

SCIENTIFIC PROGRAMME WCN-2026

Sunday, September 27, 2026 (Day 01)

08:30 – 10:30 am		Registration (Venue: Lobby)	
10:30 – 12:00 pm		Inaugural Session Venue: Plenary Hall	
12:00 – 12:30 pm		High Tea	
12:30 – 14:00 pm		Technical Session 1 PLENARY SPEAKER Venue: Plenary Hall	
Chair: Prof. S. E. Hasnain, Hon. Prof., National Science Chair, IIT Delhi & Distinguished Prof., Sharda University & Prof. Rajesh Gokhale, Secretary, Department of Biotechnology, Govt. of India			
12:30 – 13:15 pm	PL-1	Speaker: Prof. Roger D. Kornberg (Nobel Laureate), Stanford University, USA Title: TBD	
13:15 – 14:00 pm	PL-2 Online	Speaker: Speaker: Prof. T.M.S Chang, McGill University, Montreal, QC, Canada (Honorary President, International Society for Nano Medical Sciences) Title: TBD	
13:15 – 14:00 pm	Poster Presentation PP 1: (01-50)		
14:00 – 15:00 pm	Lunch		
15:00 – 16:35 pm		Technical Session 2 PLENARY SPEAKER Venue: Plenary Hall	
Chairpersons		Prof. Gobardhan Das, Member, NITI Aayog, India Prof. S.K. Sarin, Institute of Liver and Biliary Sciences (ILBS), New Delhi	
15:00 – 15:45 pm	PL-3 (Online)	Speaker: Prof. R. A. Mashelkar, Former Director General, CSIR Title: From Nano-Scale Science to Humanity-Scale Impact: More from Less for More	
15:50 – 16:35 pm	PL-4	Speaker: Prof. G. P. Talwar, Talwar Research Foundation, New Delhi Title: End to End mission-oriented research	
16:35 – 17:00 pm	Tea		
PARALLEL SESSIONS			
17:00 – 18:20 pm		Technical Session 3 Venue: Plenary Hall	
Chairpersons		Prof. Nikolay E. Nifantiev, N.D. Zelinsky Institute of Organic Chemistry; RAS, Moscow, Russia	
17:00 – 17:35 pm	KN-1	Speaker: Prof. S. E. Hasnain, Hon. Prof., National Science Chair, IIT Delhi & Distinguished Prof., Sharda University Title: Is Global Elimination of the Disease Tuberculosis (TB) Possible	
17:40 – 18:05 pm	IL-1	Speaker: Dr. Tiju Thomas, Indian Institute of Technology, Madras, India Title: Disease as a materials phenomenon: Reading the chemistry, structure, and mechanics of life	
18:10 - 18:20 pm	OL-1	Speaker: Dr. Ganesh Sahoo, ICMR-RMNIHR, Patna Title: From AI-Designed Antivirals to Precision Nanomedicine: Future Therapeutic Strategies against Hemorrhagic Viral Diseases	
18:20 – 19:30 pm	PP-2	Poster Presentation (51-100)	
19:30 – 20:30 pm		Dinner	
17:00 – 18:20 pm		Technical Session 4 Venue: Hall 5	
Chairpersons		Prof. Shrikant Kukreti, Department of Chemistry, University of Delhi, India Prof. Satish K. Awasthi, Department of Chemistry, University of Delhi, India	
17:00 – 17:35 pm	KN-2	Speaker: Prof. Tej P. Singh, All India Institute of Medical Sciences, New Delhi, , India Title: Beyond Prediction: Why experimentally determined protein structures remain essential for drug design	
17:40 – 18:05 pm	IL-2	Speaker: Prof. Neetu Singh, Indian Institute of Technology, Delhi, , India Title: Naturally derived vesicle-based smart therapeutics for biomedical applications	
18:10 – 18:20 pm	OL-2	Speaker: Dr. Akhil Jain, The University of Manchester, Manchester, United Kingdom Title: Engineering Quantum Nanomedicine for Decoding and Programming Cellular Electrical Landscapes	
18:20 – 19:30 pm	PP-2	Poster Presentation (51-100)	
19:30 – 20:30 pm		Dinner	
17:00 – 18:20 pm		Technical Session 5 Venue: Hall 4	
Chairpersons		Prof. Satya Prakash, McGill University, Canada Dr. Vadim Krylov, ZIOC RAS, Moscow, Russia	
17:00 – 17:35 pm	KN-3	Speaker: Prof. Vibha Tandon, Director, CSIR-IICB Kolkata, WB, India	



