



## Annual Review of Research,

inStem, February 2020

Talks: 150 seater Auditorium, inStem; Posters: Atrium, inStem

Sunday 23 February 645PM: Mixer and Dinner, SAB & Invitees

### DAY 1

### Monday 24<sup>th</sup> February

8:30 onwards	Registration – Faculty, Visitors <i>Auditorium Lobby</i>	
9:15- 9:30AM	Apurva Sarin	Welcome
	<b>Cardiac Theme</b> Chairperson: Jyotsna Dhawan, CCMB	
9:30-10:00AM	Sivaraj Sivaramakrishnan, University of Minnesota Twin Cities, USA. Theme Coordinator, Visiting Faculty, inStem	<i>Dark Side of GPCRs and Protein Kinases: Allosteric Regulation through Intrinsically Disordered Regions</i>
10:00-10:30AM	Dhandapany Perundurairi	<i>Clinical genomics and molecular insights into hypertrophic cardiomyopathy</i>
10:30-11:00AM	Minhaj Sirajuddin	<i>Structure of heart ventricular walls at micron resolution</i>
11:00-11:30AM	REFRESHMENTS	
	<b>TATA Institute for Genetics &amp; Society - Centre at inStem</b> Chairperson: Colin Jamora	
11:30-11:45 AM	Farah Ishtiaq	<i>Landscape genetics: a toolbox for studying vector-borne diseases</i>
11:45- 12:00PM	Sampath Kumar	<i>Genomic structural variants in Indian populations of An. stephensi.</i>
12:00-12:10PM	Q&A for FI and SK talks	
12:10-12:30PM	Bipin Nair, Amrita University School of Biotechnology & TIGS_CI	<i>Combating AMR: Strategies to target MDR Pseudomonas aeruginosa</i>
12:30-1:00PM	Poster Talks - 9	Chairpersons, Thomas van Zanten & Dhananjay Chaturvedi, NCBS
1:00-2:15PM	Lunch for SAB & Invitees (First Floor inStem Canteen)	
2:30-4:00PM	<b>POSTER SESSION-1</b> Atrium	<b>230-345PM</b> PROGRAMME REVIEW by SAB
3:30-4:00PM	HIGH TEA	Second Floor South Wing Meeting Room
	<b>Integrative Chemical Biology</b> Chairperson: Vinothkumar Kutti Raghunath, NCBS	
4:00-4:30PM	Dasaradhi Palakodeti	<i>Diverse roles of tRNAs in stem cells and during regeneration</i>
4:30-5:00PM	Praveen Vemula	<i>Small-molecules mediated repair of gut barrier dysfunction</i>
5:00-5:30PM	S Ramaswamy	<i>Natures solution to breaking a human-made strong Bond</i>
5:30-5:55PM	Gayathri Sadasivam & Neelagandan Kamariah	<i>Targeting the molecular recognition of protein phosphorylation to interrupt intracellular signalling</i>
5:55-6:00PM	Q&A for GS and NK	
6:05-6:45PM	<b>POSTER SESSION-1</b> extended Atrium	
7:00PM	Dinner for SAB & Invitees, (First Floor inStem Canteen)	



