

Program

June 9, 2011

Registration 12:00 ~

13:00

Opening Remarks

Shigetaka Kitajima

(Director of Medical Research Institute, Tokyo Medical and Dental University)

13:10 ~ 14:40

Session 1: Control of Immunity

Chairs: Takeshi Tsubata, Toshiaki Ohteki

S1-1 (13:10 ~ 13:40)

Dendritic cells hemophagocytose to fine-tune immune responses

Toshiaki Ohteki (Medical Research Institute, Tokyo Medical and Dental University)

S1-2 (13:40 ~ 14:10)

The pore-forming mechanism of *Clostridium perfringens* enterotoxin targeting claudins, components of the tight junction

Yasuhiko Horiguchi (Research Institute for Microbial Diseases, Osaka University)

S1-3 (14:10 ~ 14:40)

Lipid-specific adaptive immunity in tuberculosis and AIDS

Masahiko Sugita (Institute for Virus Research, Kyoto University)

Coffee Break 14:40 ~ 15:00

15:00 ~ 15:45

Young Investigator Forum I

Chair: Masaki Noda

Y-1

The discovery of endogenous non-retroviral RNA virus elements and their endogenization process

Masayuki Horie (Research Institute for Microbial Diseases, Osaka University)

Y-2

Non-muscle myosin IIA is a functional entry receptor for herpes simplex virus 1

Yasushi Kawaguchi (Institute of Medical Science, The University of Tokyo)

Y-3

Integrase independent retroviral cDNA integration, which is indefensible with integrase inhibitor

Hiroataka Ebina (Institute for Virus Research, Kyoto University)

15:45 ~ 16:30

Young Investigator Forum II

Chair: Tetsuya Taga

Y-4

Intrathymic perivascular dendritic cells capturing blood-borne antigens conduct central tolerance

Tomohisa Baba (Cancer Research Institute, Kanazawa University)

Y-5

Reconstitution of SNARE-dependent membrane fusion in endolysosomal traffic of *Saccharomyces cerevisiae*

Joji Mima (Institute for Protein Research, Osaka University)

Y-6

Crystal structures of Ero1 and ERdj5 reveal the mechanisms of ER quality control in mammalian cells

Kenji Inaba (Medical Institute of Bioregulation, Kyushu University)

Short Break 16:30 ~ 16:45

16:45 ~ 17:30

Young Investigator Forum III

Chair: Akinori Kimura

Y-7

Regulation of hypoxic cell death by prolyl-hydroxylase PHD3 and PRP19

Koh Nakayama (Medical Research Institute, Tokyo Medical and Dental University)

Y-8

Function of BRCA1 in DNA damage repair and centrosome regulation

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

Y-9

Design of biomaterial scaffolds to control the proliferation and differentiation of stem cells

Masaya Yamamoto (Institute for Frontier Medical Sciences, Kyoto University)

17:30 ~ 19:00

Poster Session

P-1. W-EEM: a web server for module discovery from omics data.

Atsushi Niida (Institute of Medical Science, The University of Tokyo)

P-2. Development of a linker that enables selective introduction of a modifier and facile analysis of an original peptide containing multiple disulfide bridges

Euis Maras Purwati (Institute for Protein Research, Osaka University, Suita, Japan)

**P-3. Protein C-terminome analysis of *in vivo* protease cleavage products
-Its application for Biomarker Discovery-**

Seiji Iguchi (Institute for Protein Research, Osaka University)

**P-4. TRF2 Basic Domain Interacts With Nucleosomal Histones to Stabilize
Chromosome Ends**

Akimitsu Konishi (Medical Research Institute, Tokyo Medical and Dental University)

P-5. A DNA Repair Protein NBS1 Regulates Retroviral Integration Targeting

Yasuteru Sakurai (Institute for Virus Research, Kyoto University)

**P-6. A novel BARD1-interacting protein participates in the regulation of centrosome
and cytokinesis**

Ayako Matsuzawa (Institute of Development, Aging and Cancer, Tohoku University)

**P-7. Enhanced angiogenesis by dual release of platelet-rich plasma and basic fibroblast
growth factor from gelatin hydrogels**

Makoto Matsui (Institute for Frontier Medical Sciences, Kyoto University)

**P-8. Regulation of HB-EGF-dependent cell growth by phosphorylation of FERM
domain of FAK**

Hiroto Mizushima (Research Institute for Microbial Diseases, Osaka University)

**P-9. TSC-22 is upregulated by activation of Ras/MAPK, and suppresses cellular
proliferation.**

Masaki Nakamura (Institute of Medical Science, The University of Tokyo)

**P-10. Functional analysis of Histone Demethylases involved in malignant progression of
tumors**

Minoru Terashima (Cancer Research Institute, Kanazawa University)

**P-11. Regulatory mechanism of the level of BRCA1/BARD1 expression after DNA
damage**

Emiko Maseki (Institute of Development, Aging and Cancer, Tohoku University)

P-12. SIX1 promotes epithelial mesenchymal transition in colorectal cancer through ZEB1 activation

Hiroaki Ono (Medical Research Institute, Tokyo Medical and Dental University)

P-13. Paracrine role of transcription factor NF- κ B in generating breast cancer tumor initiating cells

