

PROGRAM



SBC(I)2026

95th ANNUAL MEETING OF SOCIETY OF BIOLOGICAL CHEMISTS (INDIA)

On

**“Advancing Biochemistry and Translational Research
To Address Evolving Challenges in Healthcare”**

October 28–30, 2026



DAY 1, Oct 28
Session 1
Venue: Main auditorium

8.30 am	Registration
9.30 am	Welcome by Director, CSIR-CDRI
9.35 am	Presidential Address
9.55 am	Plenary Lecture: Raghavan Varadarajan Design of efficacious vaccines against respiratory viruses
10.40 am	Tea
11.00 am	Dr. Kamala Sohonie Memorial Lecture Award: Sandhya S. Visweswariah Fundamental 3Gs: Gut reactions, gut instincts and cGMP

11.30 am	Prof. I. S. Bhatia Award Lecture: Kaustuv Sanyal Emergence of anti-fungal drug resistance: Novel strategies adopted by <i>Candida auris</i>
12.00 noon	Sanjay Singh (ImmunoScript Life Science)** The mRNA vaccine revolution: Core principles, safety, and regulatory pathways of platform technologies
12.30 pm	Lunch
Session 2A Cancer Biology Venue: Main auditorium Chairpersons: Dipankar Nandi & Saman Habib	
01.30 pm	Shilpak Chatterjee, CSIR-II CB SIP-S1PR1 axis drives CD8 ⁺ T Cell dysfunction in the tumor microenvironment

01.55 pm	Sorab Dalal , ACTREC Iron homeostasis, tumour progression, and therapy resistance
02.20 pm	Shaida Andrabi , Kashmir Univ FAK and PCTAIRE promote resistance against anti-cancer agents in ovarian cancer
02.45 pm	Dipak Datta , CSIR-CDRI CXCR4 in cancer metastasis: Beyond GCPR signaling
Session 2B Applied Structural Biology & Drug Discovery Venue: Hall 3 Chairpersons: Vivek Natarajan & R. Ravishankar	
01.30 pm	Manidipa Banerjee , IIT-Delhi Therapeutic and preventive strategies against arboviruses

01.55 pm	Deepti Jain , RCB From inhibition to initiation: Regulation of late flagellar gene expression in <i>Pseudomonas aeruginosa</i>
02.20 pm	Saikrishnan Kayarat , IISER-Pune Mode of substrate binding by the SARS-COV-2 NIRAN domain and the mechanism of modulation of its activities during RNA capping
02.45 pm	Mahavir Singh , IISc Mechanisms of RNP assembly and toxin control in Type III toxin–antitoxin systems

Session 2C

Metabolism and Lifestyle Diseases

Venue: Hall 2

Chairpersons: Madhu Dikshit & Ravi Manjithaya

01.30 pm	Nikhil Gandasi , IISc Understanding targets at single-islet-cells for anti-diabetic treatment
01.55 pm	Naresh C Bal , KIIT Targeting skeletal muscle to treat metabolic diseases: An exercise-mimetics approach
02.20 pm	Partha Chakrabarti , JCMLRI-Kolkata Complement Factor D/Adipsin is a Novel Hepatic Glucose Effector
02.45 pm	Rohit Anthony Sinha , SGPGI Hormonal therapy of MASH: An emerging hepato-endocrine disorder
03:10 pm	Tea Break

Session 3A
Immunobiology
Venue: Main auditorium

Chairpersons: Manidipa Banerjee & Monika Sachdev

03.30 pm	Nimesh Gupta , BRIC-NII The T cell blueprint of protective immunity : Lessons from human immunology
03.55 pm	Imroze Khan , Ashoka University Mutation load, pathogen growth and virulence dynamics drive immune adaptations against coinfections
04.20 pm	Karthika Rajeeve , BRIC-RGCB Pathogen associated neutrophils shapes an immune-silent milieu
04.45 pm	Tripti Shrivastava , BRIC-THSTI Translating virus biology from structural transition to transient conformational changes: key to vaccine design

