

**The 7th BRI International Symposium 2017**

**Alzheimer's disease: Narrowing the gap between basic science and clinical application**

**March 10 (Fri) 1pm – March 11 (Sat) 12:40pm**  
**Center for Integrated Human Brain Science (6F)**  
**脳研究所 統合脳機能研究センター 6階セミナーホール**  
**Brain Research Institute, Niigata University**

**March 10 (Fri)**

13:00 -13:05 **Opening remarks** (Osamu Onodera, Vice-director of BRI)

**Session I** (Chaired by Takeshi Ikeuchi, Naoyuki Sato)

13:05-13:35 **Toshiharu Suzuki (Hokkaido University)**  
Function of Alcadin in neurons and the utilization of its  $\gamma$ -secretase product peptide p3-Alc in diagnosis and therapy of Alzheimer's disease

13:35-14:05 **Masaki Nishimura (Shiga University of Medical Science)**  
Implication of ILEI/FAM3C in the pathogenesis of Alzheimer's disease

**Special Lecture 1** (Chaired by Kensaku Kasuga)

14:05-14:50 **Edward H Koo (University of California, San Diego)**  
Targeting APP and tau in mice: Can we make a better mouse to learn about synaptic injury?

14:50-15:05 Coffee break

**Session II** (Chaired by Hironaka Igarashi, Yuji Suzuki)

15:05-15:35 **Mitsunori Matsumae (Tokai University)**  
Research into the physiology of cerebrospinal fluid reaches a new horizon – Intimate exchange between cerebrospinal fluid and interstitial fluid may contribute to maintenance of homeostasis in the central nervous system -

15:35-16:05 **Vincent J Huber (BRI, Niigata University)**  
Channeling water: The why and how of APQ4 modulators

**Special Lecture 2** (Chaired by Hironaka Igarashi)

16:05-16:50 **Jeffrey Iliff (Oregon Health & Science University)**  
Impairment of glymphatic function in the aging brain and Alzheimer's disease

17:00 - 18:00 **Poster Session**

19:00 – Offsite meeting (Welcome banquet)

## March 11 (Sat)

### Session III (Chaired by Toshiharu Suzuki, Masaki Nishimura)

9:00-9:30 **Naoyuki Sato (National Center for Geriatrics and Gerontology)**

Bidirectional interaction between diabetes and Alzheimer's disease

9:30-10:00 **Taisuke Tomita (The University of Tokyo)**

Aberrant proteolytic processing and therapeutic strategies in Alzheimer disease

10:00-10:30 **Masayasu Okochi (Osaka University)**

Plasma APL1 $\beta$ 28, a surrogate marker for brain A $\beta$ 42 generation, and Alzheimer pathology

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10:30-10:45 Coffee break

### Special Lecture 3 (Chaired by Takeshi Ikeuchi)

10:45-11:30 **Kun Ho Lee (National Research Center for Dementia, Korea)**

Prediction of Alzheimer's disease based on polygenic risk factors and imaging genetics

### Session IV (Chaired by Taisuke Tomita, Masayasu Okochi)

11:30-12:00 **Yasumichi Arai (Keio University)**

Supercentenarians as a model for successful brain aging

12:00-12:30 **Atsushi Iwata (The University of Tokyo)**

Neuron-specific methylome analysis reveals epigenetic regulation and tau-related dysfunction of BRCA1 in Alzheimer's disease

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12:30- **Closing remarks** (Hiroyuki Nawa, Director of BRI)

Symposium office

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