Mechanical Forces in Cell Biology Mechanics &Information at the scale of cells &tissues October 4-6, 2016

Venue: National Centre for Biological Sciences (Dasheri)

October 4, 2016, Tuesday

14:00 - 16:50 Registration 16:00 - 16:50 Welcome mixer

Session 1

16:50 - 17:00 Welcome Address

Raghu Padinjat

Chair:- Raghu Padinjat

National Centre for Biological Sciences, Bangalore

17:00 – 18:00 Michael Sheetz

Rigidity Sensing Contractions Inhibit Transformed Growth

18:00 - 18:30 **Discussion**

18:30 onwards Conference Dinner

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October 5, 2016, Wednesday

Session 2

Chair:- Mukund Thattai	
National Centre for Biological Sciences, 1	Bangalore

09:00 - 09:45	Frank Julicher Dynamics and mechanics of developing ephithelia
09:45 - 10:15	Vijay KumarK. A mechanism of biological pattern formation through mechanochemical feedback
10:15 - 11:00	Joachim Spatz Mechanotransduction in Collective Cell Migration
11:00 - 11:15	Discussion
11:15 - 11:30	Tea/Coffee Break

Session 3

Chair:- Srikanth Sastry,

Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

11:30 - 12:00	Alexander Bershadsky Self-organization of actomyosin cytoskeleton and cell morphogenesis
12:30 - 12:30	Sriram Ramaswamy Confined active fluids within and without the cell
12:30 - 13:00	Gautam Menon Nuclear Architecture and Active Matter
13:00 - 13:15	Discussion
13:15 - 14:15	Lunch
14:15 – 16:00	Poster Session

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Session 4

Chair:-Namrata Gundiah Indian Institute of Science, Bangalore

16:00 - 16:45	Daniel Kiehart Forces and Their Regulation in Cell Sheet Morphogenesis: Dorsal Closure in Drosophila as a Model System
16:45 – 17:15	Maithreyi Narasimha Exploring the origins of heterogeneity and collectivity in cell behavior during epithelial fusion
17:15 - 17:30	Mandar Inamdar Modeling spatiotemporal velocity and deformation patterns in epithelia during collective cell migration
17:30 - 17:45	Discussion
17:45 : 18:00	Tea/Coffee Break
18:00 - 18:15	Mukesh Kumar Phosphatidic acid and Arf1 regulated kinesin-1 recruitment on hepatocyte lipid droplets to control VLDL secretion
18:15 - 18:30	Vaishnavi Ananthanarayanan Myo1 mediates the anchoring of cortical dynein in fission yeast via phospholipid PI(4,5)P2
18:30 - 19:00	PramodPullarkat Active and passive mechanics of axonal actin cytoskeleton
19:00 onwards	Dinner

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October 6, 2016, Thursday

Session 5

	Session 5
Chair: - ShashiThut	tupalli
	enter for Biological Sciences, Bangalore
Tuttonal O	enter for biological ociences, bungalore
09:00 - 09:45	Masatoshi Takeichi
09.00 - 09.45	
	Cortical contractility regulates polarized epithelial
	architecture
09:45 - 10:15	SrikalaRaghavan
09.4) 10.1)	Role of Mechanical Signaling in Maintaining Stem Cell
	Quiescence in Mouse Skin
	Quiescence in Mouse Skin
10:15 - 10:45	Colin Jamora
	Mechanical and epigenetic regulation of wound-healing
10:45 - 11:15	Maria Garcia-Parajo
.,	The role of nanoclustering and diffusion on integrin
	activation in the immune system
	,
11:15- 11:30	Coffee Break
	Session 6
Chair:- Sandeep Kı	rishna
National Ce	enter for Biological Sciences, Bangalore
11:30 - 12:00	Linda Kenney
	Super-resolution imaging of Salmonella SPI-2 regulation: a
	view from 20 nm to 30,000 feet
	CV Cl l l
12:00 - 12:30	GV Shivashankar
	Nuclear Mechanics of Genome Reprogramming
12:30 - 01:00	Satyajit Mayor
12.30 01.00	Rafts come alive: actively driven organization of membrane
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	components in living cells triggered by Integrin signalling.

Discussions

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13:00 - 14:00 Lunch

14:00 – 16:00 Poster Session

Session 7

Chair:- M K Mathew National Center for Biological Sciences, Bangalore

16:00 - 16:30	Raj Ladher A FGFR1-protocadherin-15 signalling axis is required for inner ear mechanosensory hair cell morphology
16:30 - 17:00	Sabyasachi Rakshit Resolving the structure and force-sensing behavior of cadherin-23
17:00 – 17:15	Richard Morris Signature of mechanosensitive gating
17:15 - 17:30	Manish Singh Kushwah Eps15 homology domain protein 1 (EHD1) catalyses membrane fission by a novel mechanism
17:30 - 17:45	Madan Rao Discussions&Concluding Remarks
18:00 - 18:30	High Tea