Session 3B
Bone and Reproductive Biology
Venue: Hall 2
Chairpersons: Sorab Dalal & Atul Goel

03.30 pm	Rupesh Srivastava , AllMS-New Delhi Delineating the autoimmune nature of inflammatory bone loss in post-menopausal osteoporosis
03.55 pm	Aritra Chatterjee , IIT-Guwahati Multiscale structure–property relationships between knee joint function and tissue mechanics
04.20 pm	Geetanjali Sachdeva , ICMR-NIRRH, Mumbai Novel insights into the pathophysiology of endometriosis
04.45 pm	Ashish K. Tripathi , IIT-Bhilai Beyond hematological benefits: Impact of hydroxyurea on bone health in Sickle Cell Disease

Session 3C
Biochemistry of Rare Diseases
Venue: Hall 3

Chairpersons: Deepti Jain & Akhilesh Tamrakar

03.30 pm	Vivek Natarajan , CSIR-IGIB Epigenetics of cellular identity: How melanocyte cell fates are specified, maintained, and lost
03.55 pm	Ravi Manjithaya , JNCASR How to build and move autophagosomes
04.20 pm	Sandeep Eswarapa , IISc Forbidden translation: Protein synthesis from the 'untranslated' regions of mammalian mRNAs
04.45 pm	Anshika Srivastava , SGPGI PRUNE1 splice variant mediated AURKA upregulation dysregulates RNA metabolism as a novel pathogenic mechanism in NMIHBA

05:10 pm	Poster Session
05:15 pm	EC Meeting
07:15 pm	Cultural Program
08:15 pm Onwards	Dinner

DAY 2, Oct 29

Session 4

Venue: Main auditorium

09:30 am	Sreenivasaya Memorial Award: Sunil Laxman The cellular metabolic economy
10:00 am	Prof. A. N. Bhaduri Memorial Lecture Award: Satish Mishra Molecular determinants of <i>Plasmodium</i> development and transmission
10.30 am	Tech Talk: Subir Biswas , Cytiva Deciphering Host-Parasite Molecular Interactions Using Label-Free SPR and Advanced Protein Analytics
10.45 am	Tea Break

Session 5A
The Microbiome and its Interactions
Venue: Hall 2

Chairpersons: Radha Rangarajan & Partha Chakraborti

11.00 am	Souvik Mukherjee , NIBMG Kalyani Metagenome Wide Association Studies (MWAS) on vaginal and oral microbiome in preterm birth and infant gut microbiome in growth failure: Precision microbiomics in developing the BHARAT webtool for rapid analysis of microbial WGS data
11.25 am	Amit Lahiri , CSIR-CDRI Mitochondrial citrate exporter regulates dysbiosis and stress response outcome in Ulcerative colitis
11.50 pm	Vivek Rao , CSIR-IGIB Metabolism as an immune strategy in fighting TB

12.15 pm	Prasenjit Bhaumik , IIT-B Molecular insights of plasmepsins for understanding their inactivation mechanism and developing antimalarial inhibitors
12.40 pm	Prabhakar Tiwari , AIIMS-New Delhi Gut microbiome and host metabolism: Metagenomic and metabolomic findings in Alzheimer's disease
Session 5B Fungal and Parasite Biochemistry Venue: Hall 3 Chairpersons: Krishnapal Karmodiya & Niti Kumar	
11.00 am	Anindita Ukil , University of Calcutta Silent sabotage: How <i>Leishmania</i> reprograms host immune metabolism for its sustained survival

11.25 am	Nishith Gupta , BITS-Hyd Optogenetic illumination of cyclic nucleotides signaling in the intracellular pathogen <i>Toxoplasma gondii</i>
11.50 pm	Sneha Sudha Komath , JNU The catalytic subunit of GPI-N-acetylglucosaminyltransferase which initiates GPI biosynthesis in <i>Candida albicans</i> also transcriptionally regulates the enzyme
12.15 pm	Srimonti Sarkar , Bose Instt Trafficking Without a Golgi: Presence of a Divergent TRAPP Complex in <i>Giardia lamblia</i>

