

AICBC 2019 Schedule

DAY ONE: December 19, 2019 (Thursday)

07:45-09:15 BREAKFAST

08.00-09.15 **Registration**

09:15-09:55 **Inauguration**

Welcome to the delegates.

Address by Director, IISER Mohali.

Address by Jyotsna Dhawan, President, ISCB.

10:00-10:45 Autism and "Astro"logy: New insights from recordings in human cortical neurons

Sumantra Chattarji, NCBS, Bangalore.

10:45-11:15 TEA

Scientific Session 1

Chairperson: **Subhas C Lakhotia, BHU, Varanasi.**

11:15-11:35 Intracellular trafficking affects cell fate decisions in development and disease

Deepa Subramanyam, NCCS, Pune.

11.38-11:58 Local auxin biosynthesis promotes stem cell differentiation and organogenesis in Arabidopsis shoot apex

Ram K. Yadav, IISER Mohali.

12:01-12:21 Probing mechanisms of autophagy flux by genetic and chemical biology approaches

Ravi Manjithaya, JNCASR, Bangalore.

12:24-12:44 Significance of perinuclear Nonmuscle myosin II found in primary mouse tumorigenic cells

Siddhartha S. Jana, IACS, Kolkata.

12:46-12:56 Role of microtubule polyglutamylation in centrosome stability

Puja Singh, CSIR-CCMB, Hyderabad.

13:00-14:00 LUNCH

14:00-16:30 **Poster Session-1**

16:30-17:00 TEA

Scientific Session 2

Chairperson: **Surendra Ghaskadbi**, ARI, Pune.

17:00-17:20 To grow or not to grow: inhibitory control of axon regeneration by UNC-16/JIP3

Sandhya P. Koushika, TIFR, Mumbai.

17:23-17:43 Bioengineered Human Tissues and Organs: The way forward

Biman B. Mandal, IIT Guwahati.

17:46-18:06 Disruption of sub-nuclear compartment functions: A novel role for RD3 mutations in retinal degeneration

Indumathi Mariappan, LVPEI, Hyderabad.

18:09-18:29 A non-GM approach of protecting edible crops from whitefly and associated viral diseases

Pradhyumna K Singh, CSIR-NBRI, Lucknow.

18:32-18:42 RASSF7 dependent Notch Signaling: A novel role in breast cancer

Lakshmi R Perumalsamy, Sri Ramachandra Institute of Higher Education and Research, Chennai

18:45-18:55 Molecular regulation of centriole assembly and ciliogenesis by mitochondrial porins

Shubhra Majumder, Presidency University, Kolkata.

Technical Talk

19:10-19:25 M/S Carl Zeiss India (Bangalore) Pvt. Ltd

19:30-20:15 **Executive Committee Meeting, ISCB.**

20:15-22:00 DINNER

DAY TWO: December 20, 2019 (Friday)

07:45-09:15 BREAKFAST

Scientific Session 3

Chairperson **Jyotsna Dhawan**, CSIR-CCMB, Hyderabad

09:15-09:35 A novel pyro-phosphodegrogen promotes polyubiquitination and degradation of MYC to regulate cell survival
Rashna Bhandari, CDFD, Hyderabad.

09:38-09:58 The malaria parasite autophagy is non-canonical and essential
Puran S Sijwali, CSIR-CCMB, Hyderabad.

10:01-10:21 Cellular and Sub-Cellular Mechanics during Formation of the Vertebrate Auditory Organ
Raj Ladher, NCBS, Bangalore.

10:24-10:44 Deciphering the mechanism of H2BK120 Monoubiquitination by UBR7 PHD Finger and its implication in breast tumorigenesis
Chandrima Das, SINP, Kolkata.

10.45-11:15 TEA

Panel Discussion 1: Science Communications

11.20-12.10 **Moderator: Jyotsna Dhawan**, CSIR-CCMB, Hyderabad.
Panelists: Archita Bhatta, DST, New Delhi; **T V Jayan**, The Hindu Business Line; **Ratnesh Thakur**, NIPGR, New Delhi.

Students Platform Presentation Session 1

12.15-12:25 Protein Assembly Facilitates Enzyme-independent Serine Pyrophosphorylation by Inositol Pyrophosphates
Aisha Hamid, CDFD, Hyderabad.

12:28-12:38 Alpha-actinin-4 regulates cancer invasiveness via myosin-II re-organization
Amlan Barai, IIT Bombay.

12:41-12:51 Hyper activated ERK1/2 kinase drives autophagy to promote survival of ovarian cancer cells at the onset of chemoresistance
Aniketh Bishnu, ACTREC, Navi Mumbai.

12:54-13:04 Microtubule depolymerization compromises the functionality of Tumor Associated Macrophages: A novel chemotherapeutic approach to modulate tumor microenvironment
Bhawna Deswal, Amity University, Noida.

