

International Congress of Cell Biology 2018:
a tripartite meeting of ISCB, APOCB and IFCB.
Jan 27th-31st, 2018.

Title: The dynamic cell: From molecules and mechanics to form and function

The International Federation for Cell Biology (IFCB) and the Asian-Pacific Organization for Cell Biology (APOCB) are two primary international cell biology organizations; their mission is to foster cell biology research and societies in countries across the world. The 13th IFCB Congress and the 8th APOCB Congress will be jointly held in Hyderabad, India, along with the 41st annual meeting of the Indian Society of Cell Biology. This meeting also commemorates the 30th anniversary of the APOCB.

This will be the first-ever joint meeting of these two international cell biology organizations, and will see cell biologists from across the world coming together to showcase and discuss their work.

This meeting will bring together scientists from diverse disciplines working in various parts of the world having the common goal of understanding properties of cells and how they function. We aim to create a platform for cell biologists, to have the opportunity of listening to latest discoveries in the field and, sharing results and ideas. It is hoped that this meeting will bridge people to initiate new collaborations.

Sessions on cell biology education, what a career in cell biology means, scientific writing and ethics are also planned. Latest tools available to cell biologists will also be discussed and showcased. The corporate sector that helps cell biology research by manufacturing/distributing equipment and resources, will play an active part in showcasing their latest products. Highlights are mini symposia, and a special session to commemorate the discovery of GPI anchors. It is also proposed to host pre and post-conference satellite meetings in other cities of India.

The Conference will include a full range of academic sessions, plenary lectures, and social/cultural events. We plan to have talks by 60-70 invited speakers. Other researchers will have an opportunity to showcase their work through platform/poster presentations. The meeting especially encourages participation from young researchers. Scientists trained in physical or chemical sciences, but having an interest in understanding the biological cell, are encouraged to participate. The official language of the conference will be English.

The conference will be held at Leonia, a self-contained convention facility with associated accommodation of a variety of types, on the outskirts of the city. Hyderabad is an ancient city (4th largest in India) located in south-central India. It has a rich history with an admixture of diverse cultures. It is famous for its cultural heritage, pearl trading and exotic cuisine, and is also known for its IT/ Pharma & Biotech industries. Weather in January will be very pleasant with temps between 15^oC (low) and 28^oC (high).

India is a member country of the International Federation for Cell Biology, and the Asian-Pacific Organization for Cell Biology and this first joint meeting will be held by Centre for

Cell and Molecular Biology (CCMB), with Dr. Vegesna Radha & Dr. Jyotsna Dhawan as organizing secretaries.

All the information concerning registration, abstract submission and scientific aspects of the Conference will be available shortly on the IFCB/APOCB/ISCB/CCMB webpages.

Contact:

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Broad topics for scientific sessions:

Cell membrane - organization & function
Receptors - Growth factor receptors/ GPCRs/ intracellular/ nuclear receptors
Signalling intermediates
Regulation of and by the cytoskeleton
Nuclear dynamics
Molecular motors and other cellular machines
Intra-cellular traffic/ transport
Post-translational modifications & their regulation
Nuclear matrix, chromatin & the genome
Control by RNA/ non-coding sequences and their functions
Cellular processes in development
Studying cells in 3 and 4 dimensions
Cell fate determinants /Stem cell biology
Organelle biology: Golgi/ primary cilium/centrosome/ mitochondria
Biology of single cell organisms
Microbes & host cell interplay
Microenvironment
Modeling human disease
Metabolic control
Translational cell science

Special topics/ sessions:

GPI anchors (30th anniversary special session)
New methods (single cell biology / novel model systems/ Imaging advances)
Emerging trends in cell biology
Physics and engineering in cell biology
Evolution of cellular functions
Systems biology/ networks in cells
Genome editing and cell biology
Human-animal chimeric embryos
Special sessions on cell biology education/scientific writing /ethics/careers in cell biology