

# Program

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**June 14, 2012**

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Registration 12:00 ~

**12:50**

**Opening Remarks**

**Masanobu Satake**

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

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**13:00 ~ 14:10**

**Session 1: Cell Biology**

**Chairs: Harukazu Nakamura, Kozo Tanaka**

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**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)

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Coffee Break 14:10 ~ 14:30

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**14:30 ~ 15:15**

**Young Investigator Forum I**

**Chair: Tokuo Yamamoto**

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**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)

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Short Break 15:15 ~ 15:25

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**15:25 ~ 16:10**

**Young Investigator Forum II**

**Chair: Yasuhisa Matsui**

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**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)

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Short Break 16:10 ~ 16:20

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**16:20 ~ 17:05**

**Young Investigator Forum III**

**Chair: Toshihiko Ogura**

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**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)

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17:05 ~ 19:00

**Poster Session**

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**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)

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**19:00 ~ 21:00**

**Reception**

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**June 15, 2012**

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**9:00 ~ 10:40**

**Session 2: Cancer and Stem Cell Biology**

**Chairs: Chikashi Ishioka, Yasufumi Sato**

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**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)

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Coffee Break 10:40 ~ 11:00

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**11:00 ~ 12:00**

**Session 3: Immune Regulation**

**Chairs: Toshiyuki Takai, Kouetsu Ogasawara**

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**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)

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**12:00 ~ 13:30**

Lunch and Network Organizer Meeting

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**13:30 ~ 15:10**

**Session 4: Molecular Biology**

**Chairs: Manabu Fukumoto, Shuntaro Ikawa**

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**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)

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Coffee Break 15:10 ~ 15:30

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**15:30 ~ 16:30**

**Session 5: Protein Biology**

**Chairs: Shinri Tamura, Akira Yasui**

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**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)

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**16:30 ~ 16:50**

**Commendation Ceremony for Yong 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)

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