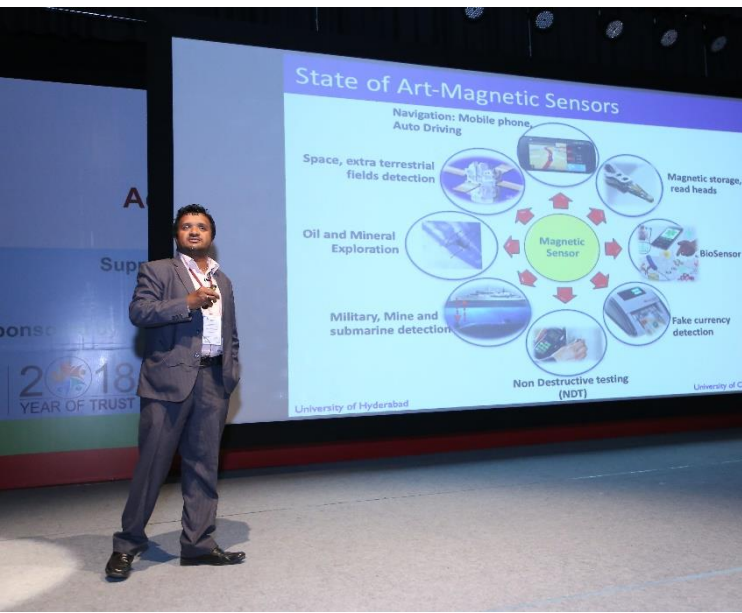
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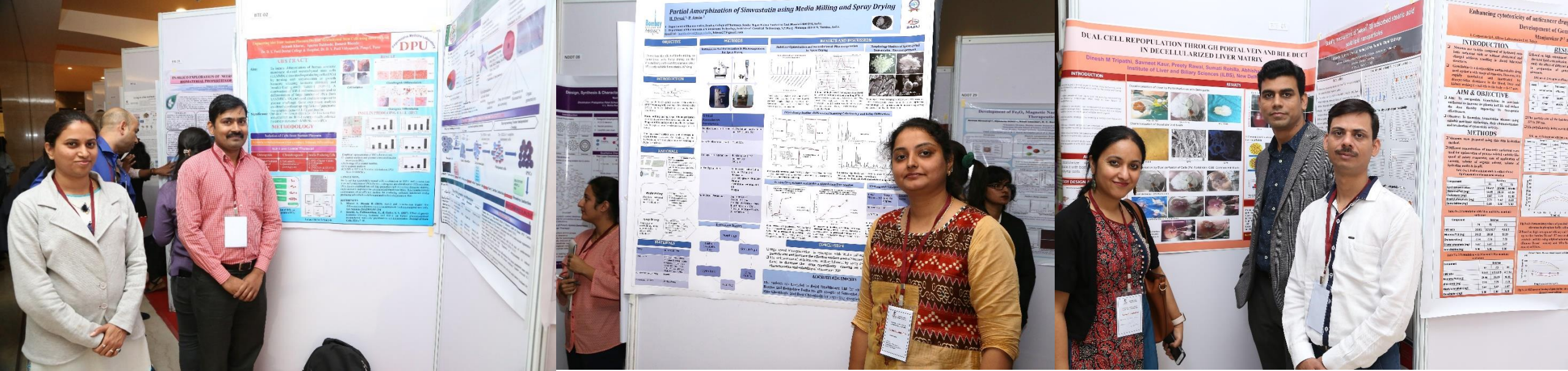
(Institute of Chemical Technology, Mumbai, India)