WORLD CONGRESS ON NANOMEDICINE 2026

27th - 29th September, 2026
Vigyan Bhawan, New Delhi, India



		Title: Identification of MUCIN 7 as Tumor Suppressor and Diagnostic Biomarker in Oral Squamous Cell Carcinoma followed by Therapeutic Intervention by small molecule
17:40 – 18:05 pm	IL-3	Speaker: Dr. Vinoth Kumar Lakshmanan, Sri Ramachandra Institute of Higher Education and Research, Chennai, India Title: Assessment of Tandem Therapeutic Potential of Enzalutamide and Decursin <i>In Vivo</i> Using Elastin Carrier
18:10 – 18:20 pm	OL-3	Speaker: Dr Amit Kumar Yadav, Department of Biological Sciences and Engineering, Indian Institute of Technology, Gandhinagar, India Title: Programmable Tetrahedral DNA Nanoarchitectures for Smartphone-Assisted Attomolar Detection of Interleukin-6 In Precision Inflammatory Diagnostics
18:20 – 19:30 pm	PP-2	Poster Presentation (51-100)
19:30 – 20:30 pm	Dinner	

SCIENTIFIC PROGRAMME WCN-2026

Monday, September 28, 2026 (Day 02)

PARALLEL SESSIONS			
09:30 – 11:20 am	Technical Session 6		Venue: Hall 4
Chairpersons	Prof. Sirsendu Sekhar Ray, North Eastern Hill University, Shillong, India Prof. Anita Kamra Verma, Adjunct Faculty, INMS, India		
09:30 – 10:05 am	KN-4	Speaker: Prof. Rongjun Chen, Imperial College London, UK Title: Nature-inspired strategies for biomacromolecule delivery and stability	
10:10 – 10:35 am	IL-4	Speaker: Dr Raviraj Vankayala, Indian Institute of Technology, Jodhpur, India Title: Programming light and matter for precision biology	
10:40 – 11:05 am	IL-5	Speaker: Prof Biswadip Banerjee, CSIR IICB, Kolkata Title: Peptide Based Enamine Switches and their Therapeutic Efficacies	
11:10 – 11:20 am	OL-4	Speaker: Prof. Amineni Umamaheswari, Sri Venkateswara Institute of Medical Sciences, Tirupati, Andhra Pradesh Title: Design of frizzled class receptor 2 targeted novel car-t cell constructs for breast cancer immunotherapy	
11:20 – 11:40 am	Tea		
09:30 – 11:20 am	Technical Session 7		Venue: Hall 5
Chairpersons	Prof. Rita Singh, Department of Zoology, University of Delhi, India Prof. Shashi Bala Singh, NASI Senior Scientist, ACBR, University of Delhi, Delhi, India		
09:30 – 10:05 am	KN-5	Speaker: Prof. Nikolay E. Nifantiev, N.D. Zelinsky Institute of Organic Chemistry (RAS), Moscow, Russia Title: Development of Automated Systems for Highly Specific Glycodiagnostics with Pg/MI-Sensitivity of Glycomarker Detection	
10:10 – 10:35 am	IL-6	Speaker: Dr. Motilal Mathesh, Deakin University Geelong, Australia Title: The Journey from Enzyme to Nanomotors: Engineering Smart Delivery Systems	
10:40 – 11:05 am	IL-7	Speaker: Dr. Subhash Chandra Yadav, AIIMS, New Delhi, India Title: Nanoengineered Immunofluorescence Assay for Fast and Sensitive Detection of Cervical Cancer at early stage	
11:10 – 11:20 am	OL-5	Speaker: Dr. Nikita Yabbarov, Russia, N.M. Emanuel Institute of Biochemical Physics of RAS, Russia Title: Fishing for bacteria: an insect LysM protein platform for high-throughput capture and SERS identification	
11:20 – 11:40 am	Tea		
09:30 – 11:20 am	Technical Session 8		Venue: Hall 6
Chairpersons	Prof. Jai Gopal Sharma, DTU, India Prof. R. Nagarajan, Department of Chemistry, University of Delhi, India		
09:30 – 10:05 am	KN-6	Speaker: Prof. Alicia El Haj, University of Birmingham, Birmingham, UK Title: Remote nanomagnetic activation of mechanotransduction: principles, therapies, and translational challenges	
10:10 – 10:35 am	IL-8	Speaker: Dr. Asmita Mehta, AIMS, Kochi, India Title: Nanotechnology in respiratory medicine: From diagnostics to targeted therapy	
10:40 – 11:05 am	IL-9	Speaker: Dr. Subash Chandra Gupta, AIIMS, Guwahati, India Title: Harnessing Exosome-Based Delivery to Enhance the Anticancer Activity of an Alkaloid in Triple-Negative Breast Cancer	
11:10 – 11:20 am	OL-6	Speaker: Dr. Swetha K, IISER Thiruvananthapuram Title: Biological Degradation of Graphitic Carbon Nitride Sheets and Autophagy Induction in Macrophages	
11:20 – 11:40 am	Tea		
11:40 – 13:30 pm	Technical Session 9		Venue: Hall 4
Chairpersons	Prof. Vibha Tandon, Director, CSIR-IICB Kolkata, WB, India		

