

Program

June 14, 2012

Registration 12:00 ~

12:50

Opening Remarks

Masanobu Satake

(Director of Institute of Development, Aging and Cancer, Tohoku University)

13:00 ~ 14:10

Session 1: Cell Biology

Chairs: Harukazu Nakamura, Kozo Tanaka

S1-1 (13:00 ~ 13:30)

Metabolites and the control of cell division

Fumiko Toyoshima (Institute for Virus Research, Kyoto University)

S1-2 (13:30 ~ 14:10)

Chromosome acrobatics on the mitotic spindle

Tomoyuki Tanaka (Wellcome Trust Centre for Gene Regulation and Expression, University of Dundee, UK)

Coffee Break 14:10 ~ 14:30

14:30 ~ 15:15

Young Investigator Forum I

Chair: Tokuo Yamamoto

Y-1

Eradication of radioresistant tumors by inhibiting the AKT survival signaling pathway

Tsutomu Shimura (Institute of Development, Aging and Cancer, Tohoku University)

Y-2

3-D cancer invasion acquired by deregulation of Polycomb repressors

Katsuya Sakai (Cancer Research Institute, Kanazawa University)

Y-3

MicroRNA-mediated downregulation of mTOR/FGFR3 controls tumor growth induced by Src-related oncogenic pathways

Chitose Oneyama (Research Institute for Microbial Diseases, Osaka University)

Short Break 15:15 ~ 15:25

15:25 ~ 16:10

Young Investigator Forum II

Chair: Yasuhisa Matsui

Y-4

Toward understanding and control of cancer stem cells using IVV-HiTSeq for personal omics

Etsuko Miyamoto-Sato (Institute of Medical Science, The University of Tokyo)

Y-5

Functional interaction between stress response gene ATF3 and p53

Junya Kawauchi (Medical Research Institute, Tokyo Medical and Dental University)

Y-6

The FBXL5-IRP2 axis is integral to control of iron metabolism *in vivo*

Toshiro Moroishi (Medical Institute of Bioregulation, Kyushu University)

Short Break 16:10 ~ 16:20

16:20 ~ 17:05

Young Investigator Forum III

Chair: Toshihiko Ogura

Y-7

Regulation of transcription and development by histone methylation

Makoto Tachibana (Institute for Virus Research, Kyoto University)

Y-8

Roles of basement membrane for tissue architecture during mouse embryonic development

Sugiko Futaki (Institute for Protein Research, Osaka University)

Y-9

Vascular formation requires crosstalks between endothelial cells and primitive erythroblasts at the early stage of their development

Atsuo Iida (Institute for Frontier Medical Sciences, Kyoto University)

17:05 ~ 19:00

Poster Session

P-1

Binding of Nogo and MHCI to PirB regulates mast cells and allergy

Natsuko Shinozaki (Institute of Development, Aging and Cancer, Tohoku University)

P-2

The role of Polycomb group protein Rybp in neural development

Eri Kawakami (Institute of Medical Science, The University of Tokyo)

P-3

Cross-talk between Shh-Gli and JSAP1-JNK signaling pathways in regulation of cell proliferation and differentiation

Tokiharu Sato (Cancer Research Institute, Kanazawa University)

P-4

The roles of ER lectins in the protein quality control

Tsutomu Fujimori (Institute for Frontier Medical Sciences, Kyoto University)

P-5

Functional role of Pumilio in RLR-mediated antiviral signaling

Ryo Narita (Institute for Virus Research, Kyoto University)

P-6

RIG-like receptor-independent antiviral response to murine leukemia virus mediated by zinc finger antiviral protein

Hanna Lee (Research Institute for Microbial Diseases, Osaka University)

P-7

A hyper-acidic tag (FATT-tag) enables soluble expression and easy production of extracellular proteins in *E.coli* with a simplified refolding protocol

Takeshi Sangawa (Institute for Protein Research, Osaka University)

P-8

Coxsackievirus B3 is an oncolytic virus with immunostimulatory properties that is active against lung adenocarcinoma

Shohei Miyamoto (Medical Institute of Bioregulation, Kyushu University)

P-9

Role of CD72 polymorphism in development of autoimmune disease in *lpr* mice

Miduo Xu (Medical Research Institute, Tokyo Medical and Dental University)

P-10

Hemodynamics-dependent valvulogenesis of zebrafish heart mediated by microRNA-21

Toshihiro Banjo (Institute of Development, Aging and Cancer, Tohoku University)

P-11

Heat shock inducible protein abolishes yeast prions together with ER stress

Chie Arai (Institute of Medical Science, The University of Tokyo)

