

Tentative Scientific Program of ICNB 2025

Day 1: 03rd February 2025 (Monday)			
Session 1: Inaugural of ICNB 2025			Venue: Humanities Hall, UoR, Jaipur
09:00- 09:15	Arrival of participants and registration		
09:15-10:20	Inaugural function of ICNB 2025		
10:20-11:00	P-1	Ashutosh Sharma President, INSA, New Delhi	Harnessing Self-organisation in Confined Soft Materials for Micro- and Nanofabrication
11:00-11:30	Tea Break		
Session 2:			Venue: Humanities Hall, UoR, Jaipur
11:30-11:50	I-1	Young Ho Kim IKCRI, New Delhi	Microfluidic based biosensors
11:50-12:10	I-2	Dhiraj Bhatia IIT Gandhinagar	DNA based nanodevices for biomedical applications
12:10-12:30	I-3	Ajay Tijore IISc, Bangalore, India	Nanoscale ligand spacing regulates mechanical force-induced cancer cell killing
12:30-12:50	I-4	Reji Varghese IISER Thiruvananthapuram, India	Mitochondria targeting DNA nanoparticles for organelle-specific ROS generation
12:50-01:00	C-1	Raghu Solanki IIT Gandhinagar, India	Biopolymeric Nanocarriers: A Promising Strategy for Targeted Delivery of Phytochemicals in Cancer Therapy
01:00-02:00	Lunch Break		
Session 3:			Venue: Humanities Hall, UoR, Jaipur
02:00-02:20	I-5	Kosheleva Nastasya Sechenov University, Russia	Secretome of Mesenchymal Stem Cells: Implications for Regenerative Medicine
02:20-02:40	I-6	Ashok M Raichur IISc, Bangalore, India	Mucin-capped CuS nanodots for deep tumor combination therapy and multispectral photoacoustic tomography
02:40-03:00	I-7	Suman Singh CSIR-CSIO, India	Role of Nanotechnology in Sustainable Environment and Healthcare
03:00-03:10	C-2	Yana Khristidis Sechenov University, Russia	Study of Collagen-Based Scaffolds in Experimental Surgery for Augmentation Urethroplasty
03:10-03:20	C-3	Aadithya Salbi CUST, India	Green Synthesized Gold Cellulose Nano-Conjugate System for Targeted Cancer Drug Delivery and Bioimaging Applications
03:20-03:30	C-4	Pratistha Bhagat NIT Raipur, India	Estimation of oil triglyceride in environmental sample via nanozyme-based hydrolysis
03:30-04:00	Tea Break		

Session 4:**Venue: Humanities Hall, UoR, Jaipur**

04:00-04:20	I-8	V Badireenath Konkimalla NISER, Odisha, India	Redox-responsive polymeric-lipid hybrid nanocarriers for better targeting of cancer cells
04:20-04:40	I-9	Partha Roy IIT Roorkee, India	Assessment of neural tissue regeneration by combining bioengineering approaches and bioactive compounds
04:40-05:00	I-10	K K Dey IIT Gandhinagar, India	Non-Thermal Active Fluctuations & Particle Dynamics in Crowded Colloidal Environments
05:00-05:20	I-11	Jitendra Bahadur, BARC Mumbai, India	Unveiling Interplay of Complex Interactions among Multi-component Colloids and their Role in Encapsulation of Drug Molecules
05:20-05:30	C-5	Amit Kumar Yadav IIT Gandhinagar, India	Development of ssDNA Aptamers Targeting H. pylori and Their Application in Conductive Hydrogel Biosensors for Gastric Cancer Diagnosis
05:30-05:40	C-6	Krishna Kumar SGVU Jaipur, India	Facile synthesis of photo-stable gold nanostars for efficacious cancer chemo-photothermal therapy
05:40-05:50	C-7	Amlan Ashish IIT Kharagpur, India	A study on the dynamics of bacterial growth using biocompatible 3D-printed microfluidic device
05:50-06:00	C-8	Ankush Agrawal UoR Jaipur, India	Fabrication of Antibiofouling Nanocomposite Membranes for wastewater treatment
06:00-06:30	Tea Break		
06:30-07:30	Cultural Program		
07:30-08:30	Dinner		