	Prof. Nasreen Z. Ehtesham, Distinguished Prof., Sharda University, Ex. Director of ICMR, Institute of Pathology, Safdarjung Hospital	
11:40 – 12:15 pm	KN-7	Speaker: Prof. Sylvain Martel, Polytechnique Montréal, L'Île Bizard, CA Title: Nanorobotic agents for improving targeted drug delivery in cancer therapy
12:20 – 12:45 pm	IL-10	Speaker: Prof Pradip Paik, Indian Institute of Technology, BHU Title: Novel polymeric nanomedicine for Neuroregeneration/protection, Tissue regeneration and Anti-inflammation
12:50 – 13:15 pm	IL-11	Speaker: Dr. Rashmi Rana, Sir Ganga Ram Hospital, Delhi Title: SPION-Exo-Mediated Delivery of Temozolomide across the Blood-Brain Barrier for Enhanced Brain Tumor Treatment
13:20 – 13:30 pm	OL-7	Speaker: Dr. Jigneshkumar V. Rohit, Sardar Vallabhbhai National Institute of Technology, Surat Title: Enhancing the medicinal potency of high-value himalayan herb <i>colchicum luteum</i> by forming biogenic silver nanoparticle-based nanobiomedicine: antimicrobial, anticancer and antioxidant evaluation
13:30 – 14:30 pm	Lunch	
13:30 – 14:30 pm	PP-3	Poster Presentation (101-150)
11:40 – 13:30 pm	Technical Session 10 Venue: Hall 5	
Chairpersons	Prof. Mauro Ferrari, President, CEO, and Board Chair of BrYet US, Inc. in Houston, Texas Prof. Bhuvnesh Kumar, Dean Research, Sharda University	
11:40 – 12:15 pm	KN-8	Speaker: Prof. Eun Ha Choi, Director, Kwangwoon University Title: Non-Thermal Atmospheric Pressure Plasma Sources and their Long-Lived Nanobubbled Nitric Oxide (No) Water for Quantum Agriculture, Bioscience and Environment
12:20 – 12:45 pm	IL-12	Speaker: Prof. Sirsendu Sekhar Ray, North Eastern Hill University, Shillong Title: Atomic-Scale Mechanistic Insights into the Hydrothermal Synthesis of Ultra-Nanocrystalline Diamonds
12:50 – 13:15 pm	IL-13	Speaker: Dr. Irina A Boginskaya, Institute for Theoretical and Applied Electromagnetics, Russian Academy of Sciences, Moscow, Russia Title: Determination of Cardiac Risks based on blood Serum Analysis using SERS spectroscopy and Machine Learning Methods
13:20 – 13:30 pm	OL-8	Speaker: Dr. Manoj Tembhre, AIIMS, New Delhi, India Title: Pgc1 α Agonist loaded Garlic Derived Exosome like Nanoparticles Rescues Doxorubicin-Induced Cardiomyopathy
13:30 – 14:30 pm	Lunch	
13:30 – 14:30 pm	PP-3	Poster Presentation (101-150)
11:40 – 13:15 pm	Technical Session 11 Venue: Hall 6	
Chairpersons	Prof. Sunita Hooda, ANDC, University of Delhi, India Dr. Baishnab Charan Tripathy, Sharda University, Noida, UP	
11:40 – 12:15 pm	KN-9	Speaker: Dr. Sanjeeb Sahoo, Institute of Life Sciences, Bhubaneswar Title: Phytonanomedicine in Breast Cancer Therapy: Bench to Bedside and Beyond
12:20 – 12:45 pm	IL-14	Speaker: Dr. Elena Nikolskaya, N.M. Emanuel Institute of Biochemical Physics of Russian Academy of Sciences; Title: Polymeric Nanoparticles for Biomedical Applications: Design, Biological Properties, and Therapeutic Efficacy in Cancer Treatment
12:50 – 13:15 pm	IL-15	Speaker: Dr. Lyubov Yurina, IBCP RAS, Russia Title: Surface-enhanced Raman spectral features enrichment by selective protein enzymatic digestion: D ^o new approach for PTM search.
13:20 – 13:30 pm	OL-9	Speaker: Dr. Chiranjeevi Korupalli, SRM University AP, Guntur, India Title: Development of Tumor Microenvironment-modifying Nanoparticles for Multimodal Cancer Cell Killing <i>in vitro</i>
13:30 – 14:30 pm	Lunch	
13:30 – 14:30 pm	PP-3	Poster Presentation (101-150)

