

# 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	<b>Alfonso Martinez Arias:</b> Gastrulation: a pluripotent stem cell perspective	9.00-9.25	<b>Raj Ladher:</b> Controlling Cochlear Morphogenesis	9.00-9.25	<b>Tamal Das:</b> From Cytoskeletal Dynamics to Organelle Coordination: Cellular Mechanisms of Morphogenesis
		9.25-9.50	<b>Shahragim Tajbakhsh:</b> Development of anterior structures in vivo and in embryo-models ex vivo	9.25-9.50	<b>Richard Behringer:</b> Tissue remodeling during sex differentiation	9.25-9.50	<b>Maithreyi Narasimha:</b> 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	<b>Elazar Zelzer:</b> Sculpting the Skeleton: Mechanisms That Shape Bone Morphology	10.20-10.45	<b>Jyotsna Dhawan:</b> Quiet communications from muscle stem cells
		10.35-11:00	<b>Maneesha Inamdar:</b> 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	<b>Utpal Nath:</b> Genetic and Cellular Basis of Fertilization-dependent Fruit Elongation in Arabidopsis	11.00-11.25	<b>Mahendra Sonawane:</b> 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	<b>Closed door brainstorming session: Human stem cell research in India</b> Hosts: Kasturi Mahadik, Mansi Srivastava ----- Free networking time	12.00-12.25	<b>Robert Kelly:</b> Cardiopharyngeal mesoderm and muscle development at the head trunk interface	12.00-13.00	<b>Panel discussion: Demystifying the postdoc process</b> (Ph.D. to postdoc career transition)
14.00- 15.15	Registration	13.00-15.30	Lunch/Posters	13.00-15.30	<b>Shankar Srinivas:</b> Behavioural and mechanical heterogeneities underpin cell migration essential for mouse anterior patterning	13.00-13.30	GB Meeting
15.15- 15.30	Welcome address	13.00-15.30	Lunch/Posters	13.00-15.30	Lunch/Posters	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	<b>Peter Currie:</b> Understanding the in vivo dynamics of distinct muscle stem cell systems during growth and regeneration and their different niches across the vertebrate phylogeny	15.30-15.55	<b>Sally Dunwoodie:</b> NAD deficiency and its impact on embryogenesis	15.30-15.55	<b>Shaon Chakrabarti:</b> Leveraging early fate decisions on single-cell lineages allow discovery of cancer drug-persister states	15.00- 15.25	<b>Joshua Brickman:</b> Don't Believe the Hype - Transcription Factors, Potential, Memory or Identity
15.55-16.20	<b>Amitabha Nandi:</b> 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	<b>Ravi Maruthachalam:</b> Harnessing uniparental genome elimination to decipher plant development
16.20-16.35	ST1 Deepak Modi: HOXA10-TWIST2 Antagonism Drives Partial Epithelial-to-Mesenchymal transition for Embryo Implantation	16.25-16.35	ST10 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
16.35-16:50	ST2 Sharmishta Shyamal: Multi-transcriptomics Map of the Uterus for Embryo Implantation	16.35-17.00	Sponsor talk 1: Zeiss <b>Suchitra Gopinath:</b> Modelling developmental origins of Metabolic syndrome	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
				16.40-17.05	<b>Chaitanya Athale:</b> Physical constraints on the evolution of spindle dynamics in first embryonic division of nematodes related to <i>Caenorhabditis elegans</i>	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	<b>Ina Sonnen:</b> Signaling dynamics in the control of vertebrate mesoderm segmentation	17.05-17.30	<b>Priti Agarwal:</b> Decoding the role of mechanics in organ morphogenesis	16.35-17.00	<b>Anne McLaren Awardee Talk by Richa Rikhy:</b> 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-	<b>Departure to Mayfair resort</b>
18.00-19.00	Workshop - Publishing Loydie Jerome-Majewska, Sally Dunwoodie, James Briscoe, Raj Ladher, Sonia Sen	18.00-18.25	<b>Tina Mukherjee:</b> The evolution of mosquito vector competence, through the lenses of sensory perception	18:00-19:00	<b>Jean Brachet Memorial Lecture by James Briscoe</b>		Prizes, Conclusion and Gala dinner
19.00-	Welcome Mixer	19.00-	Dinner	19.00-	Dinner		

