

# The 9th RIKEN-KI-SciLifeLab Symposium : *Data driven multi-omics integration in medical life sciences*

**Date:** 2023-10-18 (Thursday) **Venue:** RIKEN IMS (Koryuto hall, Main Office Bld.1F, Yokohama RIKEN), **Organizers:** KI / RIKEN / SciLifeLab

9:00 - 9:30	<b>Registration</b>	
	<b>Symposium opening</b>	<i>Chair: Dr. Carsten Daub, Dr. Chung-Chau Hon</i>
9:30 - 9:35	Opening remarks by <b>SciLifeLab</b>	<b>Dr. Olli Kallioniemi *</b> <i>Director, SciLifeLab, Sweden</i>
9:35 - 9:40	Opening remarks by <b>RIKEN</b>	<b>Dr. Kohei Miyazono **</b> <i>Executive Director, RIKEN, Japan</i>
9:40 - 9:45	Opening remarks by <b>Karolinska Institute</b>	<b>Dr. Annika Östman Wernerson *</b> <i>President, Karolinska Institute, Sweden</i>
	<b>Section 1: Metabolomics-centric integration</b>	<i>Chair: Dr. Katsuyuki Yugi, Dr. Chung-Chau Hon</i>
9:45 - 10:20	Bridging the gap between SNPs and traits/diseases with trans-omic networks	<b>Dr. Katsuyuki Yugi</b> <i>RIKEN IMS, Japan</i>
10:20 - 10:55	Metabolomics as a starter for multiomics data integration	<b>Dr. Hiroshi Tsugawa</b> <i>RIKEN IMS, Japan</i>
10:55 - 11:30	Integrative Molecular Phenotyping – a case of the right needle in the right haystack	<b>Dr. Craig Wheelock</b> <i>Karolinska Institute, Sweden</i>
11:30 - 11:45	<b>Coffee Break (15 min)</b>	
	<b>Section 2: Transcriptomic-centric integration</b>	<i>Chair: Dr. Chung-Chau Hon, Dr. Katsuyuki Yugi</i>
11:45 - 12:20	Large-scale transcriptome and eQTL analysis to reveal the pathogenesis of systemic lupus erythematosus	<b>Dr. Masahiro Nakano</b> <i>RIKEN IMS, Japan</i>
12:20 - 12:55	Spatial Transcriptomics data integration with image classification and single cell transcriptomics	<b>Dr. Carsten Daub</b> <i>Karolinska Institute/SciLifeLab, Sweden</i>
12:55 - 13:55	<b>photo shooting time and Lunch Break (60 mins)</b>	
	<b>Section 3: Single-cell genomics-centric integration</b>	<i>Chair: Dr. Carsten Daub, Dr. Chung-Chau Hon</i>
13:55 - 14:30	A single-cell atlas of transcribed cis-regulatory elements unveiled disease associated cell-types and gene programs	<b>Dr. Chung-Chau Hon</b> <i>RIKEN IMS, Japan</i>
14:30 - 15:05	Resolving immune - structural cell interplay in complex diseases with multi-omics approaches	<b>Dr. Lea Mikkola</b> <i>InFLAMES Research Flagship Center, University of Turku, Finland</i>
15:05 - 15:40	An atlas of transcribed enhancers across helper T cell diversity for decoding human diseases	<b>Dr. Akiko Oguchi</b> <i>RIKEN IMS, Japan</i>
15:40 - 15:55	<b>Coffee Break (15 mins)</b>	
	<b>Section 4: Artificial intelligence and precision medicines</b>	<i>Chair: Dr. Carsten Daub, Dr. Chung-Chau Hon</i>
15:55 - 16:30	Radiomics	<b>Dr. Fehmi Ben Abdesslem</b> <i>Karolinska Institute, Sweden</i>
16:30 - 17:05	Embryonic genome activation: a multi-omic view	<b>Dr. Juha Kere</b> <i>Karolinska Institute, Sweden</i>
	<b>Symposium closing</b>	
17:05 - 17:10	Closing remarks by RIKEN IMS	<b>Dr. Kazuhiko Yamamoto</b> <i>Director, RIKEN IMS, Japan</i>
17:10 - 18:00	<b>Scientific exchange session / Doctoral Course Ceremony</b> <i>1F Cafe space (with finger food and drinks)</i>	
18:00 - 18:05	Closing remarks by Doctoral Course Directors	<b>Dr. Carsten Daub and Dr. Chung-Chau Hon</b>
18:30 - 20:00	<b>Official dinner for speakers</b> <i>Invited persons only</i>	

\* via video recording

\*\* via Zoom

(As of Oct 11th, 2023)