CONFERENCE PROGRAM

Saturday, December 10, 2022

OPENING KEYNOTE SESSION
6:00 p.m.-7:30 p.m.
Monarchy 1-4

Session Cochairs: Antoni Ribas, UCLA Jonsson Comprehensive Cancer Center, Los Angeles, CA, USA, and Masanori Hatakeyama, Institute of Microbial Chemistry, Tokyo, Japan

6:00 p.m. Introductory Remarks
Masanori Hatakeyama and Antoni Ribas

6:10 p.m. Reprogramming T Cells with CRISPR to enhance immunotherapy*
Alexander Marson, University of California San Francisco, San Francisco, CA, USA

6:50 p.m. H. pylori infection, BRCAness, and gastric cancer*
Masanori Hatakeyama, Institute of Microbial Chemistry, Tokyo, Japan

OPENING RECEPTION
7:30 p.m.-9:00 p.m.
Napili Gardens Lawn, Monarchy 5-7, and Promenade

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
Sunday, December 11, 2022

CONTINENTAL BREAKFAST AND NETWORKING ROUNDTABLES
7:00 a.m.-8:00 a.m.
Sunset Terrace

PLENARY SESSION 1: TUMOR MICROENVIRONMENT
8:00 a.m.-9:30 a.m.
Monarchy 1-4

Session Cochairs: Toshikazu Ushijima, Hoshi University, Tokyo, Japan, and Antoni Ribas, UCLA Jonsson Comprehensive Cancer Center, Los Angeles, CA, USA

8:00 a.m. The aging microenvironment and its impact on tumor progression+
Ashani T. Weeraratna, Johns Hopkins University, Baltimore, MD, USA

8:35 a.m. The role and mechanism of SASP in tumor microenvironment of obesity-associated liver cancer*
Naoko Ohtani, Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan

9:10 a.m. Mechanisms of neutrophil immune response in the bone metastatic prostate cancer*
Leah M. Cook, University of Nebraska Medical Center, Omaha, NE, USA

COFFEE BREAK
9:30 a.m.-10:00 a.m.
Grand Promenade

PLENARY SESSION 2: CANCER GENOMICS AND CANCER EVOLUTION
10:00 a.m.-12:00 p.m.
Monarchy 1-4

Session Cochairs: Christina Curtis, Stanford University, Stanford, CA, USA, and Koshi Mimori, Kyushu University Beppu Hospital, Oita, Japan

10:00 a.m. Extrachromosomal DNA (ecDNA): Cancer’s dynamic circular genome
Paul S. Mischel, Stanford University, Stanford, California

10:33 a.m. Genetic basis of pediatric cancers
Junko Takita, Kyoto University, Graduate School of Medicine, Kyoto, Japan

11:06 a.m. Genotype to phenotype mapping of tumorigenesis at single cell resolution*
Christina Curtis, Stanford University, Stanford, CA, USA

11:39 a.m. Translating cancer evolutionary insights into clinical practice*
Mariam Jamal Hanjani, University College London Cancer Institute, London, United Kingdom

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
+ Presenting virtually
FREE TIME
12:00 p.m.-4:00 p.m.

PLENARY SESSION 3: CANCER IMMUNOLOGY
4:00 p.m.-5:30 p.m.
Monarchy 1-4

Session Cochairs: Nina Bhardwaj, The Tisch Cancer Institute, Icahn School of Medicine at Mt. Sinai, New York, New York, and Masanobu Oshima, Kanazawa University, Kanazawa, Japan

4:00 p.m.  Regeneration of cytotoxic T lymphocytes from iPS cells: Development of “off-the-shelf T cells” for cell therapy targeting cancer and viral infection
Hiroshi Kawamoto, Kyoto University, Kyoto, Japan

4:35 p.m.  Properties of tumor antigens determining induction of immunity*
Nina Bhardwaj, The Tisch Cancer Institute, Icahn School of Medicine at Mt. Sinai, New York, NY, USA

5:10 p.m.  Chimeric antigen receptors targeting of truncated O-glycopeptides
Avery D. Posey, Jr., University of Pennsylvania, Philadelphia, PA, USA

POSTER SESSION A
5:30 p.m.-7:30 p.m.
Monarchy 5-7

Monday, December 12, 2022

CONTINENTAL BREAKFAST AND NETWORKING ROUNDTABLES
7:00 a.m.-8:00 a.m.
Sunset Terrace

