

# The 9th International Symposium of the Institute Network Timetable

June 19, Thursday

	8:30	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00
Hankyu Corporation, Sanwa Bank hall 3F							13:40 – 14:55 <b>Session 1</b> S-1, S-2, Y-1	B	15:10 – 16:40 <b>Session 2</b> S-3, S-4, S-5	B	16:55 – 17:40 <b>Session 2</b> S-6, Y-2		18:45 – 20:45 <b>Reception</b> Restaurant Minerva 2F	
Large meeting room 3F						12:30 – 13:30 <b>Luncheon Poster Session</b>	13:40				17:40 – 18:40 <b>Poster Session</b>			

↑ Reception                      ↑ Opening Remarks

June 20, Friday

	8:30	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00
Hankyu Corporation, Sanwa Bank hall 3F		8:30 – 10:30 <b>Session 3</b> S-7, S-8, S-9, S-10	B	10:45 – 11:15 <b>Session 3</b> Y-3, Y-4	11:15 – 12:15 <b>Session 4</b> S-11, S-12	12:15 – 13:25 Lunch	13:25 – 14:25 <b>Session 4</b> Y-5, Y-6, Y-7, Y-8	14:25 – 15:10 <b>Session 5</b> Y-9, Y-10, Y-11	B	15:25 – 16:55 <b>Session 5</b> S-13, S-14, S-15	16:55 – 17:10			

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- Commendation for Young Investigator Award & Poster Presentation Award
- Closing Remarks

# Program

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**June 19, 2014**

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**Registration 12:00 -**

**12:30 - 13:30 Luncheon Poster Session**

**13:35 - 13:40 Opening Remarks: Haruki Nakamura**  
(Institute for Protein Research, Osaka University)

**13:40 - 14:55 Session 1. Molecular Targets for Diseases**  
**Chair: Akira Shinohara** (Institute for Protein Research, Osaka University)

**S-1. HIV strategy for acceleration of viral replication *in vivo* and eradication approach of HIV proviral DNA**  
[30 min]  
**Yoshio Koyanagi**  
(Institute for Virus Research, Kyoto University)

**S-2. Small molecule discovery regulating HGF-Met pathway**  
[30 min]  
**Kunio Matsumoto** (Cancer Research Institute, Kanazawa University)

**Y-1. In silico methods for predicting drug targets and new drug indications**  
[15 min]  
**Yoshihiro Yamanishi** (Medical Institute of Bioregulation, Kyushu University)

**14:55 - 15:10** Intermission 1.

**15:10 - 16:40 Session 2. Infection & Immunity**  
**Chair: Hiroaki Miki**  
**Yukako Fujinaga**  
(Research Institute for Microbial Diseases, Osaka University)

**S-3. Epithelial barrier versus botulinum toxin: A key aspect of food-borne botulism pathogenesis**  
[30 min]  
**Yukako Fujinaga** (Research Institute for Microbial Diseases, Osaka University)

**S-4. Mechanisms regulating nucleic acid-sensing Toll-like receptors**  
[30 min]  
**Kensuke Miyake** (Institute of Medical Science, University of Tokyo)

**S-5. Immune responses to pathogens through C-type lectin receptors**

[30 min]

**Sho Yamasaki**

(Medical Institute of