

InSDB-ISD Joint Meeting Schedule 2025

Day 1 (14-12-25)		Day 2 (15-12-25)		Day 3 (16-12-25)		Day 4 (17-12-25)	
		Session 2	Stem cells and stem cell-based models Chair: Sameer Thukral	Session 4	Organogenesis: Cell differentiation, morphogenesis and growth Chair: Tathagata Biswas	Session 6	Mechanical regulation of morphogenesis Chair: Neelanjana Ray
		9.00-9.25	Alfonso Martinez Arias: Gastrulation: a pluripotent stem cell perspective	9.00-9.25	Raj Ladher: Controllng Cochlear Morphogenesis	9.00-9.25	Tamal Das: From Cytoskeletal Dynamics to Organelle Coordination: Cellular Mechanisms of Morphogenesis
		9.25-9.50	Shahragim Tajbakhsh: Development of anterior structures in vivo and in embryo-models ex vivo	9.25-9.50	Richard Behringer: Tissue remodeling during sex differentiation	9.25-9.50	Maithreyi Narasimha: TBD
		9.50-10.05	ST6 Nitya Nandkishore:Cell signaling & its disruption: The emergence of cellular diversity	9.50-10.05	ST 11 Vidhya Munnamalai:Cytoarchitecture of auditory sensory cells determine their proliferative potential	9.50-10.05	ST 17 Girish Ratnaparkhi: A face-off between Smaug and Caspar modulates primordial germ cell count and identity in Drosophila embryos
		10.05-10.20	ST 7 Adrian Walton Moore:Transcriptional Amplification Modulates Notch Responses in Neural Stem Cells in a Cell Cycle Phase-Dependent Manner	10.05-10.20	ST 12 Rudra Nayan Das: Cellular Origins and Molecular Mechanisms Underlying the Establishment of Inferior Vena Cava – the Largest Vein in Vertebrates	10.05-10.20	ST 18 Kavita Babu: Eavesdropping on C. elegans conversations: how memory moves from one worm to another
		10.20-10.35	ST 8 Osvaldo Contreras: Pan-Omics Reveals the Impact of DNA Replication Stress on Pluripotency and Human Development	10.20-10.45	Elazar Zelzer: Sculpting the Skeleton: Mechanisms That Shape Bone Morphology	10.20-10.45	Jyotsna Dhawan: Quiet communications from muscle stem cells
		10.35-11:00	Maneesha Inamdar: TBD	10.45-11.00	ST 13 Loydie Majewska: TMED2 is required for craniofacial and heart morphogenesis	10.45-11.00	ST 19 Sarmistha Mahanty:Adaptive modulation of the endo-lysosome pathway regulates skin keratinocyte differentiation and epidermis development
		11.00-11.25		11.00-11.25	Utpal Nath: Genetic and Cellular Basis of Fertilization-dependent Fruit Elongation in Arabidopsis	11.00-11.25	Mahendra Sonawane: Biochemical and Biomechanical Regulation of Epithelial Architecture