Day 2: 04th February 2025 (Tuesday)
India-Korea Science & Technology Networking

Session 5:				Venue: Ramaswami Hall, Dept of Zoology			
09:00-09:30	P-2	Shobha Shukla IIT Bombay, India	2D/3D nanopatterns for bio-applications				
09:30-10:00	P-3	Tae Jin Ahn Handong Global University, South Korea	Liquid biopsy for early detection of cancer				
10:00-10:30	P-4	Prashant Mishra IIT Delhi, India	Bioreceptors for the Enhanced Selectivity of Biosensors				
10:30-11:00	P-5	Iren E. Kuznetsova Kotelnikov Institute RAS, Russia	Multidirectional Acoustic Plate Wave Device for Bacterial Cells Detection in Cultural Liquid Media				
11:00-11:30	Tea Break						
Session 6: Venue: Seminar Hall, Dept of Zoology				Session 7: Venue: Ramaswami Hall, Dept of Zoology			
11:30-11:50	I-12	Suk Won Hwang, Korea University	Soft, Resorbable Bioelectronics	I-16	Manu Lopus UM-DAE, CEBS, India	Anticancer properties of phytofabricated, nanogold-based, pheroceuticals	
11:50-12:10	I-13	Gyu Man Kim, Kyungpook Nat. Univ.	Fabrication of Microfluidic devices for enzymatic bio fuel cell	I-17	Asish Pal INST Mohali	Supramolecular Peptide Hydrogels toward Bioinspired Adaptive ECM-mimic	
12:10-12:30	I-14	Oh Seok Kwon, Sungkyunkwan Univ		I-18	Umesh Gupta CURAJ, India	Peptide Conjugated Dendrimers Mediated delivery of Temozolomide for the Effective Treatment of Glioblastoma	
12:30-12:50	I-15	Heyrim Lee, Sungkyunkwan Univ	Tissue-adhesive bioelectronics featuring adaptive stiffness and self-healing properties	I-19	Sangita Roy INST Mohali, India	Designing supramolecular hydrogel scaffolds from minimalistic peptides for healthcare applications	
12:50-01:00	C-9	Anshul Joshi IKCRI, New Delhi	India-Korea Science & Technology Cooperation	C-10	Deepshikha Sekhawat IIS Univ Jaipur, India	Neurobehavioral Disruptions from Polystyrene Microplastics: Anxiety and Learning Impairments in Diabetic Mice	
01:00-02:00	Lunch Break						
Session 8: Venue: Seminar Hall, Dept of Zoology				Session 9: Venue: Ramaswami Hall, Dept of Zoology			
02:00-02:20	I-20	Mukesh Dhanka IIT Gandhinagar, India	A Quickly Translatable Hydrogel Platform for Endoscopy Mediated Polyp Removal	I-23	Avanish Singh Parmar IIT BHU, Varanasi	Conductive Hybrid Hydrogel of Carbon Nanotubes-Protein-Cellulose: In vivo Treatment of Diabetic Wound via Photothermal Therapy and Tracking Real-Time Wound Assessment	
02:20-02:40	I-21	Gurpal Singh PU Chandigarh, India	Next-Generation Nanomaterials for Biosensing and Bioimaging	I-24	Avneet Saini PU Chandigarh, India	A Novel approach of Reduced Graphene Oxide functionalized with artificial peptides for wound care regimes	

02:40-03:00	I-22	Kamlesh Kumar CU Jammu, India	Thermochromic Smart Polymer Materials and Applications	I-25	Syed M Ahmad Sher-E-Kashmir Univ. India	A Comprehensive Strategy for Tissue Repair: From Natural Polymers to Synthetic Scaffolds
03:00-03:10	C-11	Neelam Vishwakarma CSIR-CSIO Chandigarh	Graphitic carbon Nitride (GCN) based Electrochemical Immunosensor for HE4 Ovarian Cancer Biomarker Detection	C-14	Devendar Chauhan MNIT Jaipur	Novel biomimetic patterned membrane surfaces with enhanced antifouling performance in water treatment: A computational study
03:10-03:20	C-12	Shiv Dutta Lawaniya MNIT Jaipur	Nitrogen-doped CNO PPy nanocomposite-based low-cost, flexible sensor for ammonia	C-15	Neha Redkar, IIT Bombay, India	Graphene oxide: A 2D Biomimetic Nanomaterial for Bacterial Growth Enhancer
03:20-03:30	C-13	Neelam Meena UoR Jaipur, India	Effect of Different Nanomaterials on Callus Biomass,..... in Tagetes erecta L. Var. Sweet Orange	C-16	Debashree Kar IIT Delhi, India	Biofabricated Tungsten Oxide-Based FET Biosensor for Real-Time Detection of CYFRA 21-1 Oral Cancer Biomarker in Artificial Saliva
03:30-04:30	Tea Break					
Session 10: Venue: Seminar Hall, Dept of Zoology				Session 11: Venue: Ramaswami Hall, Dept of Zoology		
04:00-04:20	I-26	R P Barnwal PU Chandigarh	Structure to Drug development for different RNA targets	I-30	Deepika Sharma INST, Mohali, India	Advancing Cancer Therapy: Magnetic Hyperthermia and Immune Activation through Nanomaterials
04:20-04:40	I-27	Vivekanand MNIT Jaipur, India	Biomass to Bioenergy	I-31	Mousumi Debnath Manipal Univ. Jaipur	Lignocellulosic waste and Biosurfactant-Producing Microorganisms for synergistic production of sustainable biomaterials
04:40-05:00	I-28	Kamlendra Awasthi MNIT Jaipur	Detection of Foodborne Pathogens through VOC Sensing	I-32	Ravneet Kaur PU Chandigarh, India	Evaluation And Assessment of Synthetic and Natural Hydroxyapatite Nanotoxicity on Development of Zebrafish Embryo
05:00-05:20	I-29	Kunal Mondal ORNL, USA	Carbon nanomaterials and structures for biological application	I-33	Karunakar Kar JNU, New Delhi	Nano Strategy to Target Amyloid Diseases
05:20-06:30	Flash Talks			Flash Talks		

