

SCHEDULE: ISCB 2025

Pre-Symposium Workshop

Date	Time		
February 03, 2025	09.00 am – 05.00 pm	Workshop-I: Culturing and Identification of Ciliates Workshop-II: Bioinformatic Tools for Studying Ciliates	To be conducted jointly by ISoCB, ZSI, INSCR and PhiXgen

DAY 1 (Room A)

Date	Time		
February 06, 2025	08.00 am – 09.30 am	Registration Interaction amongst Scientists and Students	
		Chairpersons: Dr Alan Warren, Prof Yuri Mazei Co-Chairperson: Dr Rimpay Kaur Chowhan	
	09.30 am – 10.10 am	Plenary Lecture I Prof Joel Dacks (University of Alberta, Canada): Evolutionary Cell Biology of the Endomembrane System: How Ciliate Biology Frames Pan-eukaryotic Phenomena?	
	10.10 am – 10.50 am	Plenary Lecture II Prof Elena Sabaneyeva (St Petersburg State University, Russia): The Ciliate <i>Paramecium bursaria</i> and its Inhabitants	
	10.50 am – 11.10 am	Tea & Photo Session	
	11.10 am – 11.40 am	Poster Session	
		Chairpersons: Prof Joel Dacks, Prof Elena Sabaneyeva Co-Chairperson: Dr Ritu Khosla	
	11.40 am – 12.20 pm	Plenary Lecture III	

	Prof Yuri Mazei (Lomonosov Moscow State University (Russia) and Shenzhen MSU-BIT University, China): Community Ecology of Marine Benthic Ciliates: Integrating Taxonomic, Metabarcoding and Functional Traits Approaches
12.20 pm – 01.00 pm	Plenary Lecture IV Dr Alan Warren (Natural History Museum, London, UK): Cell shape-shifting and ultrafast contraction in ciliates
01.00 pm – 01.40 pm	Plenary Lecture V Prof Rup Lal (ANDC, University of Delhi, Delhi)
01.40 pm – 02.30 pm	Lunch
Symposium Lectures	
	Chairpersons: Prof Ravi Toteja, Dr Komal Kamra Co-Chairperson: Dr Pragati Malik
02.30 pm – 03.00 pm	Prof Seema Makhija (ANDC, University of Delhi, India): Molecular and morphological descriptions of three species belonging to class Colpodea: A journey from Classical taxonomy to macrogenome analysis
03.00 pm – 03.30 pm	Dr Abdur Rahaman (National Institute of Science Education and Research (NISER)-Bhubaneswar): Cellular Trafficking and Organellar Homeostasis
03.30 pm – 04.00 pm	Prof Atul K Johri (Jawaharlal Nehru University, New Delhi, India): Vaccine Development from Jenner to Genomics
04.00 pm – 04.20 pm	Tea
	Chairpersons: Dr Abdur Rahaman, Prof Shan Gao Co-Chairperson: Dr Sushma Bharadwaj
04.20 pm – 04.50 pm	Poster Session
	Dr Santosh Kumar (Zoological Survey of India, Kolkata, India): Curiosity Driven Frugal science with Ciliates
04.50 pm – 05.20 pm	Prof Alexey Potekhin (University of Innsbruck, Austria): Bacterial Killer Symbionts of <i>Paramecium</i>: Diversity, Ecology, Genomics
05.20 pm – 05.50 pm	Prof Bettina Sonntag (University of Innsbruck, Austria): Ciliates in Science Communication

	06.00 pm – 07.00 pm	Cultural Program
	07.00 pm onwards	Dinner

DAY 1 (Room B)