Session 5C

Cell and Developmental Biology

Venue: Main auditorium

Chairpersons: Nikhil Gandasi & JV Pratap

11.00 am	Saravanan Matheswaran, IIT-K SWR1 chromatin remodeling regulates development, effector expression, and virulence in <i>Ustilago maydis</i>
11.25 am	Devanjan Sinha, BHU Beyond Complex I: Mitochondrial electron flux plasticity in tumour cells
11.50 pm	Parul Mishra, UoHyd Rewriting protein fate: The hidden regulatory language of Ubiquitin
12.15 pm	Sujit Kumar Bhutia, NIT Rourkela Distinct molecular signaling pathways governing mitochondrial fission and their roles in mitochondrial biogenesis and mitophagy

12.40 pm	Abdur Rahaman, NISER-Bhubaneswar A novel endocytic route delivers cardiolipin from plasma membrane to nuclear envelope: A role in nuclear expansion
01.05 pm:	Lunch
Session 6A Plant Biology and Defences 1 Venue: Hall 2 Chairpersons: Satish Mishra & Vidhu Sane	
02.00 pm	Gopalji Jha, BRIC-NIPGR Molecular insights into fungal-eating properties of Burkholderia bacteria and utilizing them for the mitigation of fungal infections
02.25 pm	Jitendra Thakur, ICGEB A molecular switch for survival: How mediator subunit MED14 couples cell-cycle control to DNA damage response

02.50 pm	Samir Sawant , CSIR-NBRI Epigenetic landscape regulating fibre development in cotton
03.15 pm	Madhumita Barooah , Assam Agricultural University , Jorhat Retention versus exclusion: Convergent and divergent mechanisms of Fe and Al toxicity tolerance in Assam's rice landraces
Session 6B Neurobiology and Aging Venue: Main auditorium Chairpersons: Naresh Bal & PN Yadav	
02.00 pm	Anirban Basu , BRIC-NBRC Neuroimmune circuits in brain health and disease:From neurotropic viral Infections to gut brain crosstalk

02.25 pm	Geetanjali Chawla , Shiv Nadar Univ (IoE) MicroRNA pathways in aging and dietary restriction
02.50 pm	Sumantra Chattarji , CHINTA, TCG CREST Tiptoeing into translational neuroscience in India: a small example
03.15 pm	Nihar Ranjan Jana , IIT-Khrgh Repurposing Ube3a imprinting biology for a neurodegenerative target

Session 6C

Clinical Biochemistry, Biomaterials and Tissue Engineering

Venue: Hall 3

Chairpersons: Siddharth Jhunjunwala & Manish Chaurasia

02.00 pm	Biman B. Mandal , IIT-Guwahati Bioengineered in vitro liver models for high throughput drug screening applications
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02.25 pm	Indranil Bannerji , IIT-Jodhpur NIR-responsive multifunctional phototherapeutics
02.50 pm	V Padmanaban , CMC Vellore ** Proteogenomic analysis identifies type 2 diabetes-influenced plasma proteins causally associated with microvascular and macrovascular complications of diabetes mellitus
03.15 pm	Satyaprakash Pandey , TIGS, Bangalore Cervical cancer screening using HPV genotyping panel
03:40 pm	Tea Break

Session 7A
Flash Talks
(Infectious diseases)
Venue: Hall 2
Coordinator: Niti Kumar

03.55–05.20 pm

Time: 7 (5+2) min each

Presenters:

**Arunima Biswas, Priyanka C. Yadav, Amanullah Sayeed,
Krishan Kumar, Sainath Polepalli, Gurvinder Kaur,
Kanchan Bhardwaj, Simmi Pradhan, Deneshraj Srinivasan,
Tashi Palmo, Manisha Ghosh**

Session 7B
Flash Talks
(Non-communicable diseases)
Venue: Main auditorium
Coordinator: Dipak Datta

03.55-05.20 pm

Time: 7 (5+2) min each

Presenters:

**Arya Devi K P, Shashi K. Gupta, Bibhukalyan Mohapatra,
Udita Jindal, Nitish Kumar Bhol, Priya Saha, Dipanjana Ghosh,
Debasree Dutta, Syed Musthapa Meeran, Shagun,
Bhupesh Mehta**

