

July 6th

9:00-9:10 Welcome Address

9:10-11:10 Session1: Genetics and modeling

Chair: Akira Suzuki, Kobe University, Japan

S1-1 CRISPR engineering for studying peripheral nerve sheath tumors: iPSC-based models and synthetic lethality

David A. Largaespada, Ph.D.

Masonic Cancer Center at the University of Minnesota, USA

S1-2 Inactivation of TRAF3 promotes intrahepatic cholangiocarcinoma development via hepatocyte transdifferentiation

Takahiro Kodama, Yuto Shiode, Tetsuo Takehara

Department of Gastroenterology and Hepatology, Osaka University Graduate School of Medicine, Japan

S1-3 Identification of colorectal cancer driver genes by Sleeping Beauty mutagenesis. ...

Haruna Takeda

National Cancer Center Research Institute, Laboratory of Molecular Genetics, Japan

S1-4 Malignant cancer cells drive polyclonal metastasis through fibrotic niche generation

Masanobu Oshima

Cancer Research Institute, Kanazawa University, Japan

11:10-11:20 break

11:20-12:10 Keynote Lecture

Chair: Masanori Hatakeyama, The University of Tokyo, Japan

Keynote Lecture

Targeting the gene regulatory network in cancer: Modeling leukemia and sarcoma...

Takuro Nakamura

Division of Carcinogenesis, The Cancer Institute, Japanese Foundation for Cancer Research, Japan

12:10-13:10 Lunch

13:10-14:00 Special Lecture 1

Chair: Masanobu Oshima, Kanazawa University, Japan

Special Lecture 1

Genetic and Epigenetic Heterogeneity in Gastrointestinal Cancer

Patrick Tan

Duke-NUS Medical School

Genome Institute of Singapore, A*STAR

Cancer Science Institute of Singapore, NUS, Singapore

14:00-14:10 break

14:10-15:40 Session2: Epigenetic abnormalities in solid tumors

Chair: Issei Kitabayashi, National Cancer Research Center, Japan

S2-1 Screening for long noncoding RNAs associated with oral squamous cell carcinoma reveals the potentially oncogenic actions of DLEU1

Hiromu Suzuki

Department of Molecular Biology, Sapporo Medical University, School of Medicine, Japan

S2-2 single-cell chromatin accessibility reveals intra- and inter-tumor heterogeneity in human breast cancer.....

Kohei Kumegawa¹, Sumito Saeki^{2,3}, Yoko Takahashi^{1,3}, Liying Yang², Tomoyoshi Nakadai², Tetsuo Noda⁴, Shinji Ohno^{1,5}, Takayuki Ueno^{1,3}, Reo Maruyama^{1,2}

1NEXT-Ganken Program, Japanese Foundation for Cancer Research (JFCR), Japan

2Project for Cancer Epigenomics, Cancer Institute, JFCR, Japan

3Breast Surgical Oncology, Cancer Institute Hospital, JFCR, Japan

4Director's room, Cancer Institute, JFCR, Japan

5Breast Oncology Center, Cancer Institute Hospital, JFCR., Japan

S2-3 Epigenomic alterations in epithelial and stromal cells induced by chronic inflammation.....

Toshikazu Ushijima

Division of Epigenomics, National Cancer Center Research Institute, Japan

15:40-15:50 break

15:50-17:50 Session3: Epigenetic abnormalities in hematological malignancies

Chair: Atsushi Hirao, Kanazawa University, Japan

S3-1 Essential roles of histone acetyltransferase TIP60 in acute myeloid leukemia

Issay Kitabayashi, Kazutsune Yamagata and Yukiko Aikawa

Division of hematological malignancy, National Cancer Center, Japan

S3-2 Understanding and Targeting Aberrant Splicing in Cancers.....

Akihide Yoshimi

National Cancer Center Research Institute, Japan

S3-3 Functional analysis of tumor suppressor NDRG2 suppressed by aberrant DNA methylation in ATL.....

Kazuhiro Morishita

Director, HTLV-1/ATL Research, Education and Medical Facility, Faculty of Medicine, University of Miyazaki

Professor, Project for Advanced Medical Research and Development,

Project Research Division, Frontier Science Research Center, University of Miyazaki, JAPAN

S3-4 Evil gene regulation in acute myeloid leukemia

Ruud Delwel

Department of Hematology, Erasmus MC Cancer Institute and Onco Institute, Rotterdam, The Netherlands

July 7th

9:00-10:30 Session4: Microenvironment and cancer stem cell

Chair: Kazuhiro Morishita, Miyazaki University, Japan

S4-1 Mechanisms of drug resistance cultivated in tumor microenvironments

Ryohei Katayama

Japanese Foundation for Cancer Research, JAPAN

S4-2 Hippo-YAP signaling pathway in squamous cell carcinoma onset and progression

Tomohiko Maehama, Miki Nishio, Junji Otani, Akira Suzuki

Kobe University Graduate School of Medicine, Japan

S4-3 Dissecting cancer biology by studying in vivo reprogramming

Yasuhiro Yamada

Division of Stem Cell Pathology, Center for Experimental Medicine and Systems Biology, Institute of Medical Science, University of Tokyo, Japan

10:30-10:40 break

10:40-11:30 Special Lecture 2

Chair: Hiromu Suzuki, Sapporo Medical University, Japan

Special Lecture 2

Where the wild things are: the tumor ecosystem of breast cancer

Erwei Song

Sun Yat-sen Memorial Hospital, Sun Yat-sen University, China

11:30-12:30 Lunch

12:30-13:30 Poster Presentation

13:30-15:30 Session5: DNA damage and signaling

Chair: Takuro Nakamura, Japanese Foundation For Cancer Research, Japan

S5-1 Role of senescence in aging and cancer

Makoto Nakanishi

Division of Cancer Cell Biology, Institute of Medical Science, University of Tokyo, Japan

S5-2 Cellular senescence and cancer : a gut microbial connection.....

Eiji Hara

Research Institute for Microbial Diseases, Osaka University, Japan

S5-3 Cell fate decision by metabolic regulation in hematopoietic stem cell homeostasis and leukemogenesis.....

Atsushi Hirao

Division of Molecular Genetics, WPI Nano Life Science Institute (WPI-Nano LSI), Cancer Research Institute, Kanazawa University, Japan

S5-4 Senescence-dependent control of cellular identity.....

Dmitry Bulavin

INSERM, France

15:30-15:40 break

15:40-16:30 Special Lecture 3

Chair: Yasuhiro Yamada, The University of Tokyo, Japan

Special Lecture 3

Strategies to target cellular senescence

Jesus Gil^{1,2}

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16:30-16:40 Closing Remarks