Mizuki Yamamoto (Institute of Medical Science, The University of Tokyo)

P-14. Deregulated glycogen synthase kinase (GSK) 3 β participates in invasion of glioblastoma

Yuri Chikano (Cancer Research Institute, Kanazawa University)

P-15. Improvement of left ventricular dysfunction and survival prognosis of dilated cardiomyopathy by administration of a novel calcium sensitizer in a mouse model

Takuro ARIMURA (Medical Research Institute, Tokyo Medical and Dental University)

P-16. Control of cardiovascular development by the atypical Rac activator DOCK180

Fumiyuki Sanematsu (Medical Institute of Bioregulation, Kyushu University)

P-17. Stress-activated protein kinase MKK7 regulates axon elongation in developing cerebral cortex

Tokiwa Yamasaki

(Medical Research Institute, Tokyo Medical and Dental University)

P-18. Research for stem cell therapy with primate Parkinsonian model

Asuka Morizane (Institute for Frontier Medical Sciences, Kyoto University)

P-19. Suppression of the novel ER protein Maxer by mutant ataxin-1 in Bergman glia contributes to non-cell-autonomous toxicity.

Hiroki Shiwaku (Medical Research Institute, Tokyo Medical and Dental University)

P-20. Enhanced competitive repopulation ability of hematopoietic stem cells by inhibition of Spred-1

Yuko Tadokoro (Cancer Research Institute, Kanazawa University)

P-21. Immune responses against mycobacteria through C-type lectin receptors

Kenji Toyonaga (Medical Institute of Bioregulation, Kyushu University)

P-22. The CCCH-type Zinc finger protein Zc3h12a is a novel RNase essential for controlling immune responses by regulating mRNA decay

Hidenori Iwasaki (Research Institute for Microbial Diseases, Osaka University)

P-23. Identification of signal pathway involved in infectious Hepatitis C virus (HCV) particle production

Yuichi Abe (Institute for Virus Research, Kyoto University)

P-24. Ultrasound-responsive thrombus treatment with zinc-stabilized gelatin nano complexes of tissue-type plasminogen activator

Yoshiko Uesugi (Institute for Frontier Medical Sciences, Kyoto University)

19:00 ~ 21:00

Reception

June 10, 2011

9:00 ~ 10:00

Session 2: Chromosome Dynamics and Epigenetics

Chairs: Fumitoshi Ishino, Masaaki Muramatsu

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

CDK (cyclin-dependent kinase)- and DDK (Dbf4-dependent kinase)-dependent Regulation of Chromosome Movements in Meiosis

Akira Shinohara (Institute for Protein Research, Osaka University)

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

Role of epigenetics and small RNAs in genome defense and developmental control in mammalian germ cells

Hiroyuki Sasaki (Medical Institute of Bioregulation, Kyushu University)

Short Break 10:00 ~ 10:15

10:15 ~ 11:55

Session 3: Stem Cell and Cancer Biology

Chairs: Jhoji Inazawa, Emi Nishimura

S3-1 (10:15 ~ 10:45)

Mechanisms of mitotic regulation in relation to oncogenesis and anti-cancer therapy

Kozo Tanaka (Institute of Development, Aging and Cancer, Tohoku University)

S3-2 (10:45 ~ 11:15)

The Rb-Ras pathway in malignant progression

Chiaki Takahashi (Cancer Research Institute, Kanazawa University)

S3-3 (11:15 ~ 11:55)

Coordinated activation of Wnt signaling in epithelial and melanocyte stem cells in a shared niche initiates pigmented hair follicle regeneration

Mayumi Ito (New York University School of Medicine, USA)

11:55 ~ 13:10

Lunch and Network Organizer Meeting

13:10 ~ 15:00

Session 4: Topics in Pathological Biology

Chairs: Hiroshi Nishina, Yoshihiro Ogawa

S4-1 (13:10 ~ 13:40)

Which bonds dominate specificity and affinity of antigen-antibody interactions?

Kouhei Tsumoto (Institute of Medical Science, The University of Tokyo)

S4-2 (13:40 ~ 14:20)

The unfolded protein response: A cause and cure for fatty liver disease

Kirsten C. Sadler (Mount Sinai School of Medicine, USA)

S4-3 (14:20 ~ 15:00)

Engineering Fat Cell Fate: Cellular Origin and Transcriptional Control of Brown Fat

Shingo Kajimura (University of California, San Francisco, USA)

Coffee Break 15:00 ~ 15:30

15:30 ~ 16:40

Session 5: Recent Progress of Neuropathology

Chairs: Kohichi Tanaka, Hitoshi Okazawa

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

Challenges towards ES cell therapy for Parkinson's disease

Jun Takahashi (Institute for Frontier Medical Sciences, Kyoto University)

S5-2 (16:00 ~ 16:40)

Damage Control: Role of Parkin and Pink1 in mitochondrial autophagy and Parkinson's disease

Richard J. Youle (NINDS, NIH, USA)

16:40 ~ 17:00

Commendation Ceremony for Yong Investigator Award

Shigetaka Kitajima

(Director of Medical Research Institute, Tokyo Medical and Dental University)
