

## Thursday, November 16 (Day 1)

8:30-9:30 Registration

9:30-9:40 Opening Remarks

### **SESSION I: Gene Expression in Disease and Aging**

Chair: Harukazu SUZUKI (RIKEN), Carsten DAUB (Karolinska Institutet, RIKEN)

9:40-10:05 Spatial transcriptomics in neurodegenerative disease  
Joakim LUNDEBERG (KTH Royal Institute of Technology/SciLifeLab)

10:05-10:30 Transcriptional control of human embryo genome activation yields clues for reprogramming  
Juha KERE (KI)

10:30-10:55 RIKEN Ageing Resource Project: Of Mice and Super-centenarian Men  
Aki MINODA (RIKEN)

10:55-11:20 Losing chromosome Y in leukocytes matters!  
Jan DUMANSKI (Uppsala U./SciLifeLab)

---

11:30-12:30 *Lunch Break/Poster Viewing*

---

### **SESSION II: Neural Function, Disease and Therapy**

Chair: Yasuhide FURUTA (RIKEN)

12:30-12:55 Molecular and neural circuit mechanisms underlying stress and resilience  
Tomoyuki FURUYASHIKI (Kobe U.)

12:55-13:20 Brain Degeneration caused by abnormal Calcium Signaling  
Katsuhiko MIKOSHIBA (RIKEN)

13:20-13:45 Nanomedicine for infection and neuroscience  
Agneta RICHTER-DAHLFORS (KI)

13:45-14:10 iPS-based Regenerative Medicine- Retinal Diseases  
Masayo TAKAHASHI (RIKEN)

14:10-14:35 Stem cell-based therapy for Parkinson's disease  
Jun TAKAHASHI (CiRA, Kyoto U.)

---

14:35-16:00

***Poster Presentation / Coffee Break***

---

**SESSION III: Molecular Aspects of Health, Disease and Aging**

Chair: Kazuhiko TANZAWA (RIKEN)

16:00-16:25 Ageing-related alteration by the changing of murine intestinal environment  
Naoko SATOH (RIKEN)

16:25-16:50 Structures and Functions of Misfolded Alzheimer's Amyloid-beta: Solid-state NMR studies  
Yoshitaka ISHII (Tokyo Institute of Technology/RIKEN)

16:50-17:15 Precision systems cancer medicine  
Olli KALLIONIEMI (SciLifeLab)

**KEYNOTE LECTURE**

Chair: Yasuyoshi WATANABE (RIKEN)

17:15-18:15 Lessons from yeast -autophagy as a cellular recycling system-  
Yoshinori OHSUMI (Tokyo Institute of Technology)

---

18:30

***MIXER***

***Place: RIKEN, Integrated Innovation Building (IIB) 6F\****

---

\*Integrated Innovation Building (IIB)

Nearest station: Medical Center Station on the Port Liner line/最寄り駅：ポータルライナー「医療センター駅」

A 3-minute walk from the station via the overpass/医療センター駅より、陸橋を利用し徒歩 3 分

**Friday, November 17 (Day 2)**

**SESSION IV: Visualizing Health, Disease and Aging**

Chair: Yosky KATAOKA (RIKEN), Hidefumi MUKAI (RIKEN)

9:30-9:50 Advanced optical noninvasive sensing technology for health science  
Satoshi WADA (RIKEN)

9:50-10:10 Translational PET Neuromaging and Radioligand Development  
Christer HALLDIN (KI)

10:10-10:30 Neuroscience of primate brain evolution  
Atsushi IRIKI (RIKEN)

- 10:30-10:50 Primate Brain Connectomics using Cutting-edge MRI and PET Technologies  
Takuya HAYASHI (RIKEN)
- 10:50-11:10 Genetic, environmental and age effects on human brain neurotransmission  
Lars FARDE (KI)
- 11:10-11:30 Precision Health/Medicine with Integrated Multi-modal Imaging Technologies  
Yasuyoshi WATANABE (RIKEN)

---

11:40-12:45 ***Lunch Break/Poster Viewing***

---

**SESSION V: Molecular Network Control**

Chair: Kensaku SAKAMOTO (RIKEN)

- 12:45-12:55 Introduction  
Kensaku SAKAMOTO (RIKEN)
- 12:55-13:15 Epigenetic regulation of acute myeloid leukemia  
Andreas LENNARTSSON (KI)
- 13:15-13:35 Transcriptional response at promoters and enhancers after drug treatment  
Erik ARNER (RIKEN)
- 13:35-13:55 Peptide engineering for therapeutic applications  
Shunsuke TAGAMI (RIKEN)
- 13:55-14:15 Structure-functional analysis of novel thiazole-oxazole containing antibiotic peptides and molecular machines involved in their synthesis  
Konstantin SEVERINOV (Skolkovo Institute of Science and Technology/Rutgers U.)
- 14:15-14:35 Advanced drug delivery systems for medical innovation  
Hidefumi MUKAI (RIKEN)
- 14:35-14:55 Peptide-based antitumor technology using tumor-homing CPPs  
Eisaku KONDO (Niigata U.)
- 14:55-15:05 Closing Remarks