

Neuroepigenetics and Neuroepitranscriptomics

24 - 27 Feb 2018 | Cancun, Mexico

Synopsis

Epigenetic mechanisms – including DNA and histone modifications, as well as regulation by non-coding RNAs – have pivotal roles in the nervous system. Aberrant epigenetic regulation also contributes to pathogenesis in various brain disorders. There are a number of recent ground-breaking discoveries of new features of epigenetic marks and regulation that are enriched in the nervous system, leading to an emerging new field of “neuroepigenetics”. In addition, new discoveries of modification of mRNAs and long non-coding RNAs lead to a new field of “epitranscriptomics”.

Key Sessions will cover aspects of:

- Epigenetic mechanisms regulating brain development and stem cells
- Transcriptional and translational regulation
- Neuronal specific splicing
- Brain developmental disorders, aging and neurodegeneration
- Single-cell analysis
- Genome-wide analysis of different DNA and RNA modifications
- 3D epigenome and chromatin topology DNA replication

Important dates

Early Bird	15 Sep 2017
Talk Submission	15 Sep 2017
Poster Submission	08 Dec 2017
Last Chance	08 Dec 2017

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Organisers

Li-Huei Tsai
MIT

Hongjun Song
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Plenary Speakers

Anne Brunet
Stanford University
Andre Fischer
German Centre for
Neurodegenerative Diseases
Michael Greenberg
Harvard University

Chuan He
University of Chicago
Rudolf Jaenisch
Whitehead Institute
Peng Jin
Emory University
Guo-li Ming
Johns Hopkins University

Eric Nestler
The Mount Sinai Hospital
Antonella Riccio
University College London
Daniel Weinberger
Lieber Institute of Brain
Development

Invited Speakers

Angel Barco
Instituto de Neurociencias
Timothy Bredy
Queensland Brain Institute
Alon Chen
Weizmann Institute of
Science
Jesse Gray
Harvard Medical School

Elizabeth Heller
Perelman School of
Medicine
Taekyung Kim
UT Southwestern
Anne Schaefer
Mount Sinai School of
Medicine

Yanhong Shi
City of Hope
Anne West
Duke Institute of Brain
Sciences
Hynek Wichterle
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Heng Zhu
Johns Hopkins University