14:30 – 16:20 pm	Technical Session 12		Venue: Hall 4
Chairpersons	Prof. Alicia El Haj, University of Birmingham, UK Prof. Alok C. Bharti, Department of Zoology, University of Delhi, Delhi		
14:30 – 15:05 pm	KN-10	Speaker: Prof. Qiang Zhang, Changchun, Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China Title: Fabrication of Electrochemical Sensors for Brain-Computer Interfaces and Sweat Analysis	
15:10 – 15:35 pm	IL-16	Speaker: Prof. Jyotsnendu Giri, Indian Institute of Technology, Hyderabad Title: Protein-based microneedle-nanovaccine platforms for instant and sustained biomolecule delivery toward cold-chain-free vaccination	
15:40 – 16:05 pm	IL-17	Speaker: Dr. Utkarsh Jain, UPES, Dehradun, India Title: Innovative Nanomaterial-based Strategies for Next-Generation Biosensing, Diagnostics and Therapy	
16:10 – 16:20 pm	OL-10	Speaker: Dr. Shweta Panwar, Indian Institute of Science Bangalore, India Title: A Non-Invasive Saliva-Based Optical Biosensor for Point-Of-Care Glucose Monitoring	
16:20 – 16:40 pm	Tea		
14:30 – 16:20 pm	Technical Session 13		Venue: Hall 5
Chairpersons	Prof. Ashok K Singh, Department of Zoology, University of Delhi Prof. Neera Sharma, Hindu College, University of Delhi		
14:30 – 15:05 pm	KN-11	Speaker: Prof. Mauro Ferrari, President, CEO, and Board Chair of BrYet US, Inc. in Houston, Texas Title: The plateloid approach to enable cancer phenotype targeting	
15:10 – 15:35 pm	IL-18	Speaker: Dr. Amit K. Pandey, NIPER Ahmedabad Title: Targeting the MANCR-miR-205-5p-CASP3 Axis in Glioblastoma: A Molecular Framework for Precision Nanomedicine and Therapeutic Development	
15:40 – 16:05 pm	IL-19	Speaker: Dr. Vera Dorokhova, N.D. Zelinsky Institute of Organic Chemistry, Moscow, Russia Title: Synthesis and Immunochemical properties of Oligosaccharide Conjugates related to <i>Cryptococcus Neoformans</i> Gxmgal	
16:10 – 16:20 pm	OL-11	Speaker: Dr. Nidhi Gupta, CSIR - Indian Institute of Toxicology Research Title: Dynamic Peptide Nanomaterials: From Adaptive Mechanics and Self-Healing to Bone-Mimetic Regenerative Matrices	
16:20 – 16:40 pm	Tea		
14:30 – 16:20 pm	Technical Session 14		Venue: Hall 6
Chairpersons	Prof. Rama Kant, Department of Chemistry, University of Delhi, India Prof. R. K. Seth, Department of Zoology, University of Delhi.		
14:30 – 15:05 pm	KN-12	Speaker: Prof. Pravindra Kumar, Indian Institute of Technology, Roorkee, India Title: Structure-Guided Engineering of EstS1 for Micro- and Nanoplastic Detoxification: A Preventive Nanomedicine Approach	
15:10 – 15:35 pm	IL-20	Speaker: Dr. Goranchand Dutta, Indian Institute of Technology, Kharagpur, India Title: NanoBio Technology Enabled Electrochemical Sensor Devices for onsite Applications	
15:40 – 16:05 pm	IL-21	Speaker: Dr. Anwar Alam, Sharda University, Greater Noida Title: New Therapeutic interventions against TB: polypharmacological approaches for overriding M.tb resilience	
16:10 – 16:20 pm	OL-12	Speaker: Dr. Rohit Kumar Mishra, Central University of Allahabad, Prayagraj, India Title: NF-κB-Mediated SOCS3 Upregulation Contributes to Titanium Dioxide Nanoparticle-Induced Exacerbation of Allergic Airway Inflammation in a Murine Asthma Model	
16:20 – 16:40 pm	Tea		
16:40 – 18:30 pm	Technical Session 15		Venue: Hall 4
Chairpersons	Prof. Anju Katyal, ACBR, University of Delhi, Delhi Prof. Parbati Biswas, Department of Chemistry, University of Delhi, India		
16:40 – 17:15 pm	KN-13	Speaker: Prof. Shin Aoki, Tokyo University of Science, Japan	

