

Program for The 11th RIKEN-KI-SciLifeLab Symposium :
Multimodal data integration in multi-omics, imaging, and medical data

Date : October 1st, 2025 **Venue :** RIKEN Yokohama Campus, Lecture hall **Organizers :** Karolinska Institute / SciLifeLab / RIKEN (IMS,BDR,CBS)

Time	Activity	Presenter/Chair
8:30 - 9:00	<i>Registration</i>	
<i>Symposium opening</i>		<i>Chair: Dr. Chung Chau Hon RIKEN IMS</i>
9:00 - 9:05	Opening remarks by RIKEN IMS	Dr. Masayuki Amagai <i>RIKEN IMS, Director</i>
9:05 - 9:10	Opening remarks by SciLifeLab	Dr. Jan Ellenberg <i>SciLifeLab, Director</i>
<i>Section 1</i>		<i>Chair: Dr. Katsuyuki Shiroguchi RIKEN BDR</i>
9:10 - 9:40	Imaging Protein Networks and Genome Structure Inside Human Cells	Dr. Jan Ellenberg <i>SciLifeLab, Director</i>
9:40 - 10:10	Multimodal Integration of pH-Resolved Microenvironmental Imaging and Transcriptomic Profiling to Advance Skin Barrier Science	Dr. Masayuki Amagai <i>RIKEN IMS, Director</i>
10:10 - 10:35	Decoding the Molecular Design of Skin	Dr. Maria Kasper <i>Karolinska Institutet, Associate Professor</i>
10:35 - 11:00	<i>Coffee Break (25 min)</i>	
<i>Section 2</i>		<i>Chair: Dr. Magnus Boman Karolinska Institutet</i>
11:00 - 11:25	Predicting Cell-type Specific Gene Expression and Epigenome Activity From Genomic Sequences Across the Tree of Life	Dr. Chung Chau Hon <i>RIKEN IMS, Team director</i>
11:25 - 11:50	Integrating cellular-level information from Gene Expression and Literature Data	Dr. Haruka Ozaki <i>RIKEN BDR, Team director</i>
<i>Section 3</i>		<i>Chair: Dr. Kondo Takefumi RIKEN BDR</i>
11:50 - 12:15	Statistical Genetics in Population-, Individual-, and Single-cell Resolutions	Dr. Yukinori Okada <i>RIKEN IMS, Team director</i>
12:15 - 12:40	Multi-omics Data Integration to Improve the Power of Subgrouping of Complex Inflammatory Diseases: Examples from Chronic Obstructive Lung Diseases	Dr. Åsa Wheelock <i>Karolinska Institutet, Associate Professor</i>
12:40 - 13:05	Molecular and Functional Dissection using CaMPARI-seq reveals the Neuronal Organization for Dissociating Optic Flow-Dependent Behaviors	Dr. Fumi Kubo <i>RIKEN CBS, Team director</i>
13:05 - 14:35	<i>Group photo & Lunch Break (90 mins)</i>	
<i>Section 4</i>		<i>Chair: Dr. Carsten Daub Karolinska Institutet/SciLifeLab</i>
14:35 - 15:00	Towards a Cross-Species Understanding of Organ Morphogenetic Mechanisms	Dr. Yoshihiro Morishita <i>RIKEN BDR, Team director</i>
15:00 - 15:25	Location matters: mapping immune cell clonal dynamics in cancer	Dr. Camilla Engblom <i>Karolinska Institutet, Assistant Professor</i>
15:25 - 15:50	Cellular and molecular fine mapping in single-cell data pinpoints new immunopathology of systemic lupus erythematosus	Dr. Masahiro Nakano <i>RIKEN IMS, Postdoctoral Researcher</i>
15:50 - 16:15	<i>Coffee Break (25 mins)</i>	
<i>Section 5</i>		<i>Chair: Dr. Chung Chau Hon RIKEN IMS</i>
16:15 - 16:40	Understanding Immune System Variation Through the Lens of Genetic Autoimmunity Risk	Dr. Kazuyoshi Ishigaki <i>RIKEN IMS, Team director</i>
16:40 - 17:05	Integrating Spatial Transcriptomics and corresponding tissue section imaging data for breast cancer research	Dr. Carsten Daub <i>Karolinska Institutet/SciLifeLab, Associate Professor</i>
17:05 - 17:30	Coordination of Morphogenesis and Cell Fate Determination in Development	Dr. Takefumi Kondo <i>RIKEN BDR, Team director</i>
<i>Symposium closing</i>		<i>Chair: Dr. Harukazu Suzuki RIKEN IMS</i>
17:30 - 17:33	Closing remarks by RIKEN BDR	Dr. Tomoya Kitajima <i>RIKEN BDR, Deputy Director</i>
17:33 - 17:35	Closing remarks by Organizers	Organizing committee representatives