



EPFL SV – Hong Kong University
of Science & Technology

1st Joint Symposium

March 14–15, 2014 / EPFL / SV Building

“Neuroscience meets cell
and molecular biology”

2 days / 4 sessions / 18 speakers

Chaired by Professors Carmen Sandi, Daniel Constam,
Bart Deplancke and Ralf Schneggenburger

Registration is free but mandatory on:
bmi.epfl.ch/jointsymposium2014

DAY 1 / FRIDAY MARCH 14

SESSION 1

TRANSCRIPTION

Chaired by Bart Deplancke

- 9:00 **Welcome**
- 9:05-9:30 **Toyotaka Ishibashi** / Division of Life Science, HKUST
"Transcription elongation dynamics of RNA polymerase II one molecule at a time"
- 9:30-9:55 **David Suter** / Institute of Bioengineering, SV-EPFL
"Transcription at the single cell level"
- 9:55-10:20 **Bart Deplancke** / Institute of Bioengineering, SV-EPFL
"A large-scale transcription factor screen identifies ZEB1 as a key transcriptional component of the adipogenic regulatory network"

- 10:20-10:45 **Coffee break**

SESSION 2

STEM CELL BIOLOGY / TISSUE MORPHOGENESIS

Chaired by Daniel Constam

- 10:45-11:10 **Zhenguo Wu** / Division of Life Science, HKUST
"The role of Stat3 in muscle stem cells"
- 11:10-11:35 **Tom Hiu Tung Cheung** / Division of Life Science, HKUST
"Molecular regulation of stem cell quiescence"
- 11:35-12:00 **Daniel Constam** / Swiss Institute for Experimental Cancer Research, SV-EPFL
"Imaging and function of proprotein convertases in preimplantation development"
- 12:00-12:25 **Matthias Lutolf** / Institute of Bioengineering, SV-EPFL
"A low mitochondrial membrane potential marks self-renewing hematopoietic stem cells"
- 12:25-12:50 **Yan Yan** / Division of Life Science, HKUST
"Regulation of mechanical signals during tissue morphogenesis"

- 12:50-14:00 **Lunch**

SESSION 3

PROTEIN SORTING / TRAFFICKING / CELL DIVISION

Chaired by Ralf Schneggenburger

- 14:00-14:25 **David K. Banfield** / Division of Life Science, HKUST
"Mechanisms of protein retention and sorting in the Golgi"
- 14:25-14:50 **Jun Xia** / Division of Life Science, HKUST
"Role of PICK1-ICA69 BAR domain complexes in protein trafficking: Mechanism and Disease"
- 14:50-15:15 **Robert Z. Qi** / Division of Life Science, HKUST
"Microtubule organization and regulation: The ends are the beginning"
- 15:15-15:40 **Pierre Gönczy** / Swiss Institute for Experimental Cancer Research, SV-EPFL
"Mechanisms of centriole assembly"

- 15:40-17:30 **Visit of SV core facilities**

- 19:00 **Speaker's Dinner at Rolex Learning Center**

DAY 2 / SATURDAY MARCH 15

SESSION 4

BRAIN DISORDERS – FROM MECHANISMS TO TREATMENT

Chaired by Carmen Sandi

- 9:00-9:30 **Nancy Yuk-Yu IP** / Division of Life Science, HKUST
"From understanding neural plasticity to drug discovery for neurodegenerative diseases"
- 9:30-10:00 **Patrick Fraering** / Brain Mind Institute, SV-EPFL
"Notch-sparing modulation of Gamma-secretase for the safe treatment of Alzheimer's disease"
- 10:00-10:30 **Bernard Schneider** / Brain Mind Institute, SV-EPFL
"Gene-based therapeutic approaches for neurodegenerative diseases"
- 10:30-11:00 **Coffee break**
- 11:00-11:30 **Karl Herrup** / Division of Life Science, HKUST
"Cell cycle control in the adult neuron - and the penalty of failure"
- 11:30-12:00 **Johannes Gräff** / Brain Mind Institute, SV-EPFL
"Epigenetic priming of memory reconsolidating to attenuate remote fear memories"
- 12:00-12:30 **Ralf Schneggenburger** / Brain Mind Institute, SV-EPFL
"Role of BMP signaling in synapse growth and synapse plasticity in the CNS"

Information and registration on:
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