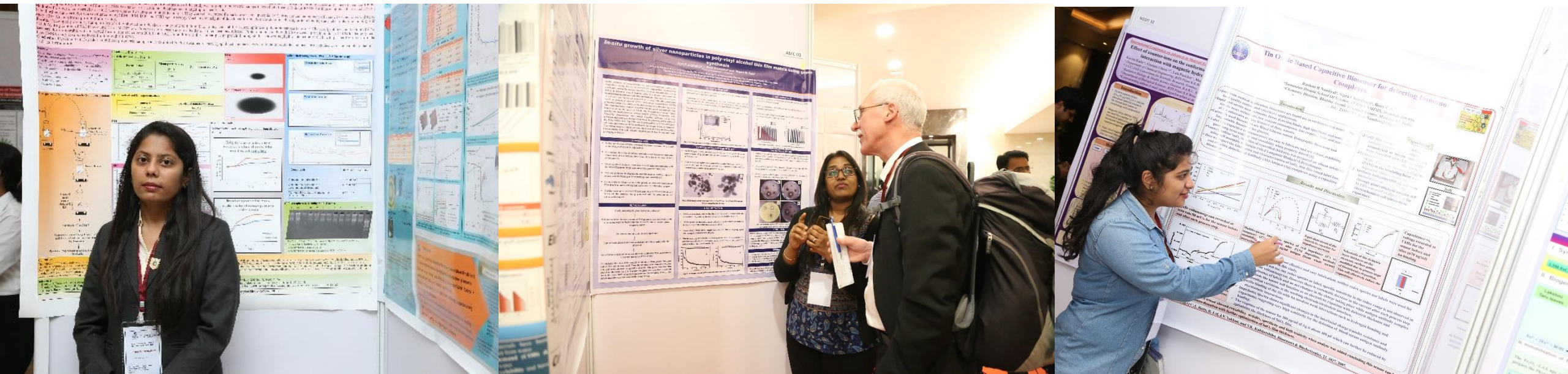


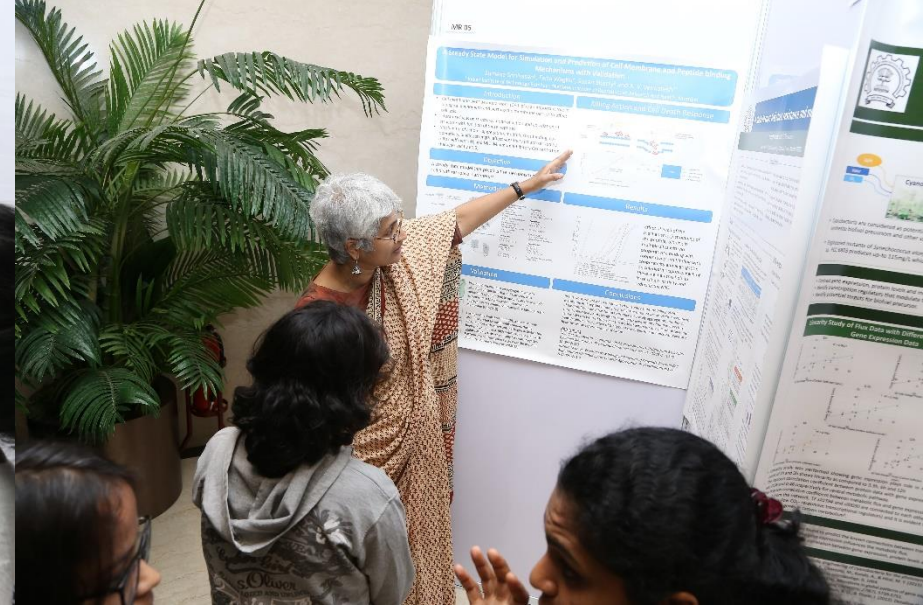
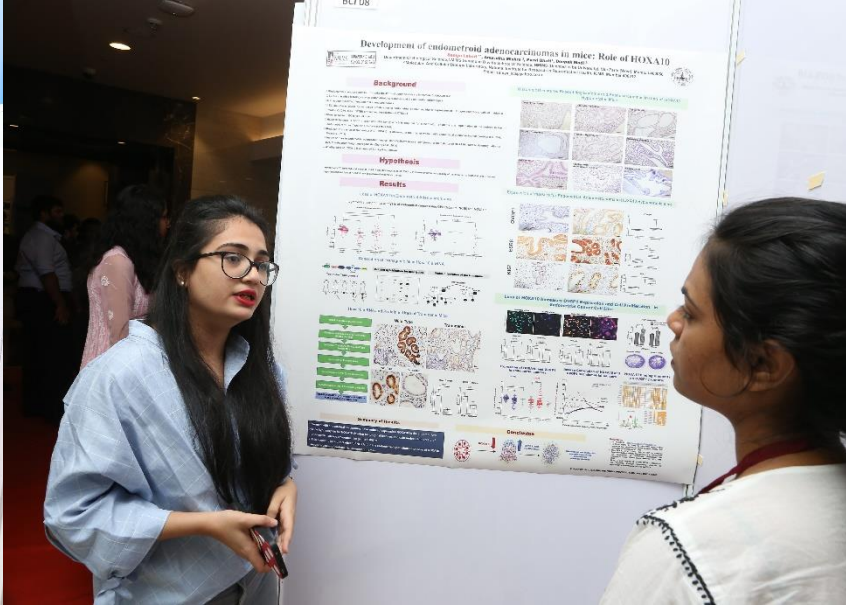
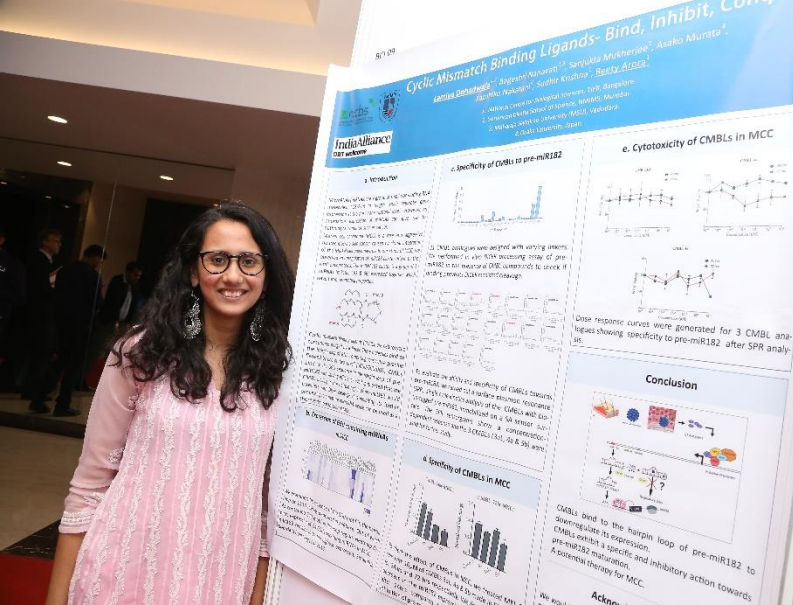
# Oral Talk: **Christina Nutschel, Sahadev