PLENARY SESSION 4: CANCER IMMUNOTHERAPY
8:00 a.m.-9:30 a.m.
Monarchy 1-4

Session Cochairs: Antoni Ribas, UCLA Jonsson Comprehensive Cancer Center, Los Angeles, CA, USA, and Seiji Yano, Kanazawa University, Kanazawa, Japan

8:00 a.m.  Immune suppression by regulatory T cells in the tumor microenvironment*
Hiroyoshi Nishikawa, National Cancer Center, Tokyo, Japan

8:35 a.m.  When cancer cells enable an antitumor immune response
Antoni Ribas, UCLA Jonsson Comprehensive Cancer Center, Los Angeles, CA, USA

9:10 a.m.  Clonal evolution in a tumor microenvironment*
Yosuke Togashi, Chiba Cancer Center, Kashiwa, Japan

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
COFFEE BREAK
9:30 a.m.-10:00 a.m.
Sunset Terrace

PLENARY SESSION 5: PRECLINICAL MODELS; ORGANOIDS; GENETIC AND TRANSPLANTATION MODELS
10:00 a.m.-11:30 a.m.
Monarchy 1-4

Session Cochair: Issay Kitabayashi, National Cancer Center Research Institute, Tokyo, Japan and Alexander Marson, University of California San Francisco, San Francisco, CA, USA

10:00 a.m.  
Modeling pancreatic cancer*+
David A. Tuveson, Cold Spring Harbor Laboratory Cancer Center; Lustgarten Foundation, Cold Spring Harbor, NY, USA

10:35 a.m.  
Polyclonal metastasis of genetically and phenotypically distinct intestinal tumor organoids*
Masanobu Oshima, Kanazawa University, Kanazawa, Japan

11:10 a.m.  
Humanized mouse models for immuno-oncology studies*
Anthony Rongvaux, Fred Hutchinson Cancer Center, Seattle, WA, USA

FREE TIME
11:30 a.m.-4:30 p.m.

PLENARY SESSION 6: EPIGENETICS; CANCER PLASTICITY AND HETEROGENEITY; RNA NETWORKS
4:30 p.m.-5:30 p.m.
Monarchy 1-4

Session Cochair: Junko Takita, Kyoto University, Kyoto, Japan and Patrick Tan, Duke-NUS Medical School, Singapore, Singapore

4:30 p.m.  
Essential roles of TIP60 in acute myeloid leukemia with NPM mutation*
Issay Kitabayashi, National Cancer Center Research Institute, Tokyo, Japan

5:00 p.m.  
Dissecting the mechanisms for cancer development caused by aberrant splicing*
Daichi Inoue, Institute of Biomedical Research and Innovation, Kobe, Japan

POSTER SESSION B
5:30 p.m.-7:30 p.m.
Monarchy 5-7

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
+ Presenting virtually
Tuesday, December 13, 2022

CONTINENTAL BREAKFAST
7:00 a.m.-8:00 a.m.
Sunset Terrace

PLENARY SESSION 7: CANCER METABOLOMICS
8:00 a.m.-9:30 a.m.
Monarchy 1-4

Session Cochairs: Susan M. Kaech, Salk Institute, La Jolla, CA, USA, and Naoko Ohtani, Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan

8:00 a.m.  Targeting NAD biogenesis in lung and prostate neuroendocrine carcinomas*
           Nobuhiro Tanuma, Miyagi Cancer Center, Miyagi, Japan

8:35 a.m.  Co-opting immune cells to support cancer progression through metabolic reprogramming
           Susan M. Kaech, Salk Institute, La Jolla, CA, USA

9:10 a.m.  Cancer metabolism within the tumor microenvironments*
           Tsuyoshi Osawa, The University of Tokyo, Tokyo, Japan

COFFEE BREAK
9:30 a.m.-10:00 a.m.
Grand Promenade

PLENARY SESSION 8: GENOMIC INSTABILITY
10:00 a.m.-11:00 a.m.
Monarchy 1-4

Session Chair: Yoshinori Murakami, The University of Tokyo, Tokyo, Japan

10:00 a.m.  The labile control of mitotic chromosome segregation underlies chromosomal instability in cancer cells*
           Toru Hirota, The Cancer Institute Japanese Foundation for Cancer Research (JFCR), Tokyo, Japan

10:35 a.m.  Maintenance of genome integrity and chemoresistance by BRCA1 tumor suppressor*
           Natsuko Chiba, Tohoku University, Miyagi, Japan

FREE TIME
11:00 a.m.-4:00 p.m.

