2017 International Symposium on Joint Research Project of the Institute of Medical Science, The University of Tokyo (IMSUT)

"Deciphering Genome Big Data"

Program

Opening Address	s Yoshinori Murakami (Dean of IMSUT)
Plenary Lecture-1	
9:40-10:40	Transformation of big data into clinically actionable knowledge; Driving the genomic medicine revolution Elizabeth Worthey, Ph.D. (HudsonAlpha Institute for Biotechnology, USA)
Session-1: Cancer Genome and Beyond	
10:45-11:25	Deconstruction of the cancer genome by mutational signature Tatsuhiro Shibata, M.D., Ph.D. (The University of Tokyo, Japan)
11:30-12:10	Multi-omics analysis of cancer cells Yutaka Suzuki, Ph.D. (The University of Tokyo, Japan)
12:10-13:30	Lunch
Session-2: Translation of Genome Data for the Diagnosis and Care of Patients	
13:30-14:10	Identification of deleterious genetic changes in familial and rare cancers and application of their information for personalized healthcare Yoichi Furukawa, M.D., Ph.D. (The University of Tokyo, Japan)
14-15-14:55	Rare variants in rare diseases Naomichi Matsumoto , M.D., Ph.D. (Yokohama City University, Japan)
Plenary Lecture-2	
15:00 -16:00	Deciphering whole genome sequencing data at scale, and in the clinic, for rare disease and cancer diagnosis Mark Cowley, Ph.D. (Garvan Institute of Medical Research, Australia)
16:00-16:20	Coffee Break
Session-3: Genome Big Data and Healthcare	
16:20-17:00	Big data science with genome cohort: Tohoku Medical Megabank Project Jun Yasuda, M.D., Ph.D. (Tohoku University, Japan)
17:05-17:45	Statistical genetics, disease biology, and drug discovery Yukinori Okada, M.D., Ph.D. (Osaka University, Japan)
Closing Address	Satoru Miyano (IMSUT)

Organized by Joint Research Project of the Institute of Medical Science, The University of Tokyo Co- organized by Medical Genomics Research Initiative, The University of Tokyo Supported by Priority Issue on Post-K computer, Integrated Computational Life Science to Support Personalized and Preventive Medicine