

## **Tau Meeting 2024 Program @ Shiga University of Medical Science**

### **Day 1: August 23 (Friday)**

**13:00-13:05** Opening Remarks (Akihiko Takashima)

**13:05-13:10** Announcements from the Secretariat (Shinsuke Ishigaki)

#### **Session 1 (Chair: Shinsuke Ishigaki)** - Presentation 18 minutes + Q&A 7 minutes

**13:10-13:35** E3 ligase praja1 mediates ubiquitination and degradation of Microtubule-associated protein Tau

- Shiho Aoki, Waseda University of Advanced Science and Engineering

**13:35-14:00** Establishing a hiPSC-derived neuron Tau aggregation model and recording neuronal activity

- Naoki Kato, Waseda University

**14:00-14:25** Tau strain-typing and anti-aggregation effect of artificial Tau mutant

- Shotaro Shimonaka, Tokyo Metropolitan Institute of Medical Science

(Break 15 minutes)

#### **Session 2 (Chair: Tomohiro Miyasaka)** - Presentation 18 minutes + Q&A 7 minutes

**14:40-15:05** In Vivo Microdialysis Unveils the Dynamics of Brain Extracellular Fluids: Changes in Seed-Competent Tau and Proteome Associated with Tau Pathology

- Itaru Nishida, University of Tokyo

**15:05-15:30** Sleep-wake body temperature regulates tau secretion in mice and correlates with tau in cerebrospinal fluid and plasma in humans

- Emmanuel PLANEL, Laval University

**15:30-15:55** A Novel Tauopathy Model Mimicking Molecular and Spatial Aspects of Human Tau Pathology

- Rin Yanai, National Institutes for Quantum Science and Technology

**15:55-16:20** Impact of tau accumulation on functional brain network for spatial navigation

- Riki Koike, Gakushuin University

(Break 15 minutes)

**Session 3 (Chair: Naruhiko Sahara)** - Presentation 12 minutes + Q&A 3 minutes

**16:35-16:50** DNA double-strand break repair defects and tau pathology

- Megumi Asada, Shiga University of Medical Science

**16:50-17:05** Abnormal behavior and glial response in animal models of tau pathology

- Liu Yue, Nagoya University

**Day 2: August 24 (Saturday)**

**Session 4 (Chair: Sumihiro Maeda)** - Presentation 18 minutes + Q&A 7 minutes

**9:00-9:25** Inducing Different Forms of Tau Using Optogenetics

- Tomoya Uchida, Waseda University

**9:25-9:50** Aggregation and intracellular changes induced by tau manipulation

- Yoshiyuki Soeda, Gakushuin University

**9:50-10:15** Degradation of Tau aggregates by autophagy induction

- Gen Matsumoto, Osaka Metropolitan University

**10:15-10:40** Age-related metabolic changes enhance tau-induced neurodegeneration

- Kanae Ando, Tokyo Metropolitan University

**10:40-11:05** Aberrant cortical activity associated with behavior abnormalities in rTg4510 mouse

- Junya Hirokawa, National Institutes for Quantum Science and Technology

(Break 10 minutes)

**Session 5 (Chair: Yoshiyuki Soeda)** - Presentation 12 minutes + Q&A 3 minutes

**11:15-11:30** Tau interactome analysis using MAPT knock-in mice

- Shoko Hashimoto, Shiga University of Medical Science

**11:30-11:45** Cryo-EM analysis of tau filaments from a case of tauopathy with VCP mutation

- Masato Hasegawa and Shin-ishi Hisanaga, Tokyo Metropolitan Institute of Medical Science

**11:45-12:00** The effect of lansoprazole on tau aggregation

- Yumiko Motoi, Juntendo University School of Medicine

**12:00-12:15** Exploratory study on factors affecting the formation of tau pathology in the mouse genetic background

- Daijiro Yanagisawa, Shiga University of Medical Science

**12:15** Closing Remarks (Akihiko Takashima)