Program - Oral Presentations

Updated: March 27, 2024

Titles and order of presentations may change slightly. Poster abstracts will be selected for oral presentations in some of the sessions.

Education and Training

Chairs：Tetsushi Sakuma (Hiroshima University)
Takuro Horii(Gunma University)

Latest Trends of Genome Editing Technologies

Tetsushi Sakuma (Graduate School of Integrated Sciences for Life, Hiroshima University)

Genome Editing Technologies in iPS Cells -Applications and Methods-

Yusuke Kojima (Center for iPS Cell Research and Application, Kyoto University)

Development and application of a simple and efficient method for creating genetically modified mice

Hiromi Miura (Department of Molecular Life Science, Division of Basic Medical Science and Molecular Medicine, Tokai University School of Medicine)

Genome Editing in Plants and Challenges for Field Cultivation Trials

Shuhei Yasumoto[1,2] ([1]Graduate School of Engineering, Osaka University, [2]Institute for Open and Transdisciplinary Research Initiatives, Osaka University)

Basic Technology

Chairs：Kosuke Yusa (Kyoto University)
Keiichiro Suzuki (Osaka University)

Structure and function of an RNA-guided DNA recombinase

Hiroshi Nishimasu (The University of Tokyo)

Genome Editing by NICER: Correcting Heterozygous Mutations Using Multiple Nicks-Induced Interhomolog Homologous Recombination

Shinichiro Nakada[1,2] ([1]Advanced Co-Creative Studies, Osaka University, [2]Graduate School of Medicine, Osaka University)

Design and Application of Prime Editing in Human iPSCs

Knut Woltjen (Dept. of Life Science Frontiers, Center for iPS Cell Research and Application, CiRA)

Knut Woltjen (Kyoto University)

Determining key genes for cell fate control from structure of network alone.

Atsushi Mochizuki (Institute for Life and Medical Sciences, Kyoto University)

Various Species

Chairs: Hiroshi Kiyonari (RIKEN)
Mai Tsuda (University of Tsukuba)

CRISPR/Cas9-meditated Genome editing in the Gecko

Takaya Abe (Laboratory for Animal Resources and Genetic Engineering, RIKEN Center for Biosystems Dynamics Research)

Reading and Editing amphibian genomes for Deciphering the organ regeneration code

Ken-ichi T Suzuki (Trans-Scale Biology Center, National Institute for Basic Biology)

Understanding the evolution of multicellular organisms using a highly efficient knock-in technology in insects

Toshiya Ando[1,2] ([1]The Hakubi Center for Advanced Research, Kyoto University, [2]Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University)

Toward Advanced DNA-free Genome Editing in Rice

Erika Toda (Graduate School of Agricultural and Life Sciences, The University of Tokyo)

Therapeutic Application

Chairs: Yasuji Kitabatake (Osaka University)
Hideo Miki (Mitsubishi Tanabe Pharma Corporation)

TBA

Toru Uchiyama (National Center for Child Health and Development)

TBA

Kazunori Hashimoto (CENTCREST IP Attorneys)

Industrial Application

Chairs: Keiji Nishida (Kobe University)
Takahiro Nakamura (Kyushu University)

Current Status and Prospects of Crop Breeding Using Gene-Editing Technologies

Takehito Kobayashi (GRA&GREEN Inc.)

Development of gRNA-free base editing technology

Yusuke Yagi (EditForce, Inc.)

Research and Development of Delivery Technology for Plant Genome Engineering and Kaneka's Agribusiness

Zempei Shimatani (Agri-Bio Research Center, Kaneka Corporation)

Technology for extending gRNA function and its application to gene therapy

Masaki Kawamata (Medical Institute of Bioregulation, Kyushu University)

Towards social implementation of low-allergen chicken eggs created by genome editing

Hiroyuki Horiuchi[1,2] ([1]Genome Editing Innovation Center, Hiroshima University, [2]Graduate School of Integrated Sciences for Life, Hiroshima University)