

Program

TUESDAY, JULY 5, 2016

15:00–17:00 **Registration**

17:10–17:15 **Opening Remarks:** Tetsuo NODA

17:15–18:05 **Plenary Lecture 1**

Chair: Tetsuo NODA

K Ras as a Cancer Target24

Frank McCORMICK

(Helen Diller Comprehensive Cancer Center, University of California, San Francisco, USA)

18:05–18:55 **Plenary Lecture 2**

Chair: Tetsuo NODA

Epigenetics, stem cells and disease research26

Rudolf JAENISCH

(Whitehead Institute for Biomedical Research, Department of Biology, MIT, USA)

19:00–20:30 **Welcome Reception**

WEDNESDAY, JULY 6, 2016

9:00–12:33 **Session A**

Genetic Heterogeneity

Chairs: Hiroyuki ABURATANI

Peter CAMPBELL

9:00–9:40 **[A-1]**

INTERROGATING THE ARCHITECTURE OF CANCER GENOMES

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Peter CAMPBELL

(Cancer Genome Project, Wellcome Trust Sanger Institute, UK)

9:40–10:10 **[A-2]**

Progression of hepatocellular carcinoma30

Hiroyuki ABURATANI

(Research Center for Advanced Science and Technology, The University of Tokyo, Japan)

10:10–10:40 **Coffee Break**

- 10:40–11:20 [A-3]
Cancer cell of origin and tumor heterogeneity32
Benjamin BECK
 (IRIBHM, Université Libre de Bruxelles (ULB), Belgium)
- 11:20–11:50 [A-4]
Integrated molecular analysis of ATL34
Seishi OGAWA
 (Graduate School of Medicine, Kyoto University, Japan)
- 11:50–12:20 [A-5]
Targeting essential growth drivers in cancer36
Hiroyuki MANO
 (Graduate School of Medicine, The University of Tokyo, Japan)
- 12:20–12:33 [A-6 (PS NO. 49)]
Integrated multiregional analysis revealed temporal signatures in genetic and epigenetic aberrations during colorectal cancer evolution129
Ryutaro UCHI
 (Department of Surgery, Kyushu University Beppu Hospital, Japan)

12:33–14:00 **Lunch**

14:00–16:53 **Session B**
Cancer Stem Cells

Chairs: Nick BARKER
 Hideyuki SAYA

- 14:00–14:40 [B-1]
Lgr5⁺ Stem Cells in Epithelial Homeostasis, Regeneration & Disease of the Stomach38
Nick BARKER
 (A*STAR Institute of Medical Biology, Singapore, Centre for Regenerative Medicine, The University of Edinburgh, UK)
- 14:40–15:10 [B-2]
Role of Dclk1-expressing cells in digestive organs40
Hiroshi SENO
 (Kyoto University Graduate School of Medicine, Japan)
- 15:10–15:40 [B-3]
Metabolic heterogeneity of cancer stem cells42
Hideyuki SAYA
 (Institute for Advanced Medical Research, Keio University School of Medicine, Japan)

15:40–16:10 **Coffee Break**

- 16:10–16:40 [B-4]
A TIM-3/Gal-9 autocrine stimulatory loop drives self-renewal of human myeloid leukemia stem cells and leukemic progression44
Koichi AKASHI
 (Kyushu University Graduate School of Medicine, Japan)

- 16:40–16:53 [B-6 (PS NO. 51)]
In vivo cancer imaging by advanced multi-photon laser excitation microscopy131
Takeshi IMAMURA
 (Department of Molecular Medicine for Pathogenesis,
 Ehime University Graduate School of Medicine, Japan)

- 16:53–17:31 **Flash Talk**
 (Poster Numbers: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33,
 35, 37, 39, 41, 43, 45, 47, 53, 55, 57, 59)

