

International Symposium on Cancer · Aging Biology and Bioinformatics
-Toward Omics-Driven Prevention and Medicine for Aging and Cancer

	Program	Chair
14:00	Opening Remarks: Nobuyuki Takakura	
14:00-14:30	Invited lecture 1 Cancer · Aging Biology Programming and Reprogramming of Aging Guang-Hui Liu (Institute of Zoology, Chinese Academy of Sciences)	Tohru Ishitani
14:30-14:35	Break	
14:35-15:05	Invited lecture 2 Bioinformatics Single-bacterium RNA-Seq reveals principles of genome regulation and antibiotic persisters Itai Yanai (Department of Biochemistry and Molecular Pharmacology, Grossman School of Medicine, New York University)	Kenji Kamimoto
15:05-15:10	Break	
15:10-15:30	Biken lecture 1 Cancer · Aging Biology Age-related disruption of the crosstalk between host and gut microbiota through B cell senescence Shimpei Kawamoto (Department of Molecular Biology, Research Institute for Microbial Diseases, Osaka University)	Eiji Hara
15:30-15:50	Biken lecture 2 Bioinformatics Decide, predict, and control biological systems and diseases through integrative modeling approaches. Kenji Kamimoto (Laboratory of Systems Biology, Department of Biological Informatics, Bioinformatics Center, Research Institute for Microbial Diseases, Osaka University)	Shotaro Yamasaki
15:50-16:05	Break	
16:05-16:35	Invited lecture 3 Cancer · Aging Biology Multi-modal data analyses to understand cancer cachexia, enhancer-dependent gene regulation, and physiological responses to daily activities Shinpei Kawaoka (Department of Integrative Bioanalytics, Institute of Development, Aging and Cancer, Tohoku University)	Masahito Ikawa
16:35-16:40	Break	
16:40-17:10	Invited lecture 4 Bioinformatics Probabilities and Differentiation in RNA Sequence Design Kiyoshi Asai (Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo)	Yoichiro Nakatani
17:10	Closing Remarks: Sho Yamasaki	

Each program includes a 5-minute discussion time.