



NANOBIOTECK – 2019

4th Annual Conference of ISNM

21st – 23rd November 2019

Aerocity, New Delhi

21st NOVEMBER 2019

01:50 PM – 01:55 PM	WELCOME REMARKS <i>Prof. A. K. Dinda, General Secretary, ISNM</i>
01:55 PM – 02:00 PM	THEME OF NANOBIOTECK - 2019 <i>Prof. K N Ganesh, President, ISNM</i>

02:00 PM – 05:00 PM	SESSION I – BIOLOGICAL & BIOINSPIRED NANOMATERIALS Chairperson: <i>Prof. A. K. Dinda, AIIMS - Delhi</i> Co-Chair: <i>Dr. Reji Varghese, IISER - Trivandrum</i>
02:00 PM – 02:45 PM	Redefining Identity of Disease, Tissues and Cells – a Biomaterials Paradigm <i>Prof. Abhay Pandit, National University of Ireland, Ireland</i>
02:45 PM – 03:15 PM	Boosting Intracellular Delivery of mRNA therapeutics <i>Dr. Gaurav Sahay, OSHU, USA</i>
03:15 PM – 03:45 PM	Nucleic Acid-derived Nanoparticles for Transdermal Drug delivery and Biosensing <i>Dr. Xu Chenjie, The Nanyang Technological University, Singapore</i>
03:45 PM – 04:00 PM	Harnessing inflammatory arthritis by pH-responsive glycol-chitosan nanoparticles: in vitro and in vivo activities <i>Dr. Anita Kamra Verma, KMC, Delhi</i>
04:00 PM – 04:15 PM	Helical Nano-swimmers for Biotechnology <i>Dr. Ambarish Ghosh, IISc – Bangalore</i>
04:15 PM – 04:30 PM	Nanoparticle-mediated Targeting of Tumour Proliferation via Epigenetic Modifications <i>Dr. Avinash Bajaj, RCB, Faridabad</i>



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05:00 PM – 07:00 PM	Tea-Break + POSTER SESSION <u>Judges:</u> <i>Dr. Neetu Singh, IIT – Delhi</i> <i>Dr. Indrajit Roy, University of Delhi, Delhi</i>
06:00 PM – 07:00 PM	GBM OF ISNM



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09:00 AM – 11:00 AM	SESSION II – NANOBIOSENSOR & POINT-OF-CARE DEVICES
Chairperson: <i>Dipankar Bandyopadhyay, IIT - Guwahati</i> Co-Chair: <i>Dr. Ravikrishnan Elangovan, IIT – Delhi</i>	
09:00 AM – 09:45 AM	Goodbye Hospitals: Hello Nanosensors <i>Prof. Thomas Webster, Northeastern University, USA</i>
09:45 AM – 10:05 AM	Design and Development of Proof-of-Concept Biosensors Based on Engineered Surfaces and Nanomaterials <i>Dr. Pranjal Chandra, IIT – Guwahati</i>
10:05 AM – 10:25 AM	A Combined Impedance Spectroscopy and Dielectrophoresis (IS-DEP) Platform for Live Bacterial Cell Monitoring and Analysis <i>Dr. Shalini Gupta, IIT – Delhi</i>
10: 25 AM – 10:45 AM	<i>Recent Advancement of Biocompatible Diagnostic Surface Enhanced Raman Scattering (SERS)-Nanoprobe for Spectroscopic Detection and Bioimaging of Human Lung Cancer and Metastatic Melanoma</i> <i>Prof. Kaustab Kumar Maiti, CSIR - NIIST</i>
10:45 AM – 11:00 AM	Nanofibres based biosensing platform for Vitamin D detection <i>Dr. Pratima Solanki, JNU, Delhi</i>
11:00 AM – 11:30 AM	Tea-Break
11:30 AM – 12:00 PM	Trigger Talk - DNA Nanobiotechnology <i>Prof. K N Ganesh, IISER - Tirupati</i>



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12:00 PM – 01:15 PM	SESSION IV – PANEL DISCUSSION ON SAFETY AND REGULATORY ISSUES IN NANOTECHNOLOGY
<p>Chairperson: <i>Prof. Y. K. Gupta, AIIMS - Bhopal</i></p> <p>Co-ordinator: <i>Prof. A. K. Dinda, AIIMS – Delhi</i></p> <p style="text-align: center;">Panelist:</p> <p><i>Dr. Suchita Ninawe, DBT; Prof. K. N. Ganesh, IISER – Tirupati; Dr. Anil Mishra, INMAS; Dr. Swarup Kumar Sarkar, ICMR; Ishwara Reddy, DCGI; Dr. Alok Adholeya, TERI; Dr. Suman Chakravarti, IIT – Kharagpur.</i></p>	
01:15 PM – 02:15 PM	Lunch
02:15 PM – 02:30 PM	Indian Society of Nanomedicine - Bridging the gap between Academia - Industry <i>Prof. A. K. Dinda, General Secretary, ISNM</i>
02:30 PM – 03:55 PM	SESSION V – ORAL PRESENTATION <i>Talks by Post-Docs/PhD Scholars (Competitive Session)</i>
<p style="text-align: center;">Chairperson: <i>Dr. Aasheesh Srivastava, IISER - Bhopal</i></p> <p>The session is a competitive session. The speakers will be selected from the abstracts received for oral presentation by the Scientific Committee of NANOBIOTECK – 2019</p> <p>7 Minutes Presentation + 3 Minutes Discussion</p>	
02:30 PM – 02:40 PM	Coupled Effects of Nanotopography and Titania Coating on Cobalt Chromium Coronary Stents in Improving in vivo Performance <i>Aleena Mary Cherian, AIMS - Kochi</i>
02:40 PM – 02:50 PM	Near-infrared and electric field multi-responsive silk nanocomposite hydrogel for localized and synergistic tumor therapy <i>Ankit Gangrade, IIT – Guwahati</i>
02:50 PM – 03:00 PM	Self-Propelling Magneto-Nanobots For Tumor Targeting And Modulate Intracellular Anticancer Drug Delivery <i>Kshama D. Dhobale, MIMER, Pune</i>



