		DAY 1: 21st February		
7:00:8:00		Breakfast (NCBS Main C	anteen)	
8:00-9:30 9:30	Welcome Address:Maneesha Inamdar	Registration (Ectoderm-i InSDB President, InStem Director	nStem)	
	Session 1: Generating Form Venue: Ectoderm-inStem (Live) Chair: Dasaradhi Palakodeti (inStr			
9:35-10:00	Hiroshi Hamada	Diversity of left-right asymmetry among animals		
10:00-10:10	Gaurab Ghosh	Ecdysone in Follicle Cell Morphogenesis: Notching Up the Game		
10:10-10:35	Venkatesan Sundaresan	Gametes to Zygotes to Self- Cloning plants		
10:35-11:00	Dinithi Sumanaweera	Aligning in vitro and in vivo developmental trajectories of the Human Cell Atlas		
11:00-11:02	Dipti Verma	Functional implications of Drosophila Non-muscle myosin Il Zipper in regulation of Notch signaling		
11:02-11:04	Aditya Singh Rajput	Symmetry and Patterning, Theoretical and Quantitative Approaches to Development		
11:05-11:40		Break: InStem Atrium		
	Session 2: Organelles in Develo Venue: Ectoderm-inStem Chairs: V Nagaraja (IISc) and Ron		Venue: Dasheri-inS	ions in Development Stem ICSAR) and Sreeja Kumari Dhanya
11:45-12:10	Sreelaja Nair	Early events in the life of newly fertilised vertebrate embryos - insights from zebrafish	Abhishek Bhattacharya	Molecular diversity of electrical synapses
12:10-12:35	Sudipto Roy	Making Multiciliated Cells	Ramkumar Sambasivan	Mechanism of early mesoderm divergence along the anterior- posterior axis
12:35-1:00	Achira Roy	In search of convergent mechanisms underlying developmental hydrocephalus	Reena Singh	Understanding the Ontogeny or CardioVascular and Blood progenitors
1:00-1:10	Vaishali Kataria	dOCRL, a lipid phosphatase implicated in Lowe syndrome regulates endo-lysosomal trafficking in nephrocytes	Ankita Walvekar	Shh is secreted on distinct exosomes to activate its canonical versus G-alpha(i) signaling arm during neuronal
1:10-1:20	Rashi Agarwal	Macrophage-mediated regulation of retinal stem cells is necessary for proper retinal development	Pravati Kumari Mahapatra	Potential neurotrophic action of FGF1 in spinal cord self-repair in the wake of tail regeneration in tadpoles of the Indian tree
1:20-1:22	Asutosh Behera	The status of Wnt signaling in cortical neurogenesis	Ravneet Kaur	frog Polypedates maculatus A study on pollen competition in Arabidopsis hybrids
1:22-1:24	Nikhil Kumar Jaligam	Dissecting the Gene regulatory network in maintaining the pluripotency in planarian	Ujjayita Chowdhury	Understanding systemic signalling and inter-organ communication between tumor

Lunch (NCBS Lawn)

Posters (InStem Atrium)

Session 4: Making and Repairing the Nervous System Venue: Dasheri (Live) and Ectoderm (Simulcast) Chairs: Raghu Padinjat (NCBS) and Amrita Singh (TIFR-Mumbai)

2:30-4.00

4:00-4:25	Shubha Tole	Signals, Cells, Sequences from the edge in the middle of the brain
4:25-4:50	Fumio Matsuzaki	Expansion of brain size and scaling in developmental time
4:50-5:15	Jonaki Sen	The saga of how cell adhesion contributes to the forces that split the cerebrum
5:15-5:40	Richa Verma	Multimodal high-resolution characterization of the developing human brain