		Title: Design and Synthesis of Cyclometalated Iridium(III) Complexes for Applications to Nanoscale Medicine
17:20 – 17:45 pm	IL-22	Speaker: Prof. Nagendra Kumar Kaushik, Kwangwoon University, Seoul, South Korea Title: Plasma-Based Innovations in Bioscience and Nanotechnology
17:50 – 18:00 pm	OL-13	Speaker: Prof. Sunil K. Srivastava, SSN College, University of Delhi, India Title: Design and Utilization of Virus Like Particle Nano-platform for Pandemic Preparedness and One Health Approach
18:05 – 18:15 pm	OL-14	Speaker: Dr. Sonal Singh, Delhi Technological University, Delhi, India Title: Highly Sensitive Terahertz based D-Shaped Dual-Core Photonic Crystal Fiber for Blood Component Detection
18:20 – 18:30 pm	OL-15	Speaker: Prof. Sushant Singh, Sharda University, Greater Noida, UP Title: Recent advances in sustainable biomaterials and nanotechnology: emerging strategies for therapeutics and healthcare
16:40 – 18:30 pm	Technical Session 16 Venue: Hall 5	
Chairpersons	Prof. Rongjun Chen, Imperial College London, UK Prof. S. Uma, Department of Chemistry, University of Delhi, India	
16:40 – 17:15 pm	KN-14	Speaker: Prof. Gopal C. Kundu, KIIT University, Bhubaneswar Title: Chitosan Nanoparticle-mediated RGD-targeted delivery of Raloxifene selectively suppresses Tumor Growth and Angiogenesis in Breast Cancer
17:20 – 17:45 pm	IL-23	Speaker: Prof. Monalisa Mukherjee, Amity University, Noida Title: Click-Engineered Carbon Dots Remodel the Inflammatory Microenvironment to Accelerate Healing of Infected Diabetic Wounds
17:50 – 18:00 pm	OL-16	Speaker: Ms. Diya, Imperial College London, UK. Title: Bio-inspired Nanomedicine for Targeted Thrombolysis
18:05 – 18:15 pm	OL-17	Speaker: Mr. Arun Ghuge, Government Institute of Forensic Science, Nagpur Title: Synthesis and characterization and conjugation of gold nanoparticles for development of diagnostic assay
18:20 – 18:30 pm	OL-18	Speaker: Dr Souradeep Roy, UPES Dehradun, India Title: Cervicare: Advancing Nanotechnology enabled Point-of-Care diagnosis for Cervical Cancer
16:40 – 18:30 pm	Technical Session 17 Venue: Hall 6	
Chairpersons	Prof. Vinod Joshi, Sharda University, Noida, UP Mr. Timur Terentev, ITAE RAS, Moscow, Russia	
16:40 – 17:15 pm	KN-15	Speaker: Prof. Sri Sivakumar, IIT Kanpur Title: Advanced <i>In Vitro</i> Liver Models for Drug-Induced Liver Injury and Transplantation
17:20 – 17:45 pm	IL-24	Speaker: Prof. Ashok Kumar, Indian Institute of Technology, Guwahati Title: Disaggregation of Alzheimer's Amyloid- β Fibrils – An All-Atom Molecular Dynamics Simulation Study
17:50 – 18:00 pm	OL-19	Speaker: Dr. Mohit Sahni, Sharda University, Greater Noida, UP Title: Structural characterization and in vitro anticancer activity of biogenic NiFe ₂ O ₄ nanoparticles
18:05 – 18:15 pm	OL-20	Speaker: Mr Anton Kuznetsov, Zelinsky Institute of Organic Chemistry of Russian Academy of Sciences, Moscow, Russia Title: The Revival of Brucella Cyclic β -(1 $\rightarrow$ 2)-Glucan as a Specific Marker for Infection Detection with Elisa
18:20 – 18:30 pm	OL-21	Speaker: Dr. Jyotirindra Maity, Sharda University, Greater Noida, UP Title: CDK4 inhibitor palbociclib reduces proliferation and mineralization in MAP2K1 + melorheostosis

WORKSHOP

09:30 – 18:00 pm	Technical Session 18	Venue: Hall 2
Workshop	Fabrication of Nanodiagnostic devices	
09:30 – 10:00 am	Inaugural session of the workshop	
Chairpersons	Prof. Kamel Boukhalifa, The National Sanitary Security Agency, Algeria Dr. Akhil Jain, The University of Manchester, Manchester, United Kingdom	
10:00 – 10:30 am	Keynote Lecture: Speaker: Dr. Suveen Kumar, NIPER Ahmedabad, India Title: Nanomaterials synthesis to Electrochemical Diagnostics Devices development	
10:30 – 10:50 am	Invited Lecture: Speaker: Dr. Sachin Kadiyan, Manipal University, India Title: BEYOND THE SKIN BARRIER: MICRONEEDLES FOR NEXT-GENERATION TRANSDERMAL BIOSENSING	
10:50 – 11:00 am	Oral Lecture: Speaker: Dr. Amisha, IIT-BHU, India Title: SnS ₂ nanoflakes-modified electrode for sensitive and selective electrochemical detection of caffeine, theophylline and guaiacol in green tea, green coffee, coffee and tea extracts	
11:00 – 11:20 am	Hands-on-Session	
11:20 – 11:40 am	Tea	
11:40 – 13:30 pm	Hands-on-Session	
13:30 – 15:00 pm	Lunch & Poster Session	
15:00 – 16:20 pm	Hands-on-Session	
16:20 – 16:45 pm	Tea	
16:45 – 18:30 pm	Hands-on-Session	