Shankarappa, Pratap Kollu, Rohan Shah, Pradip Kumar**



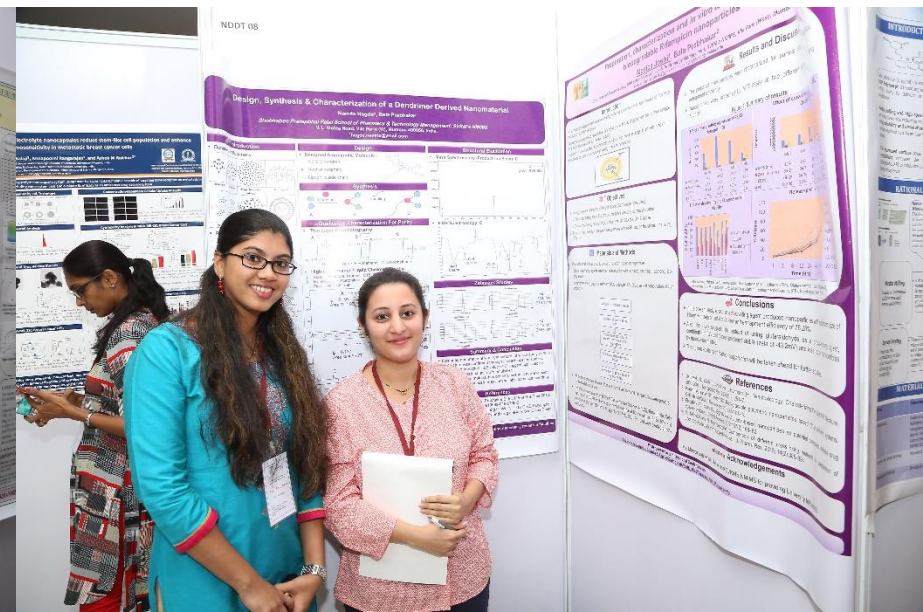
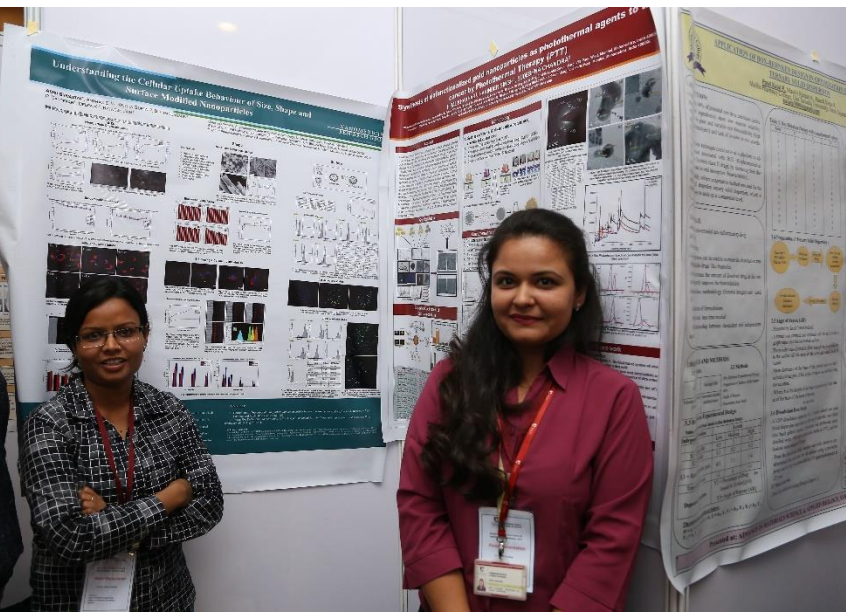
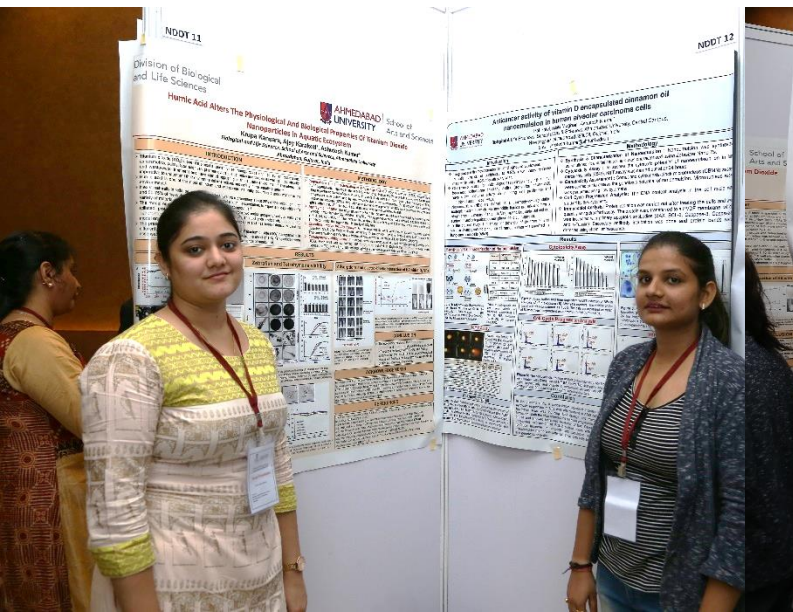