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### DAY 2

### Tuesday 25<sup>th</sup> February

Time	Speaker/ event
	<b>Regulation of Cell Fate</b> Chairperson: Sonia Sen, TIGS-Centre at inStem
9:00 - 9:30AM	Jyotsna Dhawan, CCMB Hyderabad <i>Signaling surprises in quiescent myoblasts: a role for the primary cilium</i>
9:30- 10:00 AM	Arvind Ramanathan <i>Lipid metabolism mediated control of the senescent state</i>
10:00-10:30AM	Arjun Guha <i>Regulation of cellular plasticity in Drosophila: How tracheal cells switch from hyperplastic to hypertrophic growth</i>
1030-11.00AM	REFRESHMENTS
11:00-1130AM	Tina Mukherjee <i>Myeloid cells as mobile sensors of animal physiology</i>
11:30-12:00 PM	Sunil Laxman <i>The Wealth of Cells: logic of amino acid supply and demand in a cellular economy</i>
12:00-12:40PM	Poster Talks (12) Chairpersons, Thomas van Zanten & Dhananjay Chaturvedi, NCBS
12:45-2:00PM	Lunch for SAB & Invitees (First Floor inStem Canteen)
<b>2:00-4:00PM</b>	<b>POSTER SESSION-2</b>
	Atrium
3:30-4:00PM	HIGH TEA (Atrium)
	<b>Tissue Inflammation &amp; Homeostasis</b> Chairperson: Dipayan Rudra, Institute for Basic Science, South Korea
4:00-4:30PM	Srikala Raghavan <i>Non-Immune Functions of Resident Skin Macrophages</i>
4:30-5:00PM	Colin Jamora <i>The Molecular Basis of Vascular Defects Driving Tissue Fibrosis</i>
5:05-5:55PM	<b>Plenary Talk-I</b> Chairperson: Sabarinathan Radhakrishnan, NCBS <b>Ashok Venkitaraman</b> , University of Cambridge, UK & Collaborative Science Chair, inStem <b>Insights into human cancer susceptibility from the BRCA2 tumour suppressor</b> <b>Plenary Talk-II</b>
6:10-7:00PM	<b>SAB meetings</b> (Coordinated by Dasaradhi Palakodeti) Students registered for PhD 150 seater Auditorium, inStem ++++ Postdocs 100 seater hall, InStem
7:00PM	DINNER – SAB & Invitees, (First Floor inStem Canteen)



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### DAY 3

### Wednesday 26<sup>th</sup> February

Time	Speaker/ event	
	<b>Brain Development and Disease Mechanisms</b> Chairperson: Upinder Bhalla, NCBS	
9:00-9:30AM	Shona Chattarji, NCBS	<i>Autism and "Astro"logy</i>
9:30-10:00AM	Vivek Benegal, NIMHANS, ADBS	<i>Clinical insights from the ADBS program (Accelerator Program on the Discovery of Brain Disorders using Stem Cells)</i>
10:00-10:30AM	Raghu Padinjat, NCBS, ADBS	<i>Disease in a dish models: insights into the cellular basis of brain disorders</i>
10:30-11:00AM	Bhavana Muralidharan	<i>Chromatin regulation of cortical development in health and disease</i>
11:00-11:30AM	REFRESHMENTS	
	<b>Genetic Interventions for Blood Disorders</b> Chairperson: Dasaradhi Palakodeti	
11:30-12:00PM	Debojyoti Chakraborti, Institute of Genomics & Integrative Biology, Delhi	<i>Joining the dots between precision and personalized medicines</i>
12:00-12:30PM	RV Shaji CSCR-inStem, CMC-Vellore	<i>Lentiviral vector based gene therapy for hematological disorders</i>
12:30-12:42PM	Saravanabhavan Thangavel CSCR-inStem, CMC Vellore	<i>CRISPR-Cas9 based gene editing approaches for gene therapy for hematological disorders</i>
12:42-12:56PM	Mohankumar K. Murugesan CSCR-inStem, CMC Vellore	
12:56- 1:00PM	Q&A for ST and MM	
1:10-2:15PM	Lunch for SAB & Invitees (First Floor inStem Canteen)	
<b>2:30-5:00PM</b>	<b>POSTER SESSION-3</b> Atrium	<b>SCIENTIFIC ADVISORY BOARD MEETING</b> VENUE: BOARD ROOM, INSTEM
4:30-5:00PM	HIGH TEA (Atrium)	
5:00 -5:30PM	POSTERS AWARDS – 150-seater Auditorium	
5:30-6:30PM	<b>Plenary Talk-II</b> Chairperson: Dimple Notalni, NCBS <b>Azim Surani</b> , Wellcome Trust/Cancer Research UK, Gurdon Institute at the University of Cambridge, UK. <b>From genomic imprinting to the human germline and development</b>	
6:30-6:35PM	Vote of thanks	

Meeting Closes