- 17:31–19:30 **Dinner**

- 19:30–21:30 **Poster Session [I]: Odd Numbers**

THURSDAY, JULY 7, 2016

- 9:00–12:33 **Session C**
Cell Fate Determination and Cancer
 Chairs: Inder M. VERMA
 Yasuhiro YAMADA
- 9:00–9:40 [C-1]
Plasticity of Cancer Cells: Lessons from Glioblastomas46
Inder M. VERMA
 (The Salk Institute, USA)
- 9:40–10:10 [C-2]
DISSECTING CANCER BIOLOGY WITH iPSC TECHNOLOGY48
Yasuhiro YAMADA
 (Center for iPS cell Research and Application, Kyoto University, Japan)
- 10:10–10:40 **Coffee Break**
- 10:40–11:20 [C-3]
Human ES cell-based Modeling of Glioblastoma50
Kosuke FUNATO
 (Department of Neurosurgery, Memorial Sloan-Kettering
 Cancer Center, NY, USA)
- 11:20–11:50 [C-4]
**Development of a human pancreatic cancer organoid recapitulating
 the tumor microenvironment**52
Hideki TANIGUCHI
 (School of Medicine, Yokohama City University, Japan)
- 11:50–12:20 [C-5]
Disease modeling of colorectal cancer using organoids54
Toshiro SATO
 (Keio University School of Medicine, Japan)

12:20–12:33 [C-6 (PS NO. 34)]
ROR1 functions as a scaffold of cavin-1 and CAV1, sustaining caveolae and RTK-mediated survival signaling in lung cancer114
Tomoya YAMAGUCHI
 (Center for Neurological Diseases and Cancer,
 Nagoya University Graduate School of Medicine, Japan)

12:33–14:00 **Lunch**

14:00–17:33 **Session D**
Plasticity of Cancer Cells

Chairs: Rik DERYNCK
 Kohei MIYAZONO

14:00–14:30 [D-1]
The Dickkopf1-CKAP4 axis creates a novel cancer cell proliferation pathway and might represent a therapeutic target for cancer.56
Akira KIKUCHI
 (Graduate School of Medicine, Osaka University, Japan)

14:30–15:10 [D-2]
Control of TGF-beta responsiveness and epithelial plasticity58
Rik DERYNCK
 (Institute of Regeneration Medicine and
 Department of Cell and Tissue Biology,
 University of California at San Francisco, USA)

15:10–15:40 [D-3]
Regulation of plasticity of tumor endothelial cells by signal networks in cancer microenvironment60
Tetsuro WATABE
 (Graduate School of Medical and Dental Sciences,
 Tokyo Medical and Dental University, Japan)

15:40–16:10 **Coffee Break**

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Kohei MIYAZONO
 (Graduate School of Medicine, The University of Tokyo, Japan)

16:40–17:20 [D-5]
Zeb1 induction in K-Ras-initiated lung cancer represses Zeb2 to launch a cancer initiation signature64
Douglas C. DEAN
 (University of Louisville Health Sciences Center,
 James Graham Brown Cancer Center, USA)

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Heterogeneity of tumor endothelium108
Kyoko HIDA
 (Vascular Biology, Frontier Research Unit, Institute for Genetic Medicine,
 Hokkaido University, Sapporo, Japan)

17:33–18:05 **Flash Talk**
(Poster Numbers: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60)

18:05–19:30 **Dinner**

19:30–21:30 **Poster Session [II]: Even Numbers**

FRIDAY, JULY 8, 2016

9:00–12:20 **Session E**
Molecular Basis of Metastasis

Chairs: Tetsuo NODA
Charles SWANTON

9:00–9:40 [E-1]
Mammary gland cell fate determinants as regulators of breast cancer progression and metastasis66
Yibin KANG
(Princeton University, USA)

9:40–10:10 [E-2]
Platelet-tumor interactions as new therapeutic targets for suppressing hematogenous metastasis68
Naoya FUJITA
(The Cancer Chemotherapy Center,
Japanese Foundation for Cancer Research, Japan)

10:10–10:40 **Coffee Break**

10:40–11:10 [E-3]
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Tetsuo NODA
(Cancer Institute, Japanese Foundation for Cancer Research, Japan)

11:10–11:40 [E-4]
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Takahiro OCHIYA
(Division of Molecular and Cellular Medicine,
National Cancer Center Research Institute, Japan)

11:40–12:20 [E-5]
Cancer diversity and evolution74
Charles SWANTON
(The Francis Crick Institute, Translational Cancer Therapeutics Laboratory,
UK)

12:20–12:35 **Announcement of Grant Recipients**

12:35–12:40 **Closing Remarks:** Kohei MIYAZONO

12:40–13:30 **Lunch**