12.00- 13.00	Executive Board meeting	11.30-12.00	Break	11.30-12.00	Break	11.30-12.00	Break
13.00- 14.00	Lunch	12.00-13.00	Closed door brainstorming session: Human stem cell research in India Hosts: Kasturi Mahadik, Mansi Srivastava ----- Free networking time	12.00-12.25	Robert Kelly: Cardiopharyngeal mesoderm and muscle development at the head trunk interface	12.00-13.00	Panel discussion: Demystifying the postdoc process (Ph.D. to postdoc career transition) Hosts: Bipasha Dey and Sameer Thukral Panelists: Raghavan Thiagaran, Tathagata Biswas, tbd
14.00- 15.15	Registration			12.25-12.50	Shankar Srinivas: Behavioural and mechanical heterogeneities underpin cell migration essential for mouse anterior patterning		
15.15- 15.30	Welcome address	13.00-15.30	Lunch/Posters	13.00-15.30	Lunch/Posters	13.00-13.30	GB Meeting
						13.30-15.00	Lunch/Posters
Session 1	Embryo implantation and early patterning Chair: Ankita Sharma	Session 3	Cell signaling and metabolism in development Chair: Shweta Verma	Session 5	Physical principles and cell/tissue mechanics underlying development Chair: Ekita Gupta	Session 7	From identity to regeneration: Cellular decision making in development Chair: Smitha Bhaskar Rao
15.30-15.55	Peter Currie: Understanding the in vivo dynamics of distinct muscle stem cells systems during growth and regeneration and their different niches across the vertebrate phylogeny	15.30-15.55	Sally Dunwoodie: NAD deficiency and its impact on embryogenesis	15.30-15.55	Shaon Chakrabarti: Leveraging early fate decisions on single-cell lineages allow discovery of cancer drug-persister states	15.00- 15.25	Joshua Brickman: Don't Believe the Hype - Transcription Factors, Potential, Memory or Identity
15.55-16.20	Amitabha Nandi: Morphogenesis in the syncytial embryo: understanding the role of cytoarchitecture	15.55- 16.10	ST 9 Peter Lwigale: Disruption of Cxcl12/Cxcr4 signaling alters neurovascular patterning during ocular development	15.55- 16.10	ST 14 Bipasha Dey: Strategies for mechanical stress management during gastrulation across evolution	15.25-15.50	Ravi Maruthachalam: Harnessing uniparental genome elimination to decipher plant development
		16.10-16.25	ST 10 Aishwarya Rai: FGF8 orchestrates ventral morphogenesis and patterning during chick forebrain development	16.10-16.25	ST 15 Raghavan Thiagarajan: Spatio-temporal dynamics and sub-cellular patterning of Basal bodies (BBs)	15.50- 16.05	ST 20 Sonia Sen: Integrating spatial and temporal cues to generate neural diversity in Drosophila neural stem cells
16.20-16.35	ST1 Deepak Modi: HOXA10-TWIST2 Antagonism Drives Partial Epithelial-to-Mesenchymal transition for Embryo Implantation	16.25-16.35	Sponsor talk 1: Zeiss	16.25-16.40	ST 16 Anuradha Ratnaparkhi: Folded gastrulation (Fog) as a novel regulator of Blood-Brain-Barrier formation in Drosophila.	16.05-16.20	ST 21 Sumeet Pal Singh: CellCousin: A Novel Ablation Tool Reveals Transdifferentiation as a Key Mechanism of Liver Regeneration During Growth Spurts
16.35-16:50	ST2 Sharmishtha Shyamal: Multi-transcriptomics Map of the Uterus for Embryo Implantation	16.35-17.00	Suchitra Gopinath: Modelling developmental origins of Metabolic syndrome	16.40-17.05	Chaitanya Athale: Physical constraints on the evolution of spindle dynamics in first embryonic division of nematodes related to Caenorhabditis elegans	16.20- 16.35	ST 22 Kamalesh Kumari: Mechanistic Insights Into Membrane Crumpling–Mediated Exocytosis in Exocrine Glands

16.50-17.05	ST 3 Oeshi Sarkar: Deciphering the molecular mechanism involved in tendon development and enthesis formation	17.00-17.25	Ina Sonnen: Signaling dynamics in the control of vertebrate mesoderm segmentation	17.05-17.30	Priti Agarwal: Decoding the role of mechanics in organ morphogenesis	16.35-17.00	Anne McLaren Awardee Talk by Richa Rikhy: Mitochondrial dynamics in embryogenesis and stem cell differentiation
17.05-17.20	ST4 Varsha NT: Fine mapping of regulators involved in chick left-right symmetry breaking						
17:20 - 17:35	ST5 Varun Chaudhary: Regulation of the Unfolded Protein Response pathways by Drosophila Rer1 is essential for competitive cell survival						
17.35-18.00	Break	17.30-18.00	Break	17.30-18.00	Break	17.00-	Departure to Mayfair resort
18.00-19.00	Workshop - Publishing Loydie Jerome-Majewska, Sally Dunwoodie, James Briscoe, Raj Ladher, Sonia Sen	18.00-18.25	Tina Mukherjee: The evolution of mosquito vector competence, through the lenses of sensory perception	18:00-19:00	Jean Brachet Memorial Lecture by James Briscoe		Prizes, Conclusion and Gala dinner
		18:25-19:00	Compass Award presentation				
19.00-	Welcome Mixer	19.00-	Dinner	19.00-	Dinner		

