

6th Indian Zebrafish Investigators' Meeting 2026 (IZIM2026)

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CSIR-Institute of Genomics and Integrative Biology
(CSIR-IGIB)

2-4 October 2026



1:00 - 2:00 PM	Lunch	
2:00 - 3:00 PM	Registration	
3:00 - 3:15 PM	Welcome & Director's Address	
Session 1	Chair: Shruthy Suresh Aggarwal	
3:15 - 3:55 PM	PLENARY LECTURE Marianne Bronner Caltech, Pasadena, USA	Gene regulatory analysis of enteric nervous system development
3:55 - 4:15 PM	Chinmoy Patra Agharkar Research Institute, Pune	Domain-specific functions of Adhesion G protein-coupled receptor in development
4:15 - 4:35 PM	Sreelaja Nair IIT Bombay, Mumbai	Role of tRNA-derived small RNAs (tsRNA) in Regulating Transcription During Development
4:35 - 4:45 PM	Greg Jude Dsilva IISER Pune / Shiv Nadar University	Establishment of Distinct Pre-ZGA H3K4me1 Chromatin Landscapes During Zebrafish Embryogenesis
4:45 - 4:55 PM	Jyotishman Sarma BRIC-NIBMG, Kalyani / Regional Centre for Biotechnology, Faridabad	PTPRM Regulates Connexin43 to Maintain Lens Homeostasis During Ocular Development in Zebrafish
4:55 - 5:25 PM	Tea break	

Session 2	Chair: Amrutha Swaminathan	
5:25 - 5:55 PM	EMBO GLOBAL LECTURE Roberto Mayor UCL, London, UK	Forces that Shape Fate: The Mechanics of Neural Crest Development
5:55 - 6:15 PM	Vivek T Natarajan CSIR-IGIB, New Delhi	Cell Fate Decisions in Melanocyte Development and Melanoma Revealed by Zebrafish Somatic Mutagenesis and Single-Cell Profiling
6:15 - 6:35 PM	Mujahidkhan A. Pathan ICAR-CIFE, Mumbai	Genetic Parameters and Inbreeding Effects on Growth and Production Traits in Zebrafish (Danio rerio): Implications for Selective Breeding
6:35 - 6:45 PM	Roopsali Banerjee IISER Pune	Kapitin Mediated Actin Cytoskeleton Remodelling in Neural Circuit Development and Seizures
7:00 PM	Dinner	

7:30 - 8:30 AM	Breakfast	
Session 3	Chair: Mahendra Sonawane	
9:00 - 9:30 AM	KEYNOTE LECTURE Karuna Sampath Warwick, Coventry, UK	RNA granules in oocyte polarity and germline development
9:30 - 9:50 AM	Beena Pillai BRIC-Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	Persistent effects of inherited RNAs on brain and behaviour
9:50 - 10:10 AM	Jason Rihel UCL, London, UK	Genetic Evidence for Two Independent Neuropeptide-Regulated Sleep Homeostats in Zebrafish
10:10 - 10:20 AM	Anil Komanduru CSIR-CCMB, Hyderabad	Swimming in Plastic: What Zebrafish Reveal About Microplastic Toxicity
10:20 - 10:30 AM	Arkajyoti Sanyal Tata Institute of Fundamental Research, Mumbai	Characterizing the Physical and Chemical Mechanisms of Tissue Shape Change in Zebrafish Embryonic Explants
10:30 - 11:30 AM	Tea + Poster Session (all posters)	

Session 4	Chair: Rajeeb Swain	
11:30 AM - 12:00 PM	EMBO GLOBAL LECTURE Filippo Del Bene Institut de la Vision, Paris, France	Precise genome editing tools for disease modelling in zebrafish
12:00 - 12:20 PM	Rajesh Ramachandran IISER Mohali, Mohali	HDACs regulate immune cell dynamics and ECM remodeling during appendage regeneration in zebrafish and axolotl
12:20 - 12:30 PM	Gautam Mohapatra IIT Madras, Chennai	Targeting the Lactate Receptor (GPR81) to Suppress Neuronal Hyperexcitability and Seizures in Drug-Resistant Epilepsy: A GIRK Channel-Mediated Mechanism
12:30 - 12:45 PM	Thermo - Sponsor Talk	
12:45 - 12:55 PM	Samitek - Sponsor Talk	
12:55 - 2:00 PM	Lunch	