- 13:07-13:17 CD40 signalling and proliferation potential independently regulate different facets of B cell differentiation
Devi Prasad Vijayashankar, CSIR-CCMB, Hyderabad.
- 13:20-13:30 Regulation of osteoclast function by the small GTPase Arl8b
Gaurav Kumar, IMTECH, Chandigarh.
- 13:35-14:30 LUNCH
- 14:30-17:00 **Poster Session-2**
- 16:30-17:00 TEA

Scientific Session 4

- Chairperson: **A K Bachhawat**, IISER Mohali
- 17:00 -17:20 The dual role of mircoRNA-19b in the developing avian brain
Jonaki Sen, IIT Kanpur.
- 17:23-17:43 FGFR/Heartless as a novel regulator of GPCR signaling mediated by Folded gastrulation
Anuradha Ratnaparkhi, ARI, Pune.
- 17:43-17:53 Deciphering the dynamical nature and origin of serum dependent cell cycle commitment variability in Mammalian cells
Sandip Kar, IIT Bombay.

Dr. Jyotirmoy Das Memorial Lecture

- 18:00-18:40 From carbohydrate to cognition: lessons learned from a rare form of neurodegenerative disorder
Subramaniam Ganesh, IIT Kanpur.
- 18:50-19:50 **General Body Meeting, ISCB.**
- 20:00-22:00 DINNER

DAY THREE: December 21, 2019 (Saturday)

07:30-8:45 BREAKFAST

Scientific Session 5

Chairperson **Pradeep Burma**, DU South campus, Delhi.

09:00-09:20 Imposing the boundary or expanding beyond? A dosage-dependent decision by gradient-expressed transcription factor
Kalika Prasad, IISER Thiruvananthapuram.

09:23-09:43 Interplay between hypoxia-induced signaling pathways and alternative splicing in breast cancer
Sanjeev Shukla, IISER Bhopal.

09:46-10:06 The lean fat Indian fish: a zebrafish model for fatty liver disease reveals new biology
Chetana Sachidanandan, CSIR-IGIB, New Delhi.

10:09-10:19 CircRNA-RCA (circular RNA-rolling circle amplification) method to identify circRNA splice variants
Amaresh C. Panda, ILS, Bhubaneswar.

10.25-10:55 TEA

Students Platform Presentation Session 2

11.00-11:10 The gut microbiota regulates cardiac function by activating an inter-organ signaling network in adult *Drosophila*
Jayati Gera, IISER Mohali.

11:13-11:23 Study of the effect of Wnt antagonism in an in vitro model of Parkinson's disease derived from the human neuroblastoma cell line, SH-SY5Y
Naisarg Gamit, MAHE, Bangalore.

11:26-11:36 Embryo Implantation Involves Hybrid Epithelial to Mesenchymal Transition (EMT)
Nancy Ashary, ICMR NIRRH, Mumbai.

11.39-11:49 Exploring the developmental role of *relish* beyond IMD pathway in *Drosophila* hematopoiesis
Parvathy Ramesh, IISER Mohali.

11:52-12:02 Understanding the role of Norbin in group I metabotropic glutamate receptor trafficking
Prachi Ojha, IISER Mohali.

- 12:05-12:15 Pannexin: a modulator of P2X₇ receptor-mediated calcium influx
Rutambhara Purohit, IIT Madras.
- 12:18-12:28 Investigating the role of SYD-2/Liprin-a in neuronal protein trafficking
Sravanthi SP Nadiminti, TIFR, Mumbai.

Panel Discussion 2 Scientific Integrity & Ethics of Publication

- 12:35-13:15 **Moderator: Rashna Bhandari**, CDFD, Hyderabad.
Panelists: Jyotsna Dhawan, CSIR-CCMB, Hyderabad; **Jonaki Sen**, IIT Kanpur; **Raj Ladher**, NCBS Bangalore; **Ravi Manjithaya**, JNCASR, Bangalore.
- 13:20-14:20 LUNCH

Scientific Session 6

- Chairperson **Bhupendra N Singh**, CSIR-CDRI, Lucknow.
- 14:30-14:50 Unraveling the Molecular Mechanisms of Human Neurological Disorders: *Drosophila* degenerates for a good cause
Mousumi Mutsuddi, BHU, Varanasi.
- 14:53-15:13 Elucidating resource allocation during Flavivirus lifecycle
Rahul Roy, IISc, Bangalore.
- 15:16 -15:36 Novel strategies to mitigate human poly(Q) mediated neurotoxicity in *Drosophila* disease models
Surajit Sarkar, DU South campus, New Delhi.
- 15:40-16:00 **Valedictory Function**
Prize Distribution.
Announcement for the next meeting.
Vote of Thanks.
- 16:00 High Tea and Dispersal.
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