Date	Time	
February 06, 2025		Invited Talks by Faculty
		Chairpersons: Prof Charu Khosla Gupta, Prof Pooja Bhagat Co-Chairperson: Dr Aparna Sharma
	02.30 pm – 02.40 pm	Prof Soma Mondal Ghorai (Hindu College, University of Delhi, India): Anti-staphylococcal and anti-biofilm activity analysis of chimeric endolysins: An in-vitro, ex-vivo and in-vivo study
	02.40 pm – 02.50 pm	Prof Urmi Bajpai (Acharya Narendra Dev College, University of Delhi, India): The Rise of Superbugs: Can Bacteriophages Offer a Line of Defense?
	02.50 pm – 03.00 pm	Dr Jyoti Taneja (Daulat Ram College, University of Delhi, India): Identification and characterization of Potential Vaccine Candidate using hypothetical proteins from <i>Mycoplasma genitalium</i> : A Reverse Vaccinology Based Approach
	03.00 pm – 03.10 pm	Dr Raunak Dhanker (GD Goenka University, Gurugram, India): Importance of Ciliates in Zooplankton Diet
	03.10 pm – 03.20 pm	Prof Amit Garg (Acharya Narendra Dev College, University of Delhi, India):
	03.20 pm – 03.30 pm	Prof Sarita Kumar (Acharya Narendra Dev College, University of Delhi, India):
	03.30 pm – 03.40 pm	Dr Arpita Sharma (GD Goenka University, Gurugram, India): Harnessing Genetic Engineering for Enhancing Abiotic Stress Tolerance: A Sustainable Pathway for Future Agriculture
	03.40 pm – 03.50 pm	Dr Geetika Kalra (Acharya Narendra Dev College, University of Delhi, India): Impact of Exogenous Application of Antioxidants on ROS Signaling in Germinating Seeds of <i>Solanum lycopersicum</i> L.
	03.50 pm – 04.00 pm	Dr Manoj Kumar Singh (University of Allahabad, Prayagraj, India): Exploring the potential of endophytic bacteria isolated from dragon fruit plant
	04.00 pm – 04.20 pm	Tea

	04.20 pm – 04.50 pm	Poster Session
	06.00 pm – 07.00 pm	Cultural Program
	07.00 pm onwards	Dinner

DAY 2 (Room A)

Date	Time	
		Chairpersons: Prof Seema Makhija, Dr Archana Pandey Co-Chairperson: Dr Deepshikha
February 07, 2025	08.50 am – 09.30 am	Plenary Lecture VI Prof Gaytha Langlois (Bryant University, USA): Video storytelling – Tracking microbial communities on coral reefs
	09.30 am – 10.10 am	Plenary Lecture VII Prof Weibo Song (Ocean University of China, China): Diversity in Oral Structure and Morphology of Peritrichous Ciliates: New Findings Mainly Based on the Fauna Investigation in China
	Symposium Lectures	
		Chairpersons: Prof Weibo Song, Dr Komal Kamra Co-Chairperson: Dr Kavita Mittal
	10.10 am – 10.40 am	Prof Shan Gao (Ocean University of China, China): Identification and Characterization of the <i>De Novo</i> Methyltransferases for Eukaryotic N ⁶ -Methyladenine (6ma)
	10.40 am – 11.10 am	Prof Ying Yan (Ocean University of China, China): Role of Mob Proteins in Polarity and Cytokinesis Regulation in <i>Paramecium tetraurelia</i>
	11.10 am – 11.30 am	Tea
	11.30 am – 12.00 noon	Poster Session
	Young Scientist Presentations	

	Chairpersons: Dr Komal Kamra, Prof Ying Yan Co-Chairperson: Dr Sunita Jetly	
12.00 noon – 12.15 pm	Dr Jeeva S Abrham (Columbia University, USA): Ciliate taxonomy and systematics	
12.15 pm – 12.30 pm	Dr Anjusha (National Centre for Coastal Research, MOES)	
12.30 pm – 12.45 pm	Dr Harpreet Kaur (University of Alberta, Canada): Comparative and Phylogenetic Analyses of SNAREs across the Ciliate Diversity	
12.45 pm – 01.00 pm	Dr Simran Bhullar (Ramalingaswami Re-Entry Fellow (RLS), Department of Genetics, University of Delhi South Campus): <i>Paramecium tetraurelia</i> : Lessons learnt	
01.00 pm – 01.15 pm	Dr S Sripoorna (Ohio State University, USA): Unveiling the complexity of rumen ciliates: Insights into diversity and lysosomal peptidase profile	
01.15 pm – 01.30 pm	Dr Ilmas Naqvi (Zakir Husain Delhi College, University of Delhi, India): Discovering a new species of the genus <i>Hemiurosomoida</i> from a fresh water body, Delhi, India	
01.30 pm – 02.20 pm	Lunch [GBM of ISoCB for members at 01.30 pm (committee room) followed by lunch]	
Symposium Lectures		
	Chairpersons: Dr Utkarsh Sood, Dr Princy Hira Co-Chairperson: Dr Rashmi Sharma	
02.20 pm – 02.50 pm	Prof Ravi Toteja (ANDC, University of Delhi, India): Ciliates and Human Health	
02.50 pm – 03.20 pm	Dr Komal Kamra (ANDC, University of Delhi, India): Mining Ciliates for Science and Fun	
03.20 pm – 03.50 pm	Dr Jasmine Purushothaman (ZSI, Kolkata, India): Protist preservation paradigms: The taxonomic importance, collection strategies and curatorial care by Zoological Survey of India	
03.50 pm – 04.20 pm	Poster Session	Dr Valentina Serra (University of Pisa, Italy): One mitogenome to rule them all: how mitochondrial genomes help in disentangling the phylogeny of Ciliophora
04.20 pm – 05.00 pm	Valedictory: Presentation of Summary, Dr Alan Warren Quiz Using Cut Outs from the Presentations Open to Students, Prize Distribution to Winners	

	05.00 pm	High Tea & Photo Session

DAY 2 (Room B)

Date	Time	
February 07, 2025		Invited Talks by Faculty
		Chairpersons: Prof Urmi Bajpai, Prof Geetu Gambhir Co-Chairpersons: Dr Rimpay Kaur Chowhan, Dr Aparna Sharma
	10.10 am – 10.20 am	Dr Khangembam Cherita Devi (University of Allahabad, Prayagraj, India): <i>Nitrospira</i>: Nature's One-Stop Shop for Nitrification
	10.20 am – 10.30 am	Prof Charu Khosla Gupta (Acharya Narendra Dev College, University of Delhi, India): Ciliates: The Warriors of Ecorestoration
	10.30 am – 10.40 am	Prof Hardeep Kaur (Ramjas College, University of Delhi, India): Environmental Drivers of Fungal Resistance: Evolution, Mechanisms, and Impact
	10.40 am – 10.50 am	Dr Parveen Gill (Zakir Husain Delhi College, University of Delhi, India):
	10.50 am – 11.00 am	Dr Parminder Kaur Narang (SGTB Khalsa College, University of Delhi, India): Microalgae: Future perspectives- Human Welfare
	11.00 am – 11.10 am	Dr Anita Narang (Acharya Narendra Dev College, University of Delhi, India): Optimizing In Vitro Culture of <i>Acacia nilotica</i>: Overcoming Contamination, Browning, and Seasonal Variability
	11.10 am – 11.30 am	Tea
	11.30 am – 12.00 noon	Poster Session
		Chairpersons: Dr Ilmas Naqvi, Dr Meenakshi Thakur Co-Chairpersons: Dr Md. Arafat Hussain, Dr Rahul Dev
	12.00 noon – 12.10 pm	Dr Shashi Dahiya (ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India):

12.10 pm – 12.20 pm	Dr Archana Pandey (Acharya Narendra Dev College, University of Delhi, India):
12.20 pm – 12.30 pm	Prof Uma Dhawan (Bhaskaracharya College of Applied Sciences, University of Delhi, India):
12.30 pm – 12.40 pm	Prof Uma Chaudhary (Bhaskaracharya College of Applied Sciences, University of Delhi, India): Exploiting moonlight proteins to combat antimicrobial resistance
12.40 pm – 12.50 pm	Dr Sumit Sahni (School of Open Learning, University of Delhi, India):
12.50 pm – 01.00 pm	Dr Sunita Jetly (Acharya Narendra Dev College, University of Delhi, India):
01.00 pm – 01.10 pm	Dr Swati Sharma (Blood Research Center, University of North Carolina Chapel Hill, NC): Platelet PAR4 (F2RL3) plays a protective role in viral infections by inducing the release of anti-inflammatory extracellular vesicles (EVs)
01.10 pm – 01.20 pm	Dr Rashmi Sharma (Acharya Narendra Dev College, University of Delhi, India): Anticholinesterases in Plants and their Allelopathic Potential
Oral Presentations by Faculty	
Chairpersons: Dr Geetika Kalra, Prof Seema Gupta, Dr Monica Misra	
01.20 pm – 01.30 pm	Dr Mandeep Kaur (Acharya Narendra Dev College, University of Delhi, India):
01.30 pm – 02.20 pm	Lunch [GBM of ISoCB for members at 01.30 pm (committee room) followed by lunch]
02.20 pm – 02.30 pm	Dr Deepali Joon (SGTB Khalsa College, University of Delhi, India): Developing a Rapid Diagnostic Tool using Loop Mediated Isothermal Amplification Combined with Lateral Flow Dipstick: Insights for Ciliate Pathogen Detection
02.30 pm – 02.40 pm	Dr Vineet Girdharwal (Acharya Narendra Dev College, University of Delhi, India):
02.40 pm – 02.50 pm	Dr Rimpay Kaur Chowhan (Acharya Narendra Dev College, University of Delhi, India): SARS-CoV-2 and Heart Tissue Pathology: Uncovering New Insights into Protein Accumulation and Cardiovascular Impact
02.50 pm – 03.00 pm	Dr Jagjeet Singh (RPS Group of Institutions, Mahendergarh, Haryana, India): Protective efficacy of berberine against acetamiprid-mediated impaired electron transport system and mitochondrial ailments

03.00 pm – 03.10 pm	Dr Divya Bajaj (Hindu College, University of Delhi, India): The Vicious cycle of Anthropogenic Environmental pollutants and their Biomagnification Causing Food insecurity
03.10 pm – 03.20 pm	Ms Swati Maurya (Acharya Narendra Dev College, University of Delhi, India): To study the spatial and temporal variations in the physical, chemical parameters and ciliate community structure from the forest area and the extreme environments.
03.20 pm – 03.30 pm	Prof Ravneet Kaur (Acharya Narendra Dev College, University of Delhi, India):
03.30 pm – 03.40 pm	Dr Rajeev Ranjan (Acharya Narendra Dev College, University of Delhi, India): Bacterial bioluminescence: A rapid biosensing tool for ecotoxicological monitoring
03.40 pm – 03.50 pm	Ms Bhumika Chauhan (Acharya Narendra Dev College, University of Delhi, India): A Comprehensive study on Prevalance of Parasitic Infection in Commonly Edible Freshwater fish <i>Channa striata</i> (snakeheaded murrel) from Meerut region
03.50 pm – 04.20 pm	Poster Session
04.20 pm – 05.00 pm	Valedictory: Presentation of Summary, Dr Alan Warren Quiz Using Cut Outs from the Presentations Open to Students, Prize Distribution to Winners
05.00 pm	High Tea & Photo Session

DAY 2 (Room C)

Date	Time	
February 07, 2025	Oral Presentations by Students	
	Chairpersons: Prof Soma Mondal Ghorai, Prof Hardeep Kaur, Dr Jyoti Taneja	
	12.00 noon – 12.10 pm	Ms Muskan Yadav (Acharya Narendra Dev College, University of Delhi, India): Optimization of Recombinant Interferon Beta (IFN- β) Expression in <i>E. coli</i> through Systematic Variation of Induction Parameters
	12.10 pm – 12.20 pm	Mr Nitin Joshi (Acharya Narendra Dev College, University of Delhi, India): Impact of Air Pollution on Leaf Morphology in Urban Tree Species of Delhi
	12.20 pm – 12.30 pm	Mr Arnav Abhay Narayan (Acharya Narendra Dev College, University of Delhi, India): Biomechatronic Robotic Arm Actuated by Biological Muscle Tissue

12.30 pm – 12.40 pm	Mr Ashish Arora (Indian Institute of Technology Delhi, India): Synthesis and evaluation of Pangas catfish (<i>Pangasius Pangasius</i>) tail-derived hydroxyapatite-based 3D porous scaffolds for bone regeneration
12.40 pm – 12.50 pm	Ms Jyoti Dagar (Acharya Narendra Dev College, University of Delhi, India): Advancing Ciliate Diversity Studies: Insights from DNA Barcoding in Freshwater and Terrestrial Ecosystems
12.50 pm – 01.00 pm	Ms Saloni Ghosh (Acharya Narendra Dev College, University of Delhi, India): Unlocking SARS-CoV-2 Secrets: In-Silico Design of RT-PCR Primers for Rapid Diagnosis and Research
01.00 pm – 01.10 pm	Mr Sandeep Antil (Acharya Narendra Dev College, University of Delhi, India): Assessing Ciliate Diversity as a Bioindicator of Heavy Metal Pollution and Seasonal Water Quality Changes in the Yamuna River
01.10 pm – 01.20 pm	Mr Hariom Chaudhary (Acharya Narendra Dev College, University of Delhi, India): Cancer Resistance and MDM2: Uncovering the Molecular Mechanisms
01.20 pm – 01.30 pm	Ms Tanisha Singh (Acharya Narendra Dev College, University of Delhi, India): Efficacy of Zinc and copper nanoparticles in modulating seed germination
01.30 pm – 02.20 pm	Lunch [GBM of ISoCB for members at 01.30 pm (committee room) followed by lunch]
	Chairpersons: Dr Parminder Kaur Narang, Dr Raunak Dhanker, Dr Neetu Kukreja
02.20 pm – 02.30 pm	Mr Divyansh Joshi (Acharya Narendra Dev College, University of Delhi, India):
02.30 pm – 02.40 pm	Mr Abhilash Kumar (Ramjas College, University of Delhi, India): Resolving Taxonomic Ambiguities in <i>Williamsia</i> Species: A Whole-Genome Approach
02.40 pm – 02.50 pm	Dr Annu (Maharshi Dayanand University, Rohtak, Haryana, India): Acetamiprid exposure mediates structural and molecular alterations in the liver tissue of rats
02.50 pm – 03.00 pm	Ms Ritu Arora (Acharya Narendra Dev College, University of Delhi, India):
03.00 pm – 03.10 pm	Mr Sandeep Gupta (Acharya Narendra Dev College, University of Delhi, India): Assessing the Impact of COVID-19 and Its Vaccination on the Reactivation of Varicella-Zoster Virus
03.10 pm – 03.20 pm	Mr Hritik Kadian (Guru Gobind Singh Indraprastha University, New Delhi, India): Metal Mayhem: Unveiling the Toxic Impact of Heavy Metals on <i>Paramecium</i> sp.

03.20 pm – 03.30 pm	Mr Rohit Kumar Barnwal (Acharya Narendra Dev College, University of Delhi, India): Immobilization of Alpha-amylase extracted from germinating seedlings of barley using magnetic nanoparticles
03.30 pm – 03.40 pm	
03.40 pm – 03.50 pm	
03.50 pm – 04.20 pm	Poster Session
04.20 pm – 05.00 pm	Valedictory: Presentation of Summary, Dr Alan Warren Quiz Using Cut Outs from the Presentations Open to Students, Prize Distribution to Winners
05.00 pm	High Tea & Photo Session

Venue, unless mentioned otherwise, is Acharya Narendra Dev College, Govind puri, Kalka ji, New Delhi 110019