

The 6th RIKEN-KI-SciLifeLab Symposium: Biomedical Data for Artificial Intelligence

AGENDA

Day 1: Presentation

Session1			Title	Speakers
9:30	–	9:40	Welcome (IMS/Scilifelab Director)	Piero Carninci
9:40	–	10:00	Presentation of the 2019 symposium goals and structure	Magnus Boman
10:00	–	10:30	Introduction to AI in Life Sciences	Mikael Huss

Topics: Match Life Science challenges to AI interests / Data sets for developing AI analysis tools for Life Sciences

10:30	–	10:45	Epistasis analysis from genome-scale population-wide sequence data	Erik Aurell
10:45	–	11:00	Data-driven knowledge discovery with machine learning	Eiryō Kawakami
11:00	–	11:15	Trans-omics: integration of multiple omic data on the basis of reaction kinetics	Katsuyuki Yugi
11:15	–	11:45	Coffee break	
11:45	–	12:00		Aleksej Zelezniak
12:00	–	12:15	Identification of biomarkers for adipose tissue inflammation by AI	Yibo Wu
12:15			(Photo time)	
12:15	–	13:30	Lunch Discussion (for Speakers & Organizers)	

Session 2

13:30	–	13:45	Cell heterogeneity in a population -what can we investigate by deep single cell RNA-sequencing?	Hideyuki Yoshida
13:45	–	14:00	Epigenetic regulation of acute myeloid leukemia	Andreas Lennartsson
14:00	–	14:15	Artificial intelligence on mouse behavior analysis	Keiichiro Suzuki
14:15	–	14:30	Applications of natural language processing methods using routine healthcare data	Sumithra Velupillai
14:30	–	14:45	Learn genomics from AI for interpreting GWAS findings	Masaru Koido
14:45	–	15:15	Coffee break	
15:15	–	15:30	How are the functions of Zinc Finger domains in Transcription Factors regulated?	Ichiro Taniuchi
15:30	–	15:45	Artificial intelligence to discover horizontally-acquired sequences in human genomes	Nicholas Parrish
15:45	–	16:00	Artificial Intelligence aided Deep Phenotyping	Kazuhiro Sakurada
16:00	–	16:15	Deep analysis of images from ultra-microstructural microscopy using machine learning	Yasuhiro Murakawa
16:15	–	16:30	The SciLifeLab Data Centre	Johan Rung and Shuichi Onami
16:30	–	17:00	Day1 wrap up	Erik Arner ,Takaharu Okada, Magnus Boman, Casten Daub

Day 2: Workshop

Program starts				
9:30	–	10:45	White paper discussion	
10:45	–	11:15	Coffee break	
11:15	–	12:30	Reference datasets discussion	
12:30	–	13:30	Lunch Discussion (for Speakers & Organizers)	
13:30	–	14:30	Breakout group discussions	
14:30	–	15:00	Coffee break	
15:00	–	16:00	Consolidate the discussions Draft white paper Define working groups for each reference	
16:00	–	16:15	Concluding remarks	Piero Carninci