### Friday, February 8

6:30 p.m.-8:00 p.m. WELCOME AND KEYNOTE SESSION

Valley Isle Ballroom

Session Chairs: Elaine R. Mardis, Nationwide Children's Hospital, Columbus, Ohio,

USA, and Hitoshi Nakagama, National Cancer Center, Tokyo, Japan

Cancer genomics: Discovery to clinical translation\*

Elaine R. Mardis

Regulatory T cells in tumor immunity

Shimon Sakaguchi, Osaka University, Osaka, Japan

8:00 p.m.-9:30 p.m. OPENING RECEPTION

Aloha Pavilion and Ko'ala

### Saturday, February 9

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

Aloha Pavilion and Ko'ala

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

Valley Isle Ballroom

Session Chairs: Kohei Miyazono, The University of Tokyo, Tokyo, Japan, and

Raghu Kalluri, The University of Texas MD Anderson Cancer Center, Houston, TX, USA

Exploiting the biology of exosomes for diagnosis and treatment of cancer\*

Raghu Kalluri

Role of actin dynamics in cell fate plasticity of microenvironmental cells\*

Hideyuki Saya, Keio University School of Medicine, Tokyo, Japan

Neutrophil extracellular traps activated during inflammation awaken dormant

cancer cell\*

Mikala Egeblad, Cold Spring Harbor Laboratory Cancer Center, Cold Spring Harbor,

NY, USA

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

Valley Isle Terrace

<sup>\*</sup>An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.

10:00 a.m.-11:30 a.m.

PLENARY SESSION 2: CANCER PRECISION MEDICINE, PREVENTION, INTERCEPTION, AND EARLY DETECTION

Valley Isle Ballroom

**Session Chairs: Nickolas Papadopoulos,** Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, USA, and **Yoshinori Murakami,** The Univerity of Tokyo, Tokyo, Japan

Noninvasive earlier detection of cancer\*

Nickolas Papadopoulos

Construction of cancer genomic medicine platform in Japan\*

Hiroyuki Mano, National Cancer Center Research Institute, Tokyo, Japan

**Genome-wide analysis of plasma cell-free DNA for cancer detection\***Geoffrey R. Oxnard, Dana-Farber Cancer Institute, Boston, MA, USA

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

**FREE TIME** 

4:00 p.m.-5:30 p.m.

PLENARY SESSION 3: HETEROGENEITY, CLONAL EVOLUTION, AND BIG DATA

Valley Isle Ballroom

**Session Chairs: Yoshio Miki,** Tokyo Medical and Dental University, Tokyo, Japan, and **Samuel Aparicio,** British Columbia Cancer Agency, Vancouver, Canada

Clonal dynamics and cellular fitness in cancer to single cell resolution

Samuel Aparicio

Strong potential for combinatorial approaches involving TGF- $\beta$  kinase inhibitor:

Considerable utility in a wide variety of cancers\*

Seong-Jin Kim, Seoul National University, Seoul, South Korea

Quantifying clonal evolution through treatment and metastasis\*

Christina Curtis, Stanford University, Stanford, CA, USA

5:30 p.m.-7:30 p.m.

**POSTER SESSION A** 

Haleakala Ballroom

<sup>\*</sup>An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.

### Sunday, Feb. 10, 2019

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

Aloha Pavilion and Ko'ala

8:00 a.m.-9:30 a.m. PLENARY SESSION 4: METABOLISM

Valley Isle Ballroom

**Session Chairs: Lewis C. Cantley,** Weill Cornell Medical College, New York-Presbyterian Hospital, New York, NY, USA, and **Takashi Takahashi,** Aichi Cancer

Center, Aichi, Japan

Next-generation proteomics unveils a global landscape of cancer metabolism:

Discovery of the "second" Warburg effect

Kei-ichi Nakayama, Kyushu University, Fukuoka, Japan

PI3-kinase and cancer metabolism\*

Lewis C. Cantley

NRF2 addiction in cancer cells and its impact on metabolism\*

Hozumi Motohashi, Tohoku University, Sendai, Japan

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

Valley Isle Terrace

10:00 a.m.-11:30 a.m. PLENARY SESSION 5: EPIGENETICS

Valley Isle Ballroom

**Session Chairs: Wataru Yasui,** Hiroshima University, Hiroshima, Japan, and **Mathieu Lupien,** Princess Margaret Cancer Centre, Toronto, Canada

A vicious combination of inflammatory signals induces aberrant DNA methylation, and its accumulation level precisely predicts cancer risk\*

Toshikazu Ushijima, National Cancer Center Research Institute, Tokyo, Japan

Primary glioblastoma arise from a heterogeneous population of cancer stem cells defined by chromatin state

Mathieu Lupien

ATAC-seq analysis reveals epigenomic heterogeneity in breast cancer

Reo Maruyama Cancer Institute, Japanese Foundation for Cancer Research

Cancer Institute, Tokyo, Japan

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

<sup>\*</sup>An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.

