

2015 **Oct 29** 1 pm

C201 Aoba Science Hall
Kita-Aobayama Campus
Tohoku Univ.



Dr Joel Richter

BIOGRAPHICAL NOTE:

1974
BS, Indiana University
1979
PhD. Arizona State University
1980-1987
Postdoc, Purdue University
Principal Scientist, Worcester
Foundation for Biomedical Research
1998~
Professor, University
Massachusetts Medical School

RNA regulation and Neuroscience

Session I Chair Asako Sugimoto

13:00-13:30 Toshifumi Inada (Tohoku Univ)

Mechanisms of co-translational mRNA and protein quality controls

13:30-14:00 Motomasa Tanaka (RIKEN BSI)

Molecular mechanism of impaired dendritic local translation in neuropsychiatric disorders

14:00-14:30 Tetsuro Hirose (Hokkaido Univ)

Exploration of the functional code for architectural long noncoding RNAs

14:30-14:55 Yuichiro Mishima (University of Tokyo)

Codon optimality and 3'UTR length determine maternal mRNA stability in zebrafish

Session II Chair Motomasa Tanaka

15:10-15:35 Sinsuke Niwa (Tohoku Univ.)

The regulation of axonal transport and synaptic formation in *C. elegans*

15:35-16:00 Norifumi Shioda (Tohoku Univ.)

Molecular mechanisms of synapse pathology in DNA/RNA G-quadruplex

16:00-16:25 Yoshiho Ikeuchi (Univ. of Tokyo)

Regulation of neuronal morphogenesis by intellectual disability proteins

16:25-16:50 Kentaro Nagaoka (Tokyo University of Agriculture and Technology)

CPEB1 mediates epithelial-mesenchymal transition and breast cancer metastasis

16:50-17:15 Tsuyoshi Udagawa (Tohoku Univ.)

FUS regulates synaptic functions and ALS/FTLD-associated behaviors via GluA1 mRNA stabilization

17:15-17:45 Mitsuyuki Matsumoto (Astellas Pharma Inc)

Genetics- & Pathophysiology-based Drug Discovery for Psychiatric Disorders

Session III (Special Lecture) Chair Toshifumi Inada

18:00-18:45 Joel Richter (UMASS)

Translational Control of Neurologic Disease

19:00~ Social gathering

Ribosome

Polyadenylation

mRNA localization

Neurodegeneration

Translational control

mRNA quality control

Ubiquitination

Long noncoding RNA

Organized by
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