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:ポートライナー「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)
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<tr>
<td>10:30-10:50</td>
<td>Primate Brain Connectomics using Cutting-edge MRI and PET Technologies</td>
<td>Takuya HAYASHI (RIKEN)</td>
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<td>10:50-11:10</td>
<td>Genetic, environmental and age effects on human brain neurotransmission</td>
<td>Lars FARDE (KI)</td>
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<td>11:10-11:30</td>
<td>Precision Health/Medicine with Integrated Multi-modal Imaging Technologies</td>
<td>Yasuyoshi WATANABE (RIKEN)</td>
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<td>11:40-12:45</td>
<td>Lunch Break/Poster Viewing</td>
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**SESSION V: Molecular Network Control**  
Chair: Kensaku SAKAMOTO (RIKEN)

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