P-12

Undifferentiated cancer stem cell-like phenotypes induced by Rb-p53 inactivation
Shunsuke Kitajima (Cancer Research Institute, Kanazawa University)

P-13

Roles of a transmembrane metalloprotease ADAM10 in zebrafish vasculogenesis
Anna Tomosawa (Institute for Frontier Medical Sciences, Kyoto University)

P-14

HTLV-1 bZIP factor-mediated dysfunction of regulatory T cells *in vivo*
Paola Miyazato (Institute for Virus Research, Kyoto University)

P-15

A trial to form an organ from ES cells--- a rat thymus in rat-nude mouse chimera
Ayako Isotani (Research Institute for Microbial Diseases, Osaka University)

P-16

***In vitro* reconstitution of homotypic membrane fusion in ER**
Shintaro Sugiura (Institute for Protein Research, Osaka University)

P-17

Escape of proteins from mitochondria upon mitophagy
Shotaro Saita (Medical Institute of Bioregulation, Kyushu University)

P-18

Discovery of the pro-apoptotic genes induced by tumor suppressor p53
Nurmaa Dashzeveg (Medical Research Institute, Tokyo Medical and Dental University)

P-19

Neural correlates of the human urge to imitate
Sugiko Hanawa (Institute of Development, Aging and Cancer, Tohoku University)

P-20

Cleavage of hepatocyte growth factor activator inhibitor-1 by membrane-type MMP-1 stimulates tumor invasive growth
Takahiro Domoto (Cancer Research Institute, Kanazawa University)

P-21

Modelling Duchenne muscular dystrophy (DMD) with human induced pluripotent stem cells
Emi Shoji (Institute for Frontier Medical Sciences, Kyoto University)

19:00 ~ 21:00

Reception

June 15, 2012

9:00 ~ 10:40

Session 2: Cancer and Stem Cell Biology

Chairs: Chikashi Ishioka, Yasufumi Sato

S2-1 (9:00 ~ 9:30)

Roles of PI3K-AKT-mTOR signaling in the maintenance of the stem cell properties in normal hematopoiesis and leukemia

Atsushi Hirao (Cancer Research Institute, Kanazawa University)

S2-2 (9:30 ~ 10:00)

Roles of Ral GTPase in bladder cancer progression

Hisanori Horiuchi (Institute of Development, Aging and Cancer, Tohoku University)

S2-3 (10:00 ~ 10:40)

Antiangiogenesis in hepatocellular carcinoma

Dan G. Duda (Harvard University, Massachusetts General Hospital, Boston, USA)

Coffee Break 10:40 ~ 11:00

11:00 ~ 12:00

Session 3: Immune Regulation

Chairs: Toshiyuki Takai, Kouetsu Ogasawara

S3-1 (11:00 ~ 11:30)

Mechanisms of immune evasion by a protozoan parasite *Toxoplasma gondii*

Masahiro Yamamoto (Research Institute for Microbial Diseases, Osaka University)

S3-2 (11:30 ~ 12:00)

Mucosal decisions for mutualism, inflammation and elimination

Hiroshi Kiyono (Institute of Medical Science, The University of Tokyo)

12:00 ~ 13:30

Lunch and Network Organizer Meeting

13:30 ~ 15:10

Session 4: Molecular Biology

Chairs: Manabu Fukumoto, Shuntaro Ikawa

S4-1 (13:30 ~ 14:00)

The role of glutamate transporters in the pathogenesis of glaucoma

Kohichi Tanaka (Medical Research Institute, Tokyo Medical and Dental University)

S4-2 (14:00 ~ 14:30)

Functions of Mob1 tumor suppressor genes *in vivo*

Akira Suzuki (Medical Institute of Bioregulation, Kyushu University)

S4-3 (14:30 ~ 15:10)

Coordinated patterning mechanisms of blood vessels and peripheral nerves

Yosuke Mukoyama (National Heart, Lung, and Blood Institute, NIH, Bethesda, USA)

Coffee Break 15:10 ~ 15:30

15:30 ~ 16:30

Session 5: Protein Biology

Chairs: Shinri Tamura, Akira Yasui

S5-1 (15:30 ~ 16:00)

Homeostasis and quality control of proteins in cells

Nobuko Hosokawa (Institute for Frontier Medical Sciences, Kyoto University)

S5-2 (16:00 ~ 16:30)

The role of supersaturation in aberrant protein aggregation

Yuji Goto (Institute for Protein Research, Osaka University)

16:30 ~ 16:50

Commendation Ceremony for Young Investigator Award

Masanobu Satake

(Director of Institute of Development, Aging and Cancer, Tohoku University)

Closing Remarks

Masanobu Satake

(Director of Institute of Development, Aging and Cancer, Tohoku University)
