

7th Indian Drosophila Research Conference (InDRC2025)

Scientific Program

December 11, 2025 (Thursday)

08.00 am to 09.30 am	Breakfast
09.00 am to 10.30 am	Registration (Foyer of Lecture Hall Complex)
10.00 am to 10.15 am	Inaugural Session
Scientific Session 1	
Chairperson: Dr. S. C. Lakhotia	
10.18 am to 10.22 am	Opening remarks by Chairperson
10.25 am to 11.00 am	Dr. Adam Chippindale, An Evolutionary Battle of the Sexes: Arms Race or Arm Wrestle?
11.05 am to 11.30 am	Dr. Jishy Verghese Early-life nutritional stress reprograms insulin signalling and enhances starvation resilience in <i>Drosophila</i>
11.30 am to 12.00 pm	<i>Tea/Coffee Refreshment</i>
Scientific Session 2	
Chairperson: Dr. Ram Kumar Mishra	
12.03 pm to 12.05 pm	Opening remarks by Chairperson
12.07 pm to 12.32 pm	Dr. Sudipta Tung Plastic and Adaptive Responses to Dietary Macronutrient Variation in <i>Drosophila melanogaster</i>
12.35 pm to 01.00 pm	Dr. Varun Chaudhary Regulation of the unfolded protein response pathways by <i>Drosophila</i> Rer1 and its importance in competitive cell survival
01.02 pm to 01.27 pm	Dr. Rohit Joshi Molecular basis of cell diversity generation in developing central nervous system of <i>Drosophila</i> .
01.30 pm to 01.45 pm	Dr. Sveta Chakraborti <i>Drosophila</i> blood cells bridge distant injury and gut homeostasis through Upd3-mediated inter-organ signaling
01.45 pm to 02.45 pm	<i>Lunch Break</i>
Scientific Session 3	
Chairperson: Dr. Geetanjali Chawla	
02.50 pm to 02.52 pm	Opening remarks by Chairperson
02.55 pm to 03.30 pm	Dr. Amitabh Joshi Re-examining the role of heritability in explaining selection responses
03.32 pm to 03.57 pm	Dr. Carmen Coelho Determination of organ size through growth-rate dependent negative feedback
04.00 pm to 04.25 pm	Dr. Bodhisatta Nandy Life, death, and male fertility traits: a 1200 generation evolution experiment
04.27 pm to 04.42 pm	Dr. Meghana Tare Understanding cellular and molecular mechanisms involved in onset and progression of Parkinson's Disease

04.45 pm to 05.15 pm	<i>Tea/Coffee Refreshment</i>
04.45 pm to 6.45 pm	Poster Session 1 <i>First floor of Lecture Hall Complex</i>
07.00 pm to 08.00 pm	Cultural Program <i>Auditorium, LHC</i>
08.00 pm to 09.30 pm	<i>Dinner</i>

December 12, 2025 (Friday)

08.00 am to 09.30 am	<i>Breakfast</i>
09.00 am to 10.30 am	Registration (Foyer of Lecture Hall Complex)
	Scientific Session 4
	Chairperson: Dr. Vimlesh Kumar
09.30 am to 09.32 am	Opening remarks by Chairperson
09.35 am to 10.10 am	Dr. Gaiti Hasan Integration of neuromodulatory inputs by cellular Ca ²⁺ signaling for systemic growth and behaviour
10.13 am to 10.38 am	Dr. Sonal N Jaiswal <i>Inseparable: a new player in vesicle fusion</i>
10.40 am to 11.05 am	Dr. Surajit Sarkar Bench to Bedside with Drosophila: A Snapshot of Our Experience
11.07 am to 11.22 am	Dr. Dhananjay Chaturvedi Acox function in peroxisomes and beyond is essential for Skeletal Muscle homeostasis
11.25 am to 11.45 am	<i>Tea/Coffee Refreshment</i>
	Student Scientific Session 1
	Chairperson: Dr. Mohit Prasad
11.45 am to 11.47 am	Opening remarks by Chairperson
11.47 am to 11.57 am	Mr. Chinmay Krishna Effects for selection of rapid development and short breeding duration on sexually antagonistic coevolution in Drosophila
12.00 pm to 12.10 pm	Ms. Sohela Sarkar Tracheal cells on diet: How tracheal nutrition shapes the physiology and metabolism of the fruit fly (OP-2)
12.12 pm to 12.22 pm	Ms. Ujjayita Chowdhury Elucidating systemic signaling between epithelial tumor and the hematopoietic system: an inter-organ crosstalk in a Drosophila model of cancer cachexia (OP-3)
12.25 pm to 12.35 pm	Ms. Sarani Dey Developmental Spontaneous Neuronal Activity Alterations and its Connection with Autism Spectrum Disorder: Insights from the Drosophila Model (OP-4)
12.37 pm to 12.47 pm	Mr. Joy Bose Adaptation to Juvenile malnutrition associated with infection costs and increased disease transmission risk in Drosophila adults: a novel insight into Disease Ecology (OP-5)
12.50 pm to 01.00 pm	Mr. Saurabh Chand Sagar Rok, Arp2/3 and Gelsolin mediated microfilament disruption in absence of caspase-3 activity in Drosophila Malpighian tubules (MTs) (OP-6)
01.00 pm to 02.00 pm	<i>Lunch Break</i>

Scientific Session 5	
Chairperson: Dr. Pavan Agrawal	
02.05 pm to 02.07 pm	Opening remarks by Chairperson
02.09 pm to 02.45 pm	Dr. L S Shashidhara <i>Differential development of wing and haltere in <i>Drosophila</i></i>
02.48 pm to 03.13 pm	Dr. Mallikarjun Shakarad Healthy aging without tradeoffs: myth or reality
03.15 pm to 03.30 pm	Dr. Anand Singh The long noncoding RNA hsrw-n reduces neurotoxicity in the FUS-ALS model of <i>Drosophila</i> .
03.32 pm to 03.47 pm	Dr. Shampa Ghosh Sex-specific Effects of Temperature on Fitness Traits in <i>Drosophila melanogaster</i>
03.50 pm to 04.05 pm	Dr. Harshvardhan Thyagarajan The temporal dynamics of a balanced inversion polymorphism
04.10 pm to 04.40 pm	Sponsor Talk Mr. Rishi Kant , M/S Carl Zeiss India (Bangalore) Pvt. Ltd. High Speed Volumetric Imaging – Challenges and Opportunity
04.40 pm	GROUP PHOTO
04.50 pm to 05.15 pm	<i>Tea/ Coffee Refreshment</i>
Poster Session 2	
04.50 pm to 6.50 pm	<i>First floor of Lecture Hall Complex</i>
07.00 pm to 08.00 pm	
08.00 pm to 09.30 pm	<i>Dinner</i>

December 13, 2025 (Saturday)

08.00 am to 09.30 am	<i>Breakfast</i>
09.00 am to 10.30 am	Registration (Foyer of Lecture Hall Complex)
Scientific Session 6	
Chairperson: Dr. Kasturi Mitra	
09.30 am to 09.32 am	Opening remarks by Chairperson
09.32 am to 10.07 am	Dr. Marco Milan <i>Chromosomal Instability in development and disease: beyond cancer evolution</i>
10.10 am to 10.35 am	Dr. Subhash Rajpurohit Dynamic modulation of insect cuticular hydrocarbons under desiccation stress
10.37 am to 11.03 am	Dr. Tina Mukherjee The Immuno-Metabolic Control of Organismal Growth
11.05 am to 11.25 am	Dr. Vanika Gupta Single-cell resolution of fat body specialisation and immune constraints in <i>Drosophila</i>
11.25 am to 11.45 am	<i>Tea/Coffee Refreshment</i>
Student Scientific Session 2	
Chairperson: Dr. Gaurav Das	
11.45 am to 11.47 am	Opening remarks by Chairperson
11.47 am to 11.57 am	Ms. Adhisree Sharma Proteasomal Subunit Rpn7, Choreographs Group Cell Migration in <i>Drosophila</i> Oogenesis (OP-7)

12.00 pm to 12.10 pm	Mr. Srikanth Pippadpally E3 Ubiquitin Ligase Highwire/Phr1 Phase Separation Mediates Endocytic Control of JNK Signaling in <i>Drosophila</i> Neurons (OP-8)
12.12 pm to 12.22 pm	Ms. Tsering Choton Pathogen-driven selection shapes the <i>Drosophila</i> genome at specific loci while maintaining overall diversity (OP-9)
12.25 pm to 12.35 pm	Ms. Devki Usage of ACE Inhibitor triggers Oxidative Stress, Impairing Hematopoiesis and Immune Response (OP-10)
12.37 pm to 12.47 pm	Mr. Abhijith Pradeep Differentiating Blood Cells Define the Hematopoietic Niche Size in <i>Drosophila</i> larval lymph gland (OP-11)
12.50 pm to 01.00 pm	Mr. Snehasish Samanta Context-dependent differential neurotransmission from octopaminergic neurons drives distinct memory consolidation pathways (OP-12)
01.00 pm to 02.00 pm	<i>Lunch Break</i>
Scientific Session 7	
Chairperson: Dr. Jagat Kumar Roy	
02.03 pm to 02.05 pm	Opening remarks by Chairperson
02.07 pm to 02.45 pm	Dr. Adrian Moore <i>Building Dendrites</i>
02.50 pm to 03.15 pm	Dr. Rhitobhan Raychoudhury Integrated 'Weed' Management in Fungus-growing termites.
03.17 pm to 03.32 pm	Dr. Debdeep Dutta Genes and Mitochondria: Exploring Molecular Connections
03.35 pm to 03.50 pm	Dr. Richa Arya Canonical Cell Cycle Regulators and Their Impact on the Growth Dynamics of Cortex Glia in the <i>Drosophila</i> Central Nervous System
04.15 pm to 04.30 pm	Valedictory Program
04.30 pm to 05.30 pm	<i>High Tea</i>