SCIENTIFIC PROGRAMME WCN-2026

Tuesday, September 29, 2026 (Day 03)

PARALLEL SESSIONS		
09:30 – 11:20 am	Technical Session 19	
	Venue: Hall 4	
Chairpersons	Prof. A. K. Dinda, Amrita Vishwa Vidyapeetham, Faridabad Dr. Nikita Yabbarov, Russia, N.M. Emanuel Institute of Biochemical Physics of RAS, Russia	
09:30 – 10:05 am	KN-16	Speaker: Prof. Neeraj Sinha, Centre of Biomedical Research, SGPGIMS Campus Title: Solid-State NMR Spectroscopy: Revealing the Inner Workings of Bones and Cartilage
10:10 – 10:35 am	IL-25	Speaker: Dr. PVGK Sarma, Sri Venkateswara Institute of Medical Sciences, Tirupati, Andhra Pradesh Title: Hematopoietic stem cells cultured on alginate-agarose gels exhibit osteochondral differentiation abilities
10:40 – 11:05 am	IL-26	Speaker: Dr. Suman Thakur, CCMB Hyderabad, India Title: Novel nanomedicine strategies for advanced stages and metastatic cancer
11:10 – 11:20 am	OL-22	Speaker: Dr. Umesh Kumar, AIIMS, Delhi, India Title: Epigenetic reprogramming by curcumin in breast cancer: reactivation of gstp1, hic1 and cdh1 tumor-suppressive pathways
11:20 – 11:40 am	Tea	
09:30 – 11:20 am	Technical Session 20	
	Venue: Hall 5	
Chairpersons	Prof. Shin Aoki, Tokyo University of Science, Japan Prof. Manisha Tiwari, ACBR, University of Delhi, Delhi	
09:30 – 10:05 am	KN-17	Speaker: Prof. Sujata Mohanty, AIIMS, Delhi Title: Stem cells meet nanotechnology: Next-Gen theranostics
10:10 – 10:35 am	IL-27	Speaker: Prof. Pravin Kesharao Shende, NIPER Mohali, SAS Nagar, India Title: Potential of nanotechnology-based devices in healthcare via pharmaceuticals
10:40 – 11:05 am	IL-28	Speaker: Prof. Ritu Kulshrestha, VPCI, University of Delhi, Delhi Dr. Hemchandra Jha, Indian Institute of Technology, Indore, India Title: Point of Care Biosensors: A nanodiagnostic platform for gut-brain health
11:10 – 11:20 am	OL-23	Speaker: Dr. Nupur Vasdev, GLA, India Topic: Cytosol Targeted Dendronized miRNA Nanovesicles Induced Exercise Mimetic Effects for Obesity Treatment in a Preclinical Mouse Model
11:20 – 11:40 am	Tea	
09:30 – 11:20 am	Technical Session 21	
	Venue: Hall 6	
Chairpersons	Prof. Gopal C. Kundu, KIIT University, Bhubaneswar Dr. Vera Dorokhova, N.D. Zelinsky Institute of Organic Chemistry, Moscow, Russia	
09:30 – 10:05 am	KN-18	Speaker: Prof. Suresh Sahni, William Paterson University, USA Title: Radiopaque Nanomaterials and Nano Biomedicine: Current Status
10:10 – 10:35 am	IL-29	Speaker: Dr. Arindam Banerjee, LifeSenz Cancer Research Labs Pvt Ltd., India Title: <i>In vitro/Ex vivo</i> development of Human-Relevant Disease Models to Functionally characterize Nanomedicines
10:40 – 11:05 am	IL-30	Speaker: Dr Heena Tabassum, ICMR, New Delhi, India Title: Nanotechnology-driven solutions for India's priority health challenges: An ICMR initiative
11:10 – 11:20 am	OL-24	Speaker: Ms. Julia Zvyagina, Russian Academy of Sciences, Russia Title: Qualitative and Quantitative Determination of Fungal and Bacterial Infection Glycan Markers using Sers Spectroscopy and Machine Learning Methods
11:20 – 11:40 am	Tea	
09:30 – 11:20 am	Technical Session 22	
	Venue: Hall 2 & 3	
Chairpersons	Prof. Geetu Gambhir, ANDC, University of Delhi	

