

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  
Toshifumi Inada

[tinada@m.tohoku.ac.jp](mailto:tinada@m.tohoku.ac.jp)

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