

50th anniversary annual meeting of JEMS

Keynote lectures

November 1/morning

Dr. Makoto Hayashi (makoto international consulting)

Past, Present, and Future of Regulatory Genotoxicity

Dr. Yasushi Yamazoe (Former member of the Food Safety Commission, Tohoku University)

Mutagenic Metabolic Activation and Drug Metabolism

Dr. Keiji Wakabayashi (University of Shizuoka)

Exploratory research on environmental mutagens and carcinogens

Symposium 1: Evaluating Genome Safety - New Technologies and Challenges

November 1/afternoon

- 1: Naoki Koyama (Eisai Co., Ltd.), Mutagenicity screening evaluation using in silico (AI, QSAR) - A case study in industry
- 2: Yukari Totsuka (National Cancer Center, Nihon University School of Pharmacy), In vitro genotoxicity assessment using biomimicry
- 3: Ryuichi Ono (National Institute of Health Sciences), Safety evaluation of genome editing technology
- 4: Shoji Matsumura (Kao Corporation), Development of high precision genome sequencing method and detection of somatic mutation
- 5: Kenichi Masumura (National Institute of Health Sciences), Germline mutations and their impact on next-generation genomes

Symposium 2: Environmental Mutation Genomic Research to Combat Infectious Diseases

November 2/morning

- 1: Takayoshi Suzuki (National Institute of Infectious Diseases), Potential of environmental mutant genome research in infectious diseases
- 2: Masamichi Muramatsu (National Institute of Infectious Diseases), Host mutagenic enzymes induced by viral infection and their pathological correlation
- 3: Koetsu Ogasawara (Tohoku University), Evolutionary mechanism of novel coronaviruses and mutation detection applications
- 4: Yoshihiro Kawaoka (National Center for Global Health and Medicine, Institute of Medical Science, University of Tokyo, University of Wisconsin), Mutation of RNA viruses
- 5: Ryo Honda (Kanazawa University), Understanding the prevalence of infectious diseases by sewage genome analysis and prospects for the detection of SARS-CoV-2 mutant strains

Symposium 3: A New Approach to Environmental Mutagen Genome Analysis - Small but Spicy Data Analysis

November 2/afternoon

- 1: Isao Kuraoka (Fukuoka University), How to cut "haute couture" mutation data (database analysis)
- 2: Tsuyoshi Ikura (Kyoto University), Data-driven approach for new frontiers in aging research
- 3: Takuma Shiraki (Kinki University), Cooking pigs to behave probabilistically: Animal science in the age of big data
- 4: Satoshi Tashiro (Hiroshima University), Genomic variation revealed by chromosomal high-throughput analysis
- 5: Tomonari Matsuda (Kyoto University), Development of an innovative antibody screening method by tracking antibody sequence evolution

The titles of the presentations are tentative.