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03:00 PM – 03:10 PM	Minimalistic Peptide Bioglass Hydrogel as Bone Matrix Mimick <i>Nidhi Gupta, INST - Mohali</i>
03:10 PM – 03:20 PM	Rationally Designed Bioinspired δ- Amino Valeric Acid Based Hydrogel: One Shot Solution for Drug Delivery and Effluent Management <i>Priyanka Tiwari, RGTU, Bhopal</i>
03:20 PM – 03:30 PM	Smartphone and Nanoparticle Assisted Heavy Metal ion Sensing from Aquatic Systems <i>Reethu Haridas, CSIR – NIIST, Trivandrum</i>
03:30 PM – 03:40 PM	SEMICONDUCTING BIOFILMS AND THEIR EMERGENT OPTO-ELECTRONIC PROPERTIES <i>Sanhita Ray, University of Calcutta, Kolkata</i>
03:40 PM – 03:50 PM	Nanostructured Biomaterial For Enhancing The Differentiation of hMSCs into Dopaminergic Neurons <i>Sonali Rawat, AIIMS, Delhi</i>
03:50 PM – 04:00 PM	Protein Templated Gold Nanoclusters as In-vivo and In-vitro Quantitative Estimator of Hg(II) Ion and Specific Bio-Imaging Probe <i>Subhajit Chakraborty, IISER - Bhopal</i>
04:00 PM – 04:10 PM	<i>In-vitro</i> and <i>In-vivo</i> evaluation of biocompatible and biodegradable carboxymethyl starch as a topical hemostat <i>Vineeta Panwar, INST, Mohali</i>

04:10 PM – 04:30 PM	Talk by Anton Paar
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04:30 PM – 06:30 PM	Tea-Break + POSTER SESSION Judges: <i>Prof. Tinku Basu, Amity University, Noida</i> <i>Prof. Pratima Chaudhuri, Amity University, Noida</i>
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09:00 AM – 11:00 AM	SESSION VI – NANOTECHNOLOGY APPLICATION IN TISSUE ENGINEERING
Chairperson: <i>Prof. Maneesh Singhal, AIIMS, Delhi</i> Co-Chair: <i>Dr. Biman Mandal, IIT - Guwahati</i>	
09:00 AM – 09:30 AM	<i>Electroosmotic Flow Driven Microfluidic Device for Bacteria Isolation Using Magnetic Microbeads</i> <i>Prof. Rupak Banerjee, University of Cincinnati, USA</i>
09:30 AM – 09:50 AM	Stem Cell derived Exosome: The new therapeutic modalities <i>Dr. Sujata Mohanty, AIIMS, New Delhi</i>
09:50 AM – 10:10 AM	Innovative nano-engineering of biomaterials for translational advancements in healthcare <i>Prof. Deepthy Menon, AIMS – Kochi</i>
10:10 AM – 10:30 AM	<i>The Interaction of Carbon dots with Endothelial cells: an Important Aspect for Biomedical Applications</i> <i>Prof. Deepa Ghosh, INST, Mohali</i>
10:30 AM – 10:45 AM	Regenerative Medicine from Nanofibrous Extracellular Matrix <i>Prof. Narayan Chandra Mishra, IIT - Roorkee</i>

10:45 AM – 11:00 AM	Tea-Break
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11:00 AM – 12:00 PM	SESSION III – EMERGING CONCEPTS AND INNOVATIONS IN INDIA <i>Talks by Young Investigators (Early Career Faculties/Scientists)</i>
Chairperson: <i>Prof. Manzoor K, AIMS - Kochi</i> The session is a competitive session. The speakers will be selected from the abstracts received for oral presentation by the Scientific Committee of NANOBITECK – 2019	



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11:00 AM – 11:10 AM	Nano-Bio-Conjugates Trojan Horses or Wolf's in a Sheep's Clothes: Addressing the Challenge Using Non - Invasive Imaging <i>Dr Rashi Mathur, DCRS, INMAS - Delhi</i>
11:10 AM – 11:20 AM	Nanoparticles Aided Drug Delivery for Neuroinflammation Treatment <i>Dr. Abhijeet Singh, Manipal University – Jaipur</i>
11:20 AM – 11:30 AM	Customizing Raman Spectroscopy for Point of Care and Testing Applications <i>Dr. Karuvath Yoosaf, CSIR – NIIST, Trivandrum</i>
11:30 AM – 11:40 AM	DNA Enabled Design of Multimodal Nanoparticles for Cancer Theranostics <i>Dr. Suchetan Pa, IIT - Raipur</i>
11:40 AM – 11:50 AM	Quantification of Therapeutic Parameters for Plasmonic Photothermal Therapy of Cancer <i>Dr. Sanjeev Soni, CSIO, Chandigarh</i>
11:50 AM – 12:00 PM	Optical detection of Glutathione using random plasmonic metasurfaces based Nanobiosensors <i>Dr. V H S Moorthy, Manipal University</i>

12:00 PM – 12:30 PM	VALEDICTORY FUNCTION AND AWARD DISTRIBUTION
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12:30 PM – 01:15 PM	Lunch
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