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5:40-5:50	Yojet Sharma	Elevated levels of PIP2 regulate cell-fate and neuronal excitability via non-canonical notch			
5:50-6:00	Surjit Singh Saini	signalling Time of Delamination of Inner Ear Neurons Specifies their Topography and Target			
6:30-7:00 (NCBS Lawn) 7:00	S C Lakhotia	Innervation. On the history of developmental biology research in India Dance Development! and Dinner (N			
7.00)		CBS Lawinj		
7:00-8:00		DAY 2: 22nd Fe Breakfast (NCBS Main Cante	-		
7.00-8.00		Diedkidst (NODS Main Cant	eenj		
		phogenesis. and Dasheri-NCBS (Simulcast) I-Mumbai) and Gaurav Singh (InStem)			
9:35-10:00	Ondine Cleaver	Building and maintaining biological tubes during			
10:00-10:10	Sumit Sen	organogenesis Investigation of mTOR Complex Specific Regulation of Microridge Patterning			
10:10-10:35	Amrutha Swaminathan	Understanding how immune factors regulate the development of stress-			
10:35-11:00	Masatoshi Takeichi	Cell-cell adhesion machinery fundamental to multicellular organization: How did we			
11:00-11:02	Akanksha Pandey	discover it? Rab11 regulates the undifferentiation of adult midgut precursors in the larval midgut of			
11:02-11:04	Anubhav Prakash	Drosophila melanogaster Combination of cadherins and contractility drives order in multi- cell type epithelia			
11:05-11:40)	Break: InStem Atrium			
	Session 6: Cell Biology of Deve Venue: Ectoderm-inStem Chairs; Sachin Kotak (IISc) and A	-			-
11:45-12:10	Anup Padmanabhan	Reciprocal Antagonism between Cell Adhesion and Cell Division Machineries during Embryonic	11:45-12:10	(CCMB) PV Shivaprasad	Histone variant H4.V: a gatekeeper to H4K5Ac marks and salt stress transcriptome
12:10-12:35	Megha Kumar	Development in C. elegans Divide and Develop! Embryonic mitoses and cell fate specification	12:10-12:35		
12:35-1:00	Arnab Mukhopadhyay	Inter-tissue crosstalk that regulates progeny fitness on somatic DNA damage	12:35-1:00	Sunil Laxman	Life without water - building a logic for metabolic organizations that enable
1:00-1:25	Karuna Sampath	"Pin"-ing down germline development	1:00-1:10	Aravind H	Coordinated dynamics of mitochondrial fission and fusion regulators during spermatid development
			1:10-1:20	Uttkarsh Ayyangar	Epidermal-directed metabolic rewiring of macrophages
			1:20-1:22	Anindita Rao	promotes sterile inflammation Investigating a developmentally crucial adipose tissue-derived factor in regulating adult
1:25-1:27	Pavani Hathi	Adenosine deamination primes organizer development in Dictyostelium	1:22-1:24	Shravani	Developing zebrafish epidermis responds to the nutritional cues by regulating
1:30-2.30			(NCBS Lawn) 2:30-3:30		Board Meeting
2.30-4.00	Session 8: Quantitative Approa	ches to Development d Ectoderm-inStem (Simulcast)	2.00-0.00		Simons Centre for Living Systems
4:00-4:25	Prerna Sharma	Sculpting of colloidal membranes through phase transitions			
4:25-4:50	Vijay Krishnamurthy	On the regulation of size and shape by active mechanics			
4:50-5:15	Adrienne Roeder	Stochasticity and robustness in the morphogenesis of			

the morphogenesis of Arabidopsis sepals

5:15-5:40	Thomas Lecuit	Encoding shape with genetics,			
5:40-5:50	Yamini Ravichandran	mechanics and geometry Mechanical induction of			
5:50-6:00	Nikhil Mishra	morphogenesis in Hydra Cell cycle synchronization in the			
6:30-7:00	Surendra Ghaskadbi	zebrafish early embryo Tales from the Frontline: What I think about when I talk about			
		Dev Bio? Quiz Night and Dinner (NCBS L	ours)		
7:00 Onwards			awn		
7:00-8:00		DAY 3: 23rd Feb Breakfast (NCBS Main Cante	-		
.00-0.00		Dieaklast (NODS Main Cante	enj		
	•	pair e) and Dasheri-NCBS (Simulcast) ASR) and Nivedita Chaudhary (InStem)			
9:35-10:00	Deepak Srivastava	Cellular Reprogramming Approaches to Heart Disease			
10:00-10:10	Aishwarya Prakash	Mitochondrial reprogramming regulates blood stem cell emergence during mouse embryogenesis			
0:10-10:35	Chinmoy Patra	Cellular communication network factor 2 induces heart regeneration by modulating			
0:35-11:00	Soumyashree Das	innate immune responses in VegfR2-dependent artery tip extensions build pial collaterals in mice			
1:00-11:02	Shreedha Prabhu	Understanding Mechanisms of Tissue Recovery under Mechanical Stress using			
1:02-11:04	Anu PV	developing Zabrafish Epidermie Unravelling the role of energy producing metabolic pathways in murine hematopoietic			
11:05-11:40)	Break: InStem Atrium			
	Session 10: Disease and Reg Venue: Ectoderm-inStem Chairs: Neha Vyas(St.Johns) ar			Session 11: Aging Venue: Dasheri-NCE Chairs: Dhananjay Ch Sahin Rahman (NII)	IS naturvedi (CCMB) and Sabnam
1:45-12:10			11:45-12:10	Rohan Khadilkar	Genetic modulation of cellular ageing affects stem cell
2:10-12:35	Chetana Sachidanandan	Uncovering novel mechanisms of human developmental disorders using zebrafish models: Rubinstein Taybi	12:10-12:35	Barak Rotblat	homeostasis during Drosophi hematopoiesis How do mammalian and yeas cells survive glucose starvation?
2:35-1:00	Bhavana Muralidharan	Supdrome, a case study Probing the mechanisms of chromatinopathies in brain development using	12:35-1:00	Kalika Prasad	Self Organizing the morphogenesis in plant regeneration
:00-1:10	Yamini Rawal	human in-vitro disease model Functional analysis of neuroblast-specific enhancers of Drosophila Grainyhead gene	1:00-1:10	Bhupendra Kumar	Insights into the molecular mechanism of naturally- occurring age induced-
:10-1:20	Akshara Dubey		1:10-1:20	Kailash Chandra	Investigating the role of AMPI in mammary gland stem cell biology
:20-1:22	Aishwarya Rai	A novel mediator of Fgf8 signaling in development of vertebrate telencephalon	1:20-1:22	Prathamesh Dongre	Asrij/OCIAD1 depletion reduces microglial activation and ameliorates Aβ pathology in an Alzheimer's disease
22-1:24	Varsha NT	Altered cell shape and cell state aids in epithelial fusion in closing chick otic vesicle	1:22-1:24	Juhi Vaishnav	Thyroid hormone insufficienc leads to failure in formation o ventral body wall during the development of domestic chi Gallus domesticus.
1:30-2.30			(NCBS Lawn)		

