



International Conference on  
Recent Advances in Biomedical Sciences and Theranostics  
RABST - 2026



### Conference Schedule

#### Day 1 — MANIT Auditorium

**Inauguration:** 10–10:30 AM

**High Tea:** 10:30–11 AM

Time	Speaker	Title
11 AM–11:45 AM	Dr. Akansha Chaturvedi, BRIC–National Centre for Cell Sciences, Pune	Keynote: Utilising B Cell Diversity to Generate Human Monoclonal Antibodies Against Rabies Virus for Post-Exposure Prophylaxis
11:45 AM–12:25 PM	Dr. Jiban Jyoti Panda, Institute of Nanoscience and Technology, Mohali	Small Molecular Nanomedicines Targeting Neural and Ocular Disorders

#### Technical Session 1: Environment and Health

**Chair:** Dr. Jiban Jyoti Panda

Time	Presenter	Title
12:25 PM–12:35 PM	Khushi Thakur, Azim Premji University, Bhopal Campus	Metagenomic Profiling of Microbial Diversity and Antimicrobial Resistance in Waterbodies of Bhopal, Madhya Pradesh
12:35 PM –12:55 PM	Pratibha Sharma, SAGE University, Indore	Study of Lycopene and $\beta$ -Carotene Content in Solanum lycopersicum Grown in Sewage-Contaminated and Coalfield Soils under Remediation

**Lunch Break: 1:20–2:20 PM**

### Invited Talks

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Time	Speaker	Title
2:20 PM –2:50 PM	Dr. Sharda P. Awasthi, Metropolitan University, Osaka, Japan	Dietary Phytochemicals to Fight Infectious Diseases: From Cholera Toxin Inhibition to SARS-CoV-2 Suppression
2:50 PM –3:25 PM	Dr. Nikhil R. Gandasi, Indian Institute of Science, Bangalore	Subcellular View of Islets to Understand Type-2 Diabetes
3:25 PM – 4 PM	Prof. Andrés D. Klein, Instituto de Ciencias e Innovación en Medicina (ICIM), Chile	Genomic Modifiers of Neurological Resilience for Personalised Therapeutics in Lysosomal Storage Disorders and Parkinson's Disease

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### Technical Session 2: Disease Mechanisms and Therapeutic Development

**Chair: Dr. Sharda P. Awasthi**

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Time	Presenter	Title
4 PM–4:20 PM	Aniruddha Mukherjee, Bar-Ilan University, Israel	Identification of Possible SARS-CoV-2 Main Protease Inhibitors: In Silico Molecular Docking and Dynamic Simulation Studies
4:20 PM–4:30 PM	Kaneez Fatima, Azim Premji University, Bhopal Campus	Green Synthesis of Silver Nanoparticles Using Mangifera indica Leaf Extract
4:30 PM–4:40 PM	Kratika Bhadoria, Amity University, Gwalior	Protein–Protein Interactions in the Molecular Pathogenesis of Human Neurodegenerative Disorders

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## Day 2 — Azim Premji University, Bhopal Campus

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<b>Time</b>	<b>Speaker</b>	<b>Title</b>
9:30–10:15 AM	Dr. Yogesh Shouche, SKAN Research Trust, Bengaluru	Keynote Address
10:15–10:55 AM	Dr. Sorab N. Dalal, Tata Memorial Centre – ACTREC	Therapy Resistance and Tumour Progression in Colorectal Cancer
<b>10:55–11:20 AM</b>	—	<b>High Tea</b>
11:20–11:55 AM	Dr. Srimonta Gayen, Indian Institute of Science, Bangalore	Embryogenesis, Epigenetics, and Environment: Climate Change and its Impact on Fetal Development
11:55 AM–12:35 PM	Dr. Vineet Kumar Sharma, IISER Bhopal	Functional Insights into the Indian Human Microbiomes Revealed Through Multiomics Approaches

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### Technical Session 1: Disease Biology

Chair: Dr. Ruchika Bhat

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<b>Time</b>	<b>Speaker</b>	<b>Title</b>
12:35 PM–12:55 PM	Dr. Nivedita Pandey, JNCASR, Bengaluru	Functional characterisation of the mitochondrial pyruvate carrier (MPC) reveals metabolic flexibility in the rodent malaria parasite <i>Plasmodium berghei</i>
12:55 PM – 1:05 PM	Sunanda Samanta, IIT Indore	Mapping the Conformational Landscape of Syk: Mutation-Driven Modulation of Dynamics and Therapeutic Targeting.
1:05 PM–1:15 PM	Mahendra Pratap	Isolation and Characterisation of

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	Singh, Azim Premji University, Bhopal Campus	Culturable Gut Bacteria Associated with Parkinson's Disease.
<b>1:15 PM-2:15 PM</b>	<b>Lunch break</b>	
2:15 PM-2:40 PM	Dr. Ruchika Bhat, University of Arizona, Tucson, USA	Identifying biosignatures in severe COVID patients using single cell RNA sequencing
2:40 PM-3:05 PM	Dr. Debojit Sarma, NIREH Bhopal	Environmental Endocrine disruptors and gut microbiome interactions in type 2 diabetes

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## Technical Session 2: Translational Molecular Strategies for Health

Chair: Dr. Sharda P. Awasti

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Time	Speaker	Title
3:10 PM – 3:30 PM	Dr Shikha Tiwari, AIIMS Bhopal	Association of microRNA polymorphisms with the risk of Oral Squamous Cell Carcinoma in a Central India Population: a case- control study.
3:30 PM-3:50 PM	Dr Parik Kakani, IISER Bhopal	Epigenomic Rewiring Under Hypoxia: CTCF- Mediated Chromatin Architecture Controls EMT- Associated Splicing in Breast Cancer
3:50 PM-4:10 PM	Dr MK Tripathi, ICAR- Central Institute of Agricultural Engineering Nabi Bagh, Bhopal	Advanced Processing Strategies for Millet- Based Foods: Enhancing Nutritional Quality, Functional Properties and Health Benefits

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## Technical Session 3: Innovations in Molecular Therapeutics and Diagnostics

Chair: Dr. MK Tripathi

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Time	Speaker	Title
4:10 PM-4:20 PM	Abhishek Sehrawat, AIIMS Bhopal	Beyond Diagnosis: Radiology as the Driving Force behind Precision Theranostics

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4:20 PM-4:30 PM	Hritambhra Deshmukh, AIIMS Bhopal	Redefining herbal therapeutics in colorectal cancer: multi-target immune modulation validated in-silico and in- vitro.
4:30 PM-4:40 PM	Tilleshwer Sahare, IIT Indore	Urease-FITC based fluorescent sensor coupled with smartphone imaging for point of care urinary urea monitoring.
4:40 PM-4:50 PM	Dr. Deepali Sahu, Barkatullah University, Bhopal	Hepatoprotective effect of Trigonella foenum-graecum (Linn.) hydroalcoholic extract on malathion induced hepatotoxicity in albino rat.
4:50 PM-5 PM	Dr. Jayanti Mehra, MCA, LNCT, Bhopal	An Intelligent AI-IoT Architecture for Predictive and Personalised Healthcare Services

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Valedictory Session: 5 PM–5:20 PM

Tea: 5:20 PM–5:45 PM