

12th International Congress of Cell Biology

Exploring Cellular Structure and Function

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July 21–25, 2016, Prague, Czech Republic
Prague Congress Centre

KEYNOTE LECTURES

Betzig Eric	Imaging life at high spatiotemporal resolution
Chalfie Martin	Determining neuronal cell fate in <i>C. elegans</i>
Cossart Pascale	What bacteria – in particular <i>Listeria</i> – have learnt to cell biologists
Gall Joseph	Giant chromosomes and deep sequences: what the amphibian oocyte tells us about transcription
Goldman Robert	Intermediate filament networks are systems integrators in mammalian cells
zur Hausen Harald	Bovine milk and meat as risk factors for human diseases
Simons Kai	The dynamic organisation of cell membranes
Walter Peter	From protein folding to cognition: the serendipitous path of discovery

SYMPOSIA LECTURES

Almouzni Geneviève	Shaping chromatin in the nucleus, key architects
Bártek Jiří	Genome integrity maintenance: mechanisms and relevance for cancer and aging
Baumeister Wolfgang	Structural biology in a cellular context
Di Fiore Pier Paolo	The Numb:p53 axis connects asymmetric cell division and tumor suppression in mammary stem cells
Gasser Susan	Heterochromatin and its crucial role in genome maintenance
Grosveld Frank	Transcription and the dynamics of the 3D structure of the genome
Heald Rebecca	Mechanisms of mitosis and size control in <i>Xenopus</i>
Hetzer Martin	How the nuclear membrane controls genome function
Hirokawa Nobutaka	Kinesin superfamily molecular motors, KIFs: from regulation of neuronal functions and development to diseases
Hořejší Václav	Immunoreceptor signaling
Humphries Martin	Regulation of cell adhesion through the cell cycle
Jacobs Howy	Maintenance of mitochondrial fidelity
Leptin Maria	Subcellular and supracellular mechanisms of cell morphogenesis
LeRoith Derek	The role of GH/IGF-I axis in the regulation of glucose metabolism and its disturbances
Lin Haifan	Uniting the genome: multifaceted roles of the Piwi-piRNA pathway in the germline
Martienssen Rob	Epigenetic reprogramming and small RNA
Mayor Satyajit	Active control of cell membrane composition
McKnight Steven	A solid state conceptualization of information transfer from gene to message to protein
Misteli Tom	Deep imaging to see the genome
Nigg Erich	Impact of centrosome aberrations on microcephaly and cancer
Oren Moshe	The fifty shades of p53
Peters Jan-Michael	How cohesin controls sister chromatid cohesion and chromatin structure
Silver Pamela	Designing biology – from basic cell biology to application

Vandenabeele Peter	Role of RIPKs in life and death decisions
Wang Xiaodong	Biochemical pathways of cell death
Watt Fiona	Studying epidermal stem cells at single cell resolution
Yoshimori Tamotsu	Autophagy: its molecular basis and anti-disease function
Zerial Marino	Molecular mechanisms of endosome biogenesis and fusion

SPECIAL LECTURES

Bertuzzi Stefano	The curious incident of the translational dog that didn't bark. Where is cell biology going? Where will a PhD in science take you?
Mattaj Iain	Promoting excellence by choice: EMBL and international life science collaboration

MINISYMPOSIA TOPICS

Cell biology of host-pathogen interactions
Mechanisms of intracellular trafficking
Epigenetic control of cell fate
Microtubule organization in health and disease
Lamins and chromatin during development and ageing
Emerging technologies for cell biology
DNA replication, repair and recombination
Pluripotent stem cells
Chromosome segregation and aneuploidy
Nuclear periphery
Shaping the cell
Host cells and vector borne pathogens
Tissue microenvironment under physiological condition and disease
Neurons meeting glia in the brain plasticity, disease and therapy
Dynamics of the gene expression machinery
Centrioles, centrosomes and cilia: function and dysfunction
Chromatin plasticity and nuclear architecture
Cell adhesion dynamics in tissue organization
Cell biology and nanomedicine
Plant development and adaptation
Non-coding RNAs in health and disease
Structural biology
Cancer cell biology
Cell signalling/Systems and computational biology
Cell biology of metabolic diseases

(Peter Šebo + Pascale Cossart)
(Daniela Corda + Margaret Robinson)
(Guoliang Xu + Petra Hájková)
(Mónica Bettencourt-Dias + Pavel Dráber)
(Roland Foisner + Tomáš Vomastek)
(Alasdair Steven + Stanislav Kmoch)
(Cristina Cardoso + Eva Bártová)
(Alexey Tomilin + Aleš Hampl)
(William Earnshaw + Iain Cheeseman)
(Yosef Gruenbaum + Ohad Medalia)
(Buzz Baum + Tomáš Mazel)
(Libor Grubhoffer + Marshall Bloom)

(Hernandes Carvalho + Karel Smetana Jr.)

(Marko Brankatschk + Miloš Pěkný)
(David Tollervey + Thoru Pederson)

(Jordan Raff + Renata Basto)
(Evi Soutoglou + Eran Meshorer)
(Carlen Niessen + Corinne Albigès-Rizo)
(Gareth Griffiths + Arwyn Jones)
(Jiří Friml + María-Carmen Risueño)
(Claus Azzalin + Štěpánka Vaňáčková)
(Ueli Aebi + Christian Spahn)
(Elias Campo + Marek Trněný)
(Marino Zerial + Philippe Bastiaens)
(Derek LeRoith + Martin Haluzík)

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