Session 7C
Flash Talks
(Structural, computational and molecular biology)
Venue: Hall 3
Coordinator: Tejender Thakur

03.55–05.20 pm

Time: 7 (5+2) min each

Presenters:

**Imran Ansari, Yogananda S M, Alok Kumar Mishra,
Sandipan Mukherjee, Samriddhi Thakur,
Shubham Krushna Talware, Shalini Singh, Sudarshan Gadadhar,
Abhijeet Mishra, Abdul Basit Khan, Atul Kumar**

05.25 pm	Poster Session
07.15 pm	SBC General Body Meeting
08.00 pm	Dinner

DAY 3, Oct 30
Session 8
Venue : Main auditorium

09:30 am	Plenary Lecture : Soniya Nityanand
10.10 am	Tech Talk: HiMedia
10.20 am	Tech talk: Leica
10.30 am	Tech talk: Nucleome Informatics
10.40 am	Tea Break

Session 9A
Biotherapeutics
Venue: Hall 2
Chairpersons: Dipak Datta & PK Singh

11.00 am	Siddharth Jhunjunwala , IISc Neutrophils drive immunopathology in chronic inflammatory states
11.25 am	Ashis Kumar Mukherjee , IASST-Guwahati Snake venom Nerve Growth Factor-derived peptides impede the progression of oxidative stress-induced neurodegenerative diseases
11.50 am	Bhavana Muralidharan , inStem, Bangalore Chromatinopathies, ciliopathies, and brain malformations: From genetic mechanisms to disease models
12.15 pm	Suktilang Majaw , NEHU From natural products to molecular targets: Linking Metabolic regulation to cancer cell survival

12.40 pm	Durgesh Kumar , Immunoscript Life Sciences Self-Amplifying RNA Vaccines: Harnessing Durable and Multifunctional T-Cell Immunity for Next-Generation Therapeutics
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Session 9B
Structural Biochemistry
Venue: Hall 3
Chairpersons: Aravind Penmatsa & Sohail Akhtar

11.00 am	Tanweer Hussain , IISc Unique strategy and structural mimicry by viral mRNA help hijack host ribosomes
11.25 am	Prem Kaushal , BRIC-RCB Cryo-EM studies of ribosome assembly in mycobacteria
11.50 am	Mahipal Ganji , IISc Biochemistry in singulo: A single-molecule view of bacterial genome organization

12.15 pm	Sujata Sharma, AllMS–New Delhi From mother's milk to molecular medicine: Lactoferrin from structure to patient care
Session 9C Viruses and Phage Therapy Venue: Hall 3 Chairpersons: Jayanta Sarkar & Meetali Singh	
11.00 am	Vikas Jain, Krea University Antiphage defense in mycobacteria through a phage-derived protein domain
11.25 am	Rajesh Ringe, NIPER–Mohali Escape from neutralization: The role of differential sugarcoating of SARS-CoV-2 Spike protein
11.50 pm	Syamala Maitreyi Rajala, JNU Recombinant measles virus with a pro-apoptotic gene: a potential therapeutic approach to target breast cancer

12.15 pm	Sutharsan Govindarajan , SRM University , Guntur From mechanism to medicine: Translating Jumbo Phage biology into clinical potential against drug resistant pathogens
12:45 pm	Poster Session and Lunch
Session 10A Parasite Biology Venue: Hall 2 Chairpersons: Tripti Shrivastava & Arun K. Haldar	
02:15 pm	Meetali Singh , IISc Small RNA-mediated epigenetic regulation of pathogenesis and host-parasite interaction
02:40 pm	Bhudhaditya Mukherjee , IIT-Khrgrpr From dermal to visceral adaptation: genome plasticity drives GP63 paralogue specialization in <i>Leishmania</i>

