

National Conference

BIOENGINEERING -2020

December 10-11, 2020, Online Mode: MS Teams, NIT Rourkela

Day 1, 10 th December 2020		Titles
Inaugural Session	09.30 AM – 10.00 AM	
Session 1		
Prof. Deepthy Menon (Professor, Amrita Vishwa Vidyapeetham Kochi, Kerala)	10:00 AM -11:00 AM	Innovative nano surface engineering of biomaterials for improved device performance
Prof. Praveen Kumar Vemula Associate Professor Institute for Stem Cell Biology and Regenerative Medicine (inStem) UAS-GKVK Campus,	11:00 AM – 12:00 PM	Designing Prophylactic and Therapeutic Technologies for Solving Unmet Clinical Needs
Presentation of Participants	12:00PM -1:00PM	
Lunch Break 1:00PM – 2:00 PM		
Session 2		
Dr. Eswaramoorthy K. V Assistant Professor, Indian Institute of Information Technology, Design and Manufacturing, Kurnool Kurnool- Andhra Pradesh	2:00 PM – 2:45 PM	Non-Invasive sensing of body fluid
Dr. Suhail Rizvi Mohd Assistant Professor, Biomedical Engineering Department Indian Institute of Technology Hyderabad, Telengana	2:45 PM – 3:30PM	Mathematical Modeling of Mechanics of Fibrous Scaffolds for Tissue Engineering Applications
Dr. Mohit Kumar Jolly Assistant. Professor, Biosystem science and engineering Department Indian Institute of Science Bangalore, Karnataka	3:30 PM – 4:15 PM	Computational Systems Biology of Cancer: How can mathematical models help us understand cancer better
Presentation of Participants	4:15-5:15 PM	
Poster Presentation	5:15 PM-6:00 PM	
Day 2, 11 th December 2020		
Session 3		
Dr. Binulal Nelson Sathy Assistant Professor, Amrita Centre for Nanosciences & Molecular Medicine, Amrita Vishwa Vidyapeetham Kochi, Kerala	9:00 AM – 9:45 AM	Human tissues and organoids in a dish: potentials and challenges in recapitulating the in vivo environment ex vivo

Dr. Akshay Srivastava Associate Professor, Department of Pharmaceuticals National Institute of Pharmaceutical Education and Research, Ahmedabad	9:45 AM -10:30 AM	Bioengineered Cell Instructive Collagen Hydrogel Patch for Intervertebral Disc Repair and Regeneration
Dr. Sakthi Swarrup J Assistant Professor, Centre for Nanotechnology Research (CNR) VIT ,Vellore, Tamil Nadu	10:30 AM – 11:15 AM	Ionic Polymer Metal Composites as actuators and sensors for bio medical applications
Dr. Alok Jain Assistant Professor, Bioengineering Department Birla Institute of Technology MESRA, Jharkand	11:15 AM – 12: PM	A combined atomistic and coarse grained simulation study of peptide based nanostructures: From atomistic details to a mechanistic interpretation
Presentation of Participants	12:00PM -1:00PM	
Lunch Break 1:00PM – 2:00 PM		
Session 4		
Dr. Shamik Chowdhury Assistant Professor, Environmental Science and Engineering Department Indian Institute of Technology Kharagpur, West Bengal	2:00 PM – 2:45 PM	Plant-derived nanomaterials for sustainable urbanization
Dr Rabi Narayan Sahu, MCh, DNB (Neurosurgery) Professor & Head Department of Neurosurgery, All India Institute of Medical Sciences, Bhubaneswar, Odisha	2:45 PM – 3:30PM	Neural Bio-Prosthesis in Neurosurgery
Dr. Indranil Banerjee Associate Professor Department of Bioscience and Bio engineering Indian Institute of Technology Jodhpur	3:30 PM – 4:15 PM	Proangiogenic Nano- Biomaterials for Bone Tissue Engineering
Mr. Atantr Dasgupta (Samsung HME)	4:15 PM -5:00 PM	
Dr. Sreerup Banerjee Associate Professor Department of Mechanical Engineering Haldia institute of technology, West Bengal	5:00 PM – 5:45 PM	Understanding gastrointestinal biomechanics: Role of medical image processing
Valedictory and Student Award Ceremony	5:45 PM – 6:00 PM	