	Prof. Manisha Verma, ANDC, University of Delhi	
09:30 – 10:00 am	KN-19 Online	Speaker: Prof. Thomas Wong, Illinois Institute of Technology, USA Title: Semiconductor Nanoparticles as a mediator for functional application of Terahertz Electromagnetic Fields
10:05 – 10:35 am	KN-20 Online	Speaker: Prof. Jianfeng Wang, City University of Hong Kong Title: Recognizing and matching crushed solid particles using X-ray computed microtomography
10:40 – 11:05 am	IL-31 Online	Speaker: Dr. Badri Parshad, Massachusetts General Hospital - Harvard Medical School, USA Title: Heteromultivalent architectures for influenza virus inhibition
11:10 – 11:20 am	OL-25 Online	Speaker: Dr. Amardeep Awasthi, Northwestern University, USA Title: Selective Neuronal Nitric Oxide Synthase Inhibitors for Melanoma Treatment
11:20 – 11:40 am	Tea	
11:40 – 13:15 pm	Technical Session 23 Venue: Hall 4	
Chairpersons	Dr. Sudhir Chandna, Director, INMAS, DRDO, Delhi. Prof. R. K. Negi, Department of Zoology, University of Delhi, Delhi	
11:40 – 12:15 pm	KN-21	Speaker: Prof. Satya Prakash, McGill University, Canada Title: From RNA To Nanomedicine: Emerging Strategies for Cancer Therapy
12:20 – 12:45 pm	IL-32	Speaker: Dr. Sangram Keshari Samal, ICMR, Delhi, India Title: AI-Powered Digital Twins Technology in Designing Next-Generation Biomaterials for Personalized Regenerative Medicine
12:50 – 13:00 pm	OL-26	Speaker: Dr. Radha Shree Bhattacharjee, GLA University, Mathura Title: Development and characterisation of chitosan cyclodextrin microparticles Neifedipine
13:05 – 13:15 pm	OL-27	Speaker: Mr. Timur Terentev, ITAE RAS, Moscow, Russia Title: A Manner for Bacteria Classification based on SERS and Machine Learning Methods
13:15 – 14:30 pm	Lunch & Poster Presentation PP4: (151-200)	
11:40 – 13:15 pm	Technical Session 24 Venue: Hall 5	
Chairpersons	Prof. Ashok Gupta, NAMS, New Delhi Prof Qiang Zhang, Changchun, Institute of Applied Chemistry, Changchun, China	
11:40 – 12:15 pm	KN-22	Speaker: Prof. Thomas J. Webster, Brown University, USA Title: Fighting Antibiotic Resistance: Eliminating Implant Infections in Humans without Antibiotics
12:20 – 12:45 pm	IL-33	Speaker: Prof. Avinash Sonawane, IIT Indore, India Title: Nanomaterials for the targeted delivery and stability of therapeutic agents
12:50 – 13:00 pm	OL-28	Speaker: Dr. Vandana Kumari, Parul Institute of Engineering and Technology, Vadodara Title: Bioactive terminalia arjuna-loaded pcl/k-carrageenan nanofibers for controlled drug delivery and wound healing
13:05 – 13:15 pm	OL-29	Speaker: Prof Suresh Verma, KIIT University, Bhubaneswar, India Title: In Vivo Biototoxicity of Green-Biofabricated Graphene Oxide-Microplastic Hybrid Mediated by Proximal Intrinsic Atomic Interaction
13:15 – 14:30 pm	Lunch & Poster Presentation PP4: (151-200)	
11:40 – 13:15 pm	Technical Session 25 Venue: Hall 6	
Chairpersons	Prof. Santanu Ghosh, IIT Delhi, New Delhi Dr. Rakeshwar Bandichhor, CSO, Arti Pharma Laboratories, Ltd., Mumbai	
11:40 – 12:15 pm	IL-34	Speaker: Prof. Seema Bhatnagar, Amity University, Noida Title: Folate Receptor-Targeted Smart Delivery of Curcumin for Selective Targeting of TNBC and Cancer Stem Cells
12:20 – 12:45 pm	IL-35	Speaker: Dr. VijayaKumar P.S., Kadamba Nanocare, Bengaluru Title: Integrating Green Nanotechnology and Ayurveda for Cancer Supportive Care: A Translational Framework
12:50 – 13:00 pm	OL-30	Speaker: Dr. Tejveer Singh, Hansraj College, University of Delhi