03:05 pm	Krishnapal Karmodiya , IISER-Pune Non-coding RNAs in regulating gene expression and chromatin dynamics in <i>P. falciparum</i>
03:30 pm	Amit Prasad , IIT-Mandi A fight for eradication of neurocysticercosis against all the odds: Immunology, inflammation, and epileptogenesis of <i>Taenia solium</i>
Session 10B RNA Biology in the Origin and Evolution of Life Venue: Hall 3 Chairpersons: Hamim Zafar & Arunava Dasgupta	
02:15 pm	Shovamayee Maharana , IISc Role of RNA metabolism in controlling RNA-RBP condensate dynamics in ageing and inflammation

02:40 pm	Sudha Rajamani , IISER-Pune The emergence and evolution of biomolecules on the early Earth: Implication for life's origin
03:05 pm	Soma Banerjee , IPGMER-Kolkata The circular RNA-Stemness circuit: A hidden driver of Sorafenib resistance in hepatocellular carcinoma
03:30 pm	Amanjot Singh , MAHE RNA-dependent regulation of ribonucleoprotein complex dynamics by an E3 Ligase

Session 10C

Bacterial Infections and AMR

Venue: Main auditorium

Chairpersons: Suman K. Dhar & YK Manju

02:15 pm	Vinay Nandicoori , CSIR-CCMB Tuberculosis: From molecular mechanisms to genomic surveillance
02:40 pm	Raju Mukherjee , IISER-Tirupati Induced innate immunity in <i>Mycobacterium</i> against mycophages
03:05 pm	Ashwani Kumar , CSIR-IMTech Mycobacterial Biofilms; Another armor is rise of a superbug
03:30 pm	Tushar Kanti Beuria , ILS-Bhubaneshwar Inhibition of efflux pumps: Making resistant bacteria susceptible to existing antibiotics
03:55 pm	Tea Break

Session 11A
Towards Precision Medicine/Genomics and Metagenomics
Venue: Hall 3
Chairpersons: Sudha Rajamani & Shakil Ahmad

04:10 pm	Sauvik Maiti , CSIR-IGIB Indigenous CRISPR-Cas9 Tools: Advancing Gene Therapy Through Precision
04:35 pm	Vinod Scaria , Karkinos Healthcare Personal genomes for precision medicine
05:00 pm	Shankar Manoharan , IIT-Jodhpur Genetic and physiological adaptations in <i>Klebsiella pneumoniae</i> customized for the bloodstream
05:25 pm	Ranjana Arya , JNU Exploring pathomechanisms and potential therapeutic leads for rare diseases

Session 11B
AI-ML in Biochemistry and Drug Discovery
Venue: Hall 2

Chairpersons: Tanweer Hussain & MI Siddiqi

04:10 pm	Biplab Bose , IIT-Guwahati Beyond adhesion: Active cell sorting
04:35 pm	Hamim Zafar , IIT-K Computational analysis of single-cell and spatial omics datasets for elucidating cancer heterogeneity
05:00 pm	MS Madhusudhan , IISER-Pune Reading Genomes with DNA motifs
05:25 pm	Kasturi Mitra , Ashoka Univ Quantitative elucidation of mitochondrial structure-function heterogeneity to decipher specification of the potent mitochondria primed neoplastic stem cells and their therapeutic vulnerabilities

Session 11C
Plant Biology and Defences 2
Venue: Main auditorium

Chairpersons: Gopalji Jha & Samir Sawant

04:10 pm	PK Singh , CSIR-NBRI Engineering of a Bt protein for the development of pink bollworm-resistant transgenic cotton
04:35 pm	Hitendra Kumar Patel , CSIR-CCMB Durable resistance to bacterial blight disease and development of super rice varieties
05:00 pm	Sridev Mohapatra , BITS-Hyd Molecular mechanisms in plant-rhizobacterial interaction for abiotic stress tolerance
05:25 pm	T. Narender , CSIR-CDRI
05.50 pm	Student Awards and Concluding Session
06.20 pm	Tea

Cultural Event

Production: **Dastak**

Dance Drama:

Haman Hai Ishq Mastana

A Dance-drama based on Sant Kabir's life, poetry and philosophy

October 28, 2026 | 07:15 PM