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.
PLENARY SESSION 9: GENETIC AND ENVIRONMENTAL FACTORS IN CARCINOGENESIS
4:00 p.m.-5:30 p.m.
Monarchy 1-4

Session Cochairs: Melissa B. Davis, Weill Cornell Medicine, New York, NY, USA, and Tatsuhiro Shibata, The University of Tokyo, Tokyo, Japan

4:00 p.m. Resolving race vs ancestry in triple negative breast cancer (TNBC) disparities: Differential immunological landscapes*
Melissa B. Davis, Weill Cornell Medicine, New York, NY, USA

4:35 p.m. Molecular assessment of pre-malignant lesions in stomach cancer*
Patrick Tan, Duke-NUS Medical School, Singapore, Singapore

5:10 p.m. Comprehensive analyses of genome and DNA adducts elucidate association between environmental factors and human cancer development*
Yukari Totsuka, National Cancer Center, Tokyo, Japan

POSTER SESSION C
5:30 p.m.-7:30 p.m.
Monarchy 5-7

Wednesday, December 14, 2022

CONTINENTAL BREAKFAST
7:00 a.m.-8:00 a.m.
Sunset Terrace

PLENARY SESSION 10: EARLY DETECTION OF CANCER
8:00 a.m.-9:30 a.m.
Monarchy 1-4

Session Cochairs: Tomoki Todo, The University of Tokyo, Tokyo, Japan, and John M. Carethers, University of Michigan, Ann Arbor, MI, USA

8:00 a.m. Allele – environment interplay in Asian gastric cancer
Shumpei Ishikawa, The University of Tokyo, Tokyo, Japan

8:35 a.m. Fecal and tissue DNA for diagnosis and prognosis of colorectal cancer*
John M. Carethers, University of Michigan, Ann Arbor, MI, USA

9:10 a.m. Exosomal proteins in cancer: Roles in cancer metastasis and biomarker potential*
Ayuko Hoshino, Tokyo Institute of Technology, Tokyo, Japan

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COFFEE BREAK
9:30 a.m.-10:00 a.m.
Grand Promenade

PLENARY SESSION 11: DRUG RESISTANCE AND PRECLINICAL MODELS IN CANCER RESEARCH
10:00 a.m.-11:30 a.m.
Monarchy 1-4

Session Cochairs: Katerina Politi, Yale Cancer Center, New Haven, Connecticut, and Noriko Gotoh, Kanazawa University, Kanazawa, Japan

10:00 a.m.  Mechanisms of resistance to systemic therapies in lung cancer
Katerina Politi, Yale Cancer Center, New Haven, CT, USA

10:35 a.m.  Drosophila approaches toward cancer mechanisms and therapeutics*
Masahiro Sonoshita, Hokkaido University, Hokkaido, Japan

11:10 a.m.  Models and strategies to study acral melanoma from Latin American patients*
Patricia A. Possik, Brazilian National Cancer Institute, Rio de Janeiro, Brazil

FREE TIME
11:30 a.m.-4:00 p.m.

PLENARY SESSION 12: NEW TECHNOLOGIES FOR CANCER IMAGING AND OTHER EMERGING TECHNOLOGIES
4:00 p.m.-5:30 p.m.
Monarchy 1-4

Session Cochairs: Toru Hirota, The Cancer Institute Japanese Foundation for Cancer Research (JFCR), Tokyo, Japan, and Anna M. Wu, City of Hope, Duarte, CA, USA

4:00 p.m.  Visualizing immune responses using immunoPET*
Anna M. Wu, City of Hope, Duarte, CA, USA

4:35 p.m.  Clinical applications of intraoperative fluorescence imaging to hepatobiliary and pancreatic surgery*
Kenjiro Kimura, Osaka Metropolitan University, Osaka, Japan

5:10 p.m.  Antibody-PET of modulation of cell-surface receptor density to reverse drug resistance in tumors*
Patricia Ribeiro Pereira, Washington University School of Medicine, St. Louis, MO, USA

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.