		Title: Green-Synthesized Berberis Aquifolium-Functionalized Iron Oxide Nanoparticles for Therapeutic Application in Hpv-Associated Cervical Cancer
13:05 – 13:15 pm	OL-31	Speaker: Dr. Sonali Ray, Department of Tea Science, University of North Bengal, Darjeeling Title: Nanoliposomal Delivery of Tea Bioactives across The Bbb
13:15 – 14:30 pm	Lunch & Poster Presentation PP4: (151-200)	
14:30 – 16:05 pm	Technical Session 26 Venue: Hall 4	
Chairpersons	Prof. Eun Ha Choi, Director, Kwangwoon University Prof. Thomas J. Webster, Brown University, USA	
14:30 – 15:05 pm	KN-23	Speaker: Prof. Kantesh Balani, Indian Institute of Technology, Kharagpur Title: Designing Next Generation Sustainable Antibacterial & Cytocompatible Biocomposites
15:10 – 15:35 pm	IL-36	Speaker: Dr Vadim Krylov, ZIOC RAS, Moscow, Russia Title: Antibodies to Fungal Polysaccharide antigens: New Horizons in Laboratory Diagnosis of Mycoses
15:40 – 16:05 pm	IL-37	Speaker: Prof Nidhi Chauhan, UPES Dehradun, India Title: Isolation and Assessment of fungi derived from wastewater for sustainable energy generation
16:10 – 16:20 pm	OL-32	Speaker: Dr. Koel Sinha, Amity University, Noida Title: Molecularly Imprinted Polymer-Modified Screen-Printed ZnO Nanorod Field-Effect Transistors for Serotonin Detection in Clinical Samples
16:05 – 16:30 pm	Tea	
14:30 – 15:55 pm	Technical Session 27 Venue: Hall 5	
Chairpersons	Prof. Digamber Behra; President NAMS, New Delhi Prof. Sylvain Martel, Polytechnique Montreal, L'Ile Bizard, CA	
14:30 – 15:05 pm	KN-24	Speaker: Prof. A. K. Dinda, Amrita Vishwa Vidyapeetham, Faridabad Title: Application of Nanotechnology in Vaccine Development
15:10 – 15:35 pm	IL-38	Speaker: Prof. M A Aziz, Aligarh Muslim University, Aligarh Title: Nanomedicine approach to restore the function of a novel tumour suppressor gene
15:40 – 15:40 pm	OL-33	Speaker: Dr. Awadhesh Kumar Verma, Lovely Professional University, Kapurthala Title: Computational Frontiers in Aptamer-Based Nanomedicine for Precision Therapeutics: A Comprehensive Review
15:45 - 15:55 pm	OL-34	Speaker: Pankaj, NIPER Ahmedabad, India Title: Conducting textile based electrochemical device: an innovative platform for early oral cancer detection
16:00 – 16:10 pm	OL-35	Speaker: Dr. Rakhi Thareja, St. Stephen College, University of Delhi, India Title: Molecular-level design of cobalt–nicotinic acid complexes:charge- and ligand-driven coordination toward biomedical and nanomedicine applications
16:10 – 16:30 pm	Tea	
14:30 – 16:05 pm	Technical Session 28 Venue: Hall 6	
Chairpersons	Prof. Sarman Singh, Former Director, AllMS, New Delhi Prof. D. T. Selvam, DRDO, Delhi	
14:30 – 15:05 pm	KN-25	Speaker: Prof. Santanu Ghosh, Indian Institute of Technology, New Delhi Title: Nano-Engineered Composites and Nano Hybrids for Highly Sensitive Label-Free Biomolecular Detection
15:10 – 15:35 pm	IL-39	Speaker: Prof. Suresh C. Sharma, Department of Applied Physics, Delhi Technological University, Delhi, India Title: Plasma-Assisted Semiconducting Carbon Nanostructures Field-Effect Transistors for Nano-biosensing Applications
15:35 – 15:45 pm	OL-36	Speaker: Prof. Manisha Tiwari, Dr. B.R. Ambedkar Center for Biomedical Research, Delhi, India Title: Fluorinated Isoniazid Derivatives for Improved Efficacy against Drug-Resistant Mycobacterium tuberculosis
15:50 – 16:00 pm	OL-37	Speaker: Dr. Neelottma Singh, SHUATS, Prayagraj



WORLD CONGRESS ON NANOMEDICINE 2026

27th - 29th September, 2026
Vigyan Bhawan, New Delhi, India



		Title: Nanohybrid Electrochemical Biosensor Based on Molecularly Imprinted Polymer and Bismuth-Doped Copper Ferrite for Point-of-Care CRP analysis
16:00 - 16:10 pm	OL-38	Speaker: Dr. Vijay Singh, MSBU Title: Computational Identification of Novel Bruton Tyrosine Kinase (BTK) Inhibitors for Relapsed/Refractory Chronic Lymphocytic Leukemia
16:05 – 16:30 pm	Tea	
16:30 – 17:30 pm	Valedictory Function Venue: Hall 6	