Day 3: 05th February 2025 (Wednesday)

Session 12:		Venue: Ramaswami Hall, Dept of Zoology	
09:00-09:30	P-6	Antonella Motta University of Trento, Italy	Innovative and Sustainable Biopolymer based Technological Platform for Tissue Engineering Applications
09:30-10:00	P-7	Peter Timashev Sechenov University, Russia	Bioprinting: the latest advances and perspectives
10:00-10:30	P-8	Devleena Samanta University of Texas, USA	Surface-Engineered Nanoparticles for Enhancing Enzyme Activity
10:30-11:00	P-9	Manoj Varma, CeNSE, IISc Bangalore, India	Single entity sensing using nanopores
11:00-12:20	Tea Break & Poster Session		
Session 13:		Venue: Ramaswami Hall, Dept of Zoology	
12:20-12:40	I-34	Santosh K Misra, IIT Kanpur, India	A Cross-talk in Nanocarbon Enforced Thermo-Responsive Hydrogel Causes Micro-Environment Responsive Skeletal Muscle Regeneration
12:40-01:00	I-35	Apurba K Das IIT Indore	Engineering of Dynamic Soft Biomaterials for Biomedical Applications
01:00-02:00	Lunch		
02:00-06:30	City Visit		
07:30	Dinner		

Day 4: 06th February 2025 (Thursday)

Session 14:		Venue: Ramaswami Hall, Dept of Zoology	
09:00-09:30	P-10	Katy Margulis Hebrew Univ. of Jerusalem, Israel	Stereoselective Interactions of Chiral Polyurea Nanocapsules with Albumins
09:30-09:50	I-36	Suchetan Pal IIT Bhilai, India	Glucose-responsive Hydrogels Towards Artificial Pancreas
09:50-10:20	I-37	Nidhi Gupta CSIR-IITR Lucknow, India	Versatile Applications of Bioinspired Silica based Bioceramic Nanomaterials
10:20-10:40	I-38	Tabli Ghosh Tezpur University, India	Natural Nanofillers for Designing High Performance Sustainable Packaging
10:40-11:00	I-39	Shilpi Chaudhary PEC Chandigarh, India	Protein recognition on molecularly imprinted surfaces by Nonlinear spectroscopy
11:00-11:30	Tea Break		
Session 15:		Venue: Ramaswami Hall, Dept of Zoology	
11:30-11:50	I-40	N C Mishra IIT Roorkee, India	Biomimetic Extracellular Matrix Scaffolds for Tissue Engineering
11:50-12:10	I-41	Nidhi Pareek CURAJ, India	Nano-Chitin based sustainable formulations for pollutant mitigation and agricultural applications
12:10-12:30	I-42	Harsh Pandey Manipal Univ Jaipur, India	Multi-scale Simulations: From micro-scale trapping and bio-separation, to anti-fouling membranes, and to biosensors for detecting emerging pollutants
12:30-12:50	I-43	Priyanka Singh NIMS Jaipur, India	Therapeutic efficacy of Nano herbal sanitizer synthesized from leave extract of against food borne pathogens
12:50-01:00	C-17	Nishel Saini MNIT Jaipur, India	Polyaniline-modified silica gel as stationary phase material in gas chromatography column for the isolation of hydrogen and carbon dioxide gases
01:00-01:30	Valedictory session		
01:30-02:30	Lunch		