Session 5		Chair: Aurnab Ghose
2:00 - 2:30 PM	KEYNOTE LECTURE Amitabha Bandyopadhyay IIT Kanpur, Kanpur	Articular cartilage can be regenerated in murine models of osteoarthritis
2:30 - 2:50 PM	Anamika Bhargava IIT Hyderabad, Hyderabad	Bridging Drug Exposure and Efficacy: LC-MS/MS Based Measurement of Doxorubicin Uptake in Zebrafish Breast Cancer Xenografts
2:50 - 3:00 PM	Sanovar Dayal CSIR-IGIB, New Delhi	durga: A Behaviour Modulating, Inherited, Enhancer RNA in Zebrafish
3:00 - 3:10 PM	Bhawna Malik Panjab University, Chandigarh	Hyperglycemia Induced Diabetic Retinopathy Zebrafish Model: Dose-Time Response and Behavioral Study
3:10 - 3:20 PM	Varshini R IISER Mohali	Role of Marcks and Marcks Like Protein in Zebrafish Retina and Fin Regeneration
3:20 - 3:30 PM	Biolegend - Sponsor Talk	
3:30 - 5:00 PM	Tea + Poster Session (all posters)	

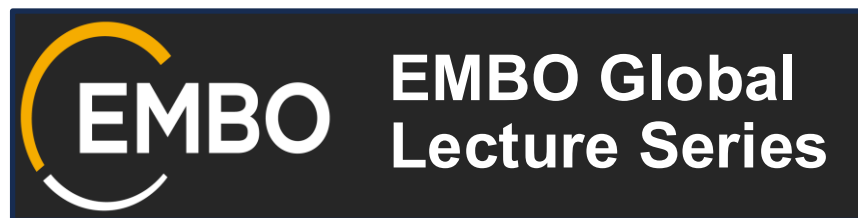
Session 6	Chair: Megha Kumar	
5:00 - 5:20 PM	Yogesh Bhargava Dr. Harisingh Gour Vishwavidyalaya, Sagar, MP	Open and Affordable Technologies Across the Zebrafish Research Pipeline
5:20 - 5:30 PM	Stuti Gupta IIT Bombay, Mumbai	Novel and Non-canonical Role of RNA Polymerase II in Regulating Gene Expression in Early Zebrafish Embryos
5:30 - 5:40 PM	Sambuddha Banerjee Visva-Bharati University, Santiniketan	Environmental Acrylamide Exposure Disrupts the Central Kiss2-GnRH3-LH Axis to Impair Reproductive Fitness in Adult Female Zebrafish
5:40 - 6:00 PM	Mohita Malay Tagore Memorial Sloan Kettering Cancer Center, New York, USA	From Cell State to Tissue State: Bioelectric Control of Melanoma Initiation in Zebrafish
6:00 - 6:10 PM	Kaushani Ghosh Shiv Nadar Institution of Eminence, Delhi	One Signal, Two Fates: Calcium Dynamics Dictate Organ-Specific Injury in the Alcohol-Exposed Zebrafish
6:10 - 6:20 PM	Addgene - Sponsor Talk	
6:20 - 7:00 PM	Community Session (all participants invited): Chetana Sachidanandan	
7:00 PM	Gala Dinner + DJ Music/Dance	

7:30 - 8:30 AM	Breakfast	
Session 7	Chair: Rudra Nayan Das	
9:00 - 9:20 AM	Agnik Dasgupta TCG CREST-CHINTA, Kolkata	From pulse to patterning: Spatiotemporal code for sensory morphogenesis
9:20 - 9:40 AM	Rita Mateus Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany	Developmental growth rates adapt to enable self-correction of organ morphology after injury
9:40 - 10:00 AM	Sudipta Maitra Vishwa Bharati, Shantiniketan	Neuroendocrine-Metabolic Integration and Mitochondrial Remodelling Coordinates Ovulation in Zebrafish
10:00 - 10:20 AM	Ravneet Kaur Panjab University, Chandigarh	Microscopic and Neurobehavioral Insights into Neural Degeneration and Regeneration in a Stressed Zebrafish Model
10:20 - 10:50 AM	Tea break	

Session 8		Chair: Hetal Roy
10:50 - 11:10 AM	Damanpreet Singh CSIR-IHBT, Palampur	Development of a Novel Clinically Relevant Zebrafish Model of Epilepsy: Phenotyping to Multidimensional Validation
11:10 - 11:30 AM	Bittu Kaveri Rajaraman Ashoka University, Sonapat	Quantity perception in social decision making in zebrafish
11:30 - 11:50 AM	Rajeeb Swain Institute of Life Sciences, Bhubaneswar	Rhomboid-like 4 regulates hematopoietic cell migration in zebrafish
11:50 AM-12:10 PM	Sumeet Pal Singh Université libre de Bruxelles, Belgium & Shiv Nadar Institution of Eminence, Delhi	CellCousin: Exploring Cellular Mosaics in Regeneration, Inflammation and Cancer
Session 9		Chair: Vivek T Natarajan
12:10 - 12:30 PM	Declaration of awards	
12:30 - 12:50 PM	Closing remarks	
12:50 - 1:50 PM	Lunch	



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