4:00 p.m.-5:30 p.m. PLENARY SESSION 6: IMMUNOTHERAPY

Valley Isle Ballroom

Session Chairs: Yutaka Kawakami, Keio University, Tokyo, Japan, and

Cassian Yee, The University of Texas MD Anderson Cancer Center, Houston, TX, USA

Potent antitumor effects of IL-7/CCL19-producing CAR-T cells against

solid tumors\*

Koji Tamada, Yamaguchi University, Yamaguchi, Japan

Adoptive T cell therapy: Impersonalized precision medicine

Cassian Yee

Genetic alterations involving PD-1 ligands in virus-associated lymphomas\*

Keisuke Kataoka, National Cancer Center Research Institute, Tokyo, Japan

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

Haleakala Ballroom

### Monday, February 11

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

Aloha Pavilion and Ko'ala

8:00 a.m.-9:30 a.m. PLENARY SESSION 7: MICROBIOME

Valley Isle Ballroom

**Session Chairs: Takuro Nakamura,** Cancer Institute, Japanese Foundation for Cancer Research, Tokyo, Japan, and **Jennifer A. Wargo,** The University of Texas MD Anderson

Cancer Center, Houston, TX, USA

The role of the microbiome in response to cancer therapy

Jennifer A. Wargo

The impact of *Helicobacter pylori* infection on gastric carcinogenesis\*

Masanori Hatakeyama, The University of Tokyo, Tokyo, Japan

Microbial regulation of tumor-elicited inflammation\*

Sergei Grivennikov, Fox Chase Cancer Center, Philadelphia, PA, USA

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

Valley Isle Terrace

<sup>\*</sup>An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.

10:00 a.m.-11:30 a.m. PLENARY SESSION 8: ENGINEERING, NANOTECHNOLOGY, AND IMAGING

Valley Isle Ballroom

Session Chairs: Daniel A. Heller, Memorial Sloan Kettering Cancer Center, New York,

NY, USA, and Masanobu Oshima, Kanazawa University, Ishikawa, Japan

Macrocyclic pseudo-natural peptides for anticancer therapies\*

Hiroaki Suga, The University of Tokyo, Tokyo, Japan

Nanomedicines to improve the therapeutic index of precision medicines\*

Daniel A. Heller

Application of tissue clearing technology in cancer research\*

Kei Takahashi, The University of Tokyo, Tokyo, Japan

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

**PLENARY SESSION 9: LIQUID BIOPSY** 4:00 p.m.-5:30 p.m.

Valley Isle Ballroom

Session Chairs: Fuyuki Ishikawa, Kyoto University, Kyoto, Japan, and Alberto Bardelli, University of Turin - Candiolo Cancer Institute IRCCS, Candiolo, Italy

The emerging role of exosomal microRNAs in cancer diagnostic and therapeutics\* Takahiro Ochiya, Tokyo Medical University; National Cancer Center Research Institute, Tokyo, Japan

Inactivation of DNA repair to improve immune surveillance\*

Alberto Bardelli

Proteome-wide profiling of viable tissue-derived exosomes, toward development

of cancer liquid biopsy\*

Koji Ueda, Japanese Foundation for Cancer Research, Tokyo, Japan

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

Haleakala Ballroom

<sup>\*</sup>An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.

### Tuesday, February 12

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

Aloha Pavilion and Ko'ala

8:00 a.m.-9:30 a.m. PLENARY SESSION 10: DRUG RESISTANCE

Valley Isle Ballroom

**Session Chairs: Alan Ashworth,** University of California San Francisco Helen Diller Family Comprehensive Cancer Center, San Francisco, CA, USA, and **Naoya Fujita,** Cancer Chemotherapy Center, Japanese Foundation for Cancer Research, Tokyo, Japan

Mechanism of the intrinsic resistance and emergence of tolerant cells to osimertinib in EGFR mutated lung cancer\*

Seiji Yano, Cancer Research Institute, Kanazawa University, Ishikawa, Japan

Synthetic lethal targeting of defects in DNA repair as cancer therapy\*
Alan Ashworth

Cellular diversity by genetic and nongenetic alteration in cancer induces acquired resistance in NSCLC

Ryohei Katayama, Cancer Chemotherapy Center, Japanese Foundation for Cancer Research, Tokyo, Japan

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

Valley Isle Terrace

10:00 a.m.-11:00 a.m. PLENARY SESSION 11: NOVEL TARGETS AND DRUG DISCOVERY

Valley Isle Ballroom

**Session Chairs: Atsushi Ochiai,** Exploratory Oncology Research and Clinical Trial Center, National Cancer Center, Chiba and Tokyo, Japan, and **Kevan M. Shokat,** University of California San Francisco and Howard Hughes Medical Institute, San Francisco, CA, USA

Chemical strategies for discovering direct inhibitors of K-Ras and other oncogenic GTPases

Kevan M. Shokat

Telomere as the starting point of anticancer drug discovery\*

Hiroyuki Seimiya, Cancer Chemotherapy Center, Japanese Foundation for Cancer Research, Tokyo, Japan

<sup>\*</sup>An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.

11:00 a.m.-3:30 p.m. FREE TIME

3:30 p.m.-5:30 p.m. PLENARY SESSION 12: TRANSLATIONAL AND CLINICAL RESEARCH

**AND CLINICAL TRIALS** 

Valley Isle Ballroom

**Session Chairs: Riccardo Dalla-Favera,** Columbia University Institute for Cancer Genetics, New York, NY, USA, and **Hiroyuki Seimiya,** Cancer Chemotherapy Center,

Japanese Foundation for Cancer Research, Tokyo, Japan

Drug repurposing for diffuse large B-cell lymphoma\*

Riccardo Dalla-Favera

Metabolic regulation of stemness in hematopoietic malignancy\*

Atsushi Hirao, Cancer Research Institute, Kanazawa University, Ishikawa, Japan

Targeting oncogene dependencies in metastatic breast cancer: A clinical and translational perspective

Dejan Juric, Massachusetts General Hospital Cancer Center, Boston, MA, USA

Phase II clinical trial of oncolytic herpes virus G47∆ in patients with glioblastoma\*

Tomoki Todo, The University of Tokyo, Tokyo, Japan

5:30 p.m.-7:30 p.m. POSTER SESSION D

Haleakala Ballroom

<sup>\*</sup>An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings.