

InSDB-ISD Joint Meeting Schedule

Day 1 (14-12-25)

12.00- 13.00	Executive Board meeting
13.00- 14.00	Lunch
14.00- 15.15	Registration
15.15- 15.30	Welcome address
Session 1	Embryo implantation and early patterning Chair: Ankita Sharma
15.30-15.55	Peter Currie: Understanding the <i>in vivo</i> dynamics of distinct muscle stem cells systems during growth and regeneration and their different niches across the vertebrate phylogeny
15.55-16.20	Amitabha Nandi: Morphogenesis in the syncytial embryo: understanding the role of cytoarchitecture
16.20-16.35	ST1 Deepak Modi: HOXA10-TWIST2 Antagonism Drives Partial Epithelial-to-Mesenchymal transition for Embryo Implantation
16.35-16:50	ST2 Sharmishtha Shyamal: Multi-transcriptomics Map of the Uterus for Embryo Implantation
16.50-17.05	ST 3 Oeshi Sarkar: Deciphering the molecular mechanism involved in tendon development and enthesis formation
17.05-17.20	ST4 Varsha NT: Fine mapping of regulators involved in chick left-right symmetry breaking

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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
18.00-19.00	Workshop - Publishing Loydie Jerome-Majewska, Sally Dunwoodie, James Briscoe, Raj Ladher, Sonia Sen
19.00-	Welcome Mixer

Day 2 (15-12-25)

Session 2	Stem cells and stem cell-based models Chair: Sameer Thukral
9.00-9.25	Alfonso Martinez Arias: Gastrulation: a pluripotent stem cell perspective
9.25-9.50	Shahragim Tajbakhsh: Development of anterior structures <i>in vivo</i> and in embryo-models <i>ex vivo</i>
9.50-10.05	ST6 Nitya Nandkishore: Cell signaling & its disruption: The emergence of cellular diversity
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

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10.20-10.35	ST 8 Osvaldo Contreras: Pan-Omics Reveals the Impact of DNA Replication Stress on Pluripotency and Human Development
10.35-11:00	Maneesha Inamdar: Developing an Accessible Human Gastruloids-based Platform for Assessing Cell Fate Decisions and Teratogenicity
11.00-11.25	Pavithra Chavali: WDR62 Couples Organellar Homeostasis to Neurogenic Fate During Human Brain Development
11.30-12.00	Break
12.00-13.00	Closed door brainstorming session: Human stem cell research in India Hosts: Kasturi Mahadik, Mansi Srivastava ----- Free networking time
13.00-15.30	Lunch/Posters
Session 3	Cell signaling and metabolism in development Chair: Shweta Verma
15.30-15.55	Sally Dunwoodie: NAD deficiency and its impact on embryogenesis
15.55- 16.10	ST 9 Peter Lwigale: Disruption of Cxcl12/Cxcr4 signaling alters neurovascular patterning during ocular development

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16.10-16.25	ST 10 Aishwarya Rai: FGF8 orchestrates ventral morphogenesis and patterning during chick forebrain development
16.25-16.35	Sponsor talk 1: Zeiss
16.35-17.00	Suchitra Gopinath: Modelling developmental origins of Metabolic syndrome
17.00-17.25	Ina Sonnen: Signaling dynamics in the control of vertebrate mesoderm segmentation
17.30-18.00	Break
18.00-18.25	Tina Mukherjee: The evolution of mosquito vector competence, through the lenses of sensory perception
18:25-19:00	Compass Award presentation
19.00-	Dinner

Day 3 (16-12-25)

Session 4	Organogenesis: Cell differentiation, morphogenesis and growth Chair: Tathagata Biswas
9.00-9.25	Raj Ladher: Controlling Cochlear Morphogenesis

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9.25-9.50	Richard Behringer: Tissue remodeling during sex differentiation
9.50-10.05	ST 11 Vidhya Munnamalai: Cytoarchitecture of auditory sensory cells determine their proliferative potential
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
10.20-10-45	Elazar Zelzer: Sculpting the Skeleton: Mechanisms That Shape Bone Morphology
10.45-11.00	ST 13 Loydie Majewska: TMED2 is required for craniofacial and heart morphogenesis
11.00-11.25	Utpal Nath: Genetic and Cellular Basis of Fertilization-dependent Fruit Elongation in <i>Arabidopsis</i>
11.30-12.00	Break
12.00-12.25	Robert Kelly: Cardiopharyngeal mesoderm and muscle development at the head trunk interface
12.25-12.50	Shankar Srinivas: Behavioural and mechanical heterogeneities underpin cell migration essential for mouse anterior patterning
13.00-15.30	Lunch/Posters

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Session 5	Physical principles and cell/tissue mechanics underlying development Chair: Ekita Gupta
15.30-15.55	Shaon Chakrabarti: Leveraging early fate decisions on single-cell lineages allow discovery of cancer drug-persister states
15.55- 16.10	ST 14 Bipasha Dey: Strategies for mechanical stress management during gastrulation across evolution
16.10-16.25	ST 15 Raghavan Thiagarajan: Spatio-temporal dynamics and sub-cellular patterning of Basal bodies (BBs)
16.25-16.40	ST 16 Anuradha Ratnaparkhi: Folded gastrulation (Fog) as a novel regulator of Blood-Brain-Barrier formation in <i>Drosophila</i> .
16.40-17.05	Chaitanya Athale: Physical constraints on the evolution of spindle dynamics in first embryonic division of nematodes related to <i>Caenorhabditis elegans</i>
17.05-17.30	Priti Agarwal: Decoding the role of mechanics in organ morphogenesis
17.30-18.00	Break
18:00-19:00	Jean Brachet Memorial Lecture by James Briscoe: The Dynamics of Spinal Cord Development
19.00-	Dinner

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Day 4 (17-12-25)

Session 6	Mechanical regulation of morphogenesis Chair: Neelanjana Ray
9.00-9.25	Tamal Das: From Cytoskeletal Dynamics to Organelle Coordination: Cellular Mechanisms of Morphogenesis
9.25-9.50	Maithreyi Narasimha: Patterning the Drosophila embryonic neuroepithelium: integrins as placeholders and timekeepers
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 18 Kavita Babu: Eavesdropping on <i>C. elegans</i> conversations: how memory moves from one worm to another
10.20-10-45	Jyotsna Dhawan: Quiet communications from muscle stem cells
10.45-11.00	ST 19 Sarmistha Mahanty: Adaptive modulation of the endolysosome pathway regulates skin keratinocyte differentiation and epidermis development
11.00-11.25	Mahendra Sonawane: Biochemical and Biomechanical Regulation of Epithelial Architecture
11.30-12.00	Break

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12.00-13.00	Panel discussion: Demystifying the postdoc process (Ph.D. to postdoc career transition) Hosts: Bipasha Dey and Sameer Thukral Panelists: Raghavan Thiagarajan, Tathagata Biswas, Priti Agarwal
13.00-13.30	GB Meeting
13.30-15.00	Lunch/Posters
Session 7	From identity to regeneration: Cellular decision making in development Chair: Smitha Bhaskar Rao
15.00- 15.25	Joshua Brickman: Don't Believe the Hype - Transcription Factors, Potential, Memory or Identity
15.25-15.50	Ravi Maruthachalam: Harnessing uniparental genome elimination to decipher plant development
15.50- 16.05	ST 20 Sonia Sen: Integrating spatial and temporal cues to generate neural diversity in <i>Drosophila</i> neural stem cells
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
16.20- 16.35	ST 22 Kamalesh Kumari: Mechanistic Insights Into Membrane Crumpling-Mediated Exocytosis in Exocrine Glands

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16.35-17.00

Anne McLaren Awardee Talk by Richa Rikhy:

Mitochondrial dynamics in embryogenesis and stem cell differentiation

17.00-

Departure to Mayfair resort

Prizes, Conclusion and Gala dinner



Megha Rama