Venue: Dasheri-NCBS (Live) and Ectoderm-inStem (Simulcast) Chairs: Usha Vijayraghavan (IISc), Mincy Kunjumon (ACTREC)

Bridging scales in Organ Morphogenesis – Lessons from the Heart

4:25-4:50	Akankshi Munjal	Multi-scale feedbacks for robust tissue morphogenesis	
4:50-5:15	Hardik Gala	Branching out to New Roots - Single cell view of development	
5:15-540	Diya Binoy Joseph	Identification of distinct epithelial and mesenchymal factors in the developing bladder and urethra	
5:40-5:50	Sarthak Sahoo	Dynamics of hepatocyte- cholangiocyte cell-fate decisions during liver development and	
5:50-6:00	Krishnan lyer	Cellular compartmentalisation and receptor promiscuity as a strategy for accurate and robust inference of position during	
7:00 Onwards		Dinner (NCBS Lawn)	

DAY 4: 24th February Breakfast (NCBS Main Canteen)

	Session 13: Models of Organogenesis. Venue: Ectoderm-inStem (Live) and Dasheri-NCBS (Simulcast) Chairs: Utapl Nath (IISc) Asha Channakkar (inStem)			
9:35-10:00	Special Talk			
10:00-10:25	Ishwariya Venkatesh	Decoding the Molecular Blueprint of Regeneration in Mammalian CNS Neurons		
10:25-10:50	Oliver Hobert	Building a brain in the gut		
10:50-11:00	Hareesh J	How does network modules inform development of the nervous system, relating neuronal function and position in		
11:00-11:02	Sonu Yadav	the worm connectome? Novel regulatory components of Hoxd complex in zebrafish		
11:02-11:04	Ravina Saini	Epigenetic Inheritance Across Generations through Male Germ-line in Drosophila		

11:05-11:40

7:00

Break: InStem Atrium

melanogaster

	Session 14: Development and Behaviour Venue: Ectoderm-inStem Chairs: Sheeba Vasu (JNCASR) and Atal Vats (NCBS)		Session 15: DoHaD Round Table Venue: Endoderm
11:45-12:10	Jim Truman	Insect metamorphosis and the "two brain problem"	
12:10-12:35	Lynn Riddiford	The evolution of juvenile hormone in insects from an embryonic hormone to the chief controller of metamorphosis.	
12:35-1:00	Poonam Thakur	Factors underlying Parkinson's disease progression	
1:00-1:10	Sohela Sarkar	Beyond survival : The multi- faceted role of HIF1- α in survival, growth and nutrient homeostasis in Drosophila	
1:10-1:20	Tiyasa Roy	Molecular mechanisms of internal time-keeping by memory centers in a social insect	
1:20-1:24	Kangabam Linthoingambi	Reward-driven Appetitive Learning and Memory in Drosophila Larvae: Insights from a candidate neuronal gene, taxi	

1:30-2.30 2:30-4.00	Lunch (NCBS Lawn) Posters (InStem Atrium)		
	Session 16: Development and Evolution		
Venue: Dasheri-NCBS (Live) and Ectoderm-inStem (Simulcast) Chairs: K. VijayRaghavan (NCBS-TIFR) and Neelanjana Ray (NCBS-			
	TIFR)		

4:25-4:50	Claude Desplan	The Generation of neural diversity and its evolution		
4:50-5:15	Marie Manceau	Developmental basis of trends and variation in plumage patterns		
5:15-5:25	Arpan Parichha	β-catenin regulates midline glia that guides corpus callosum formation in mice and humans		
5:25-5:35	Tathagata Biswas	Fish(ing) and the Hi(gh)-C(sea)		
5:	5:40 General Body Meeting and Poster Prizes			
7:00 Onwards	i de la companya de l	Dinner (NCBS Lawn)		