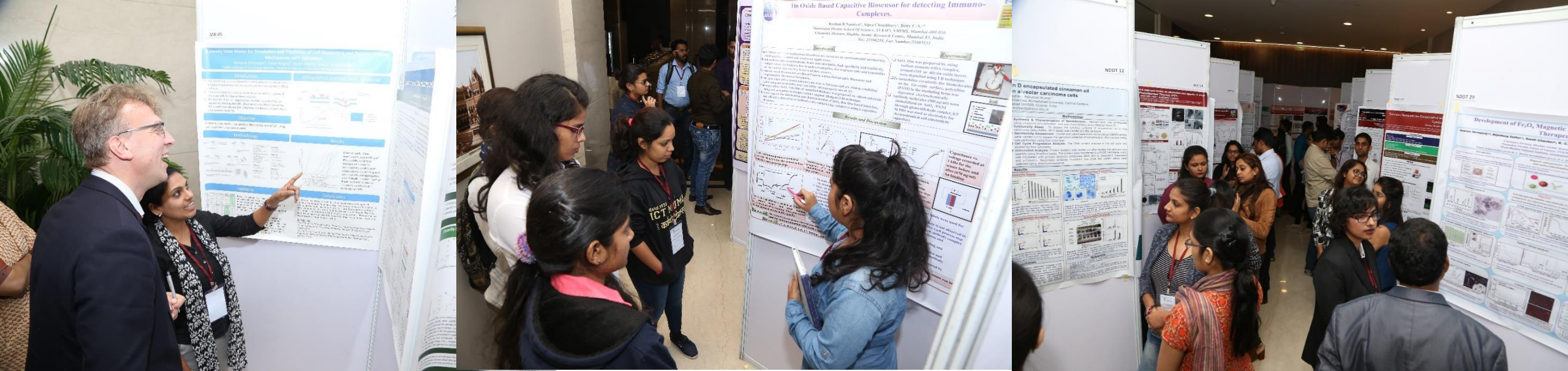
# Poster Session





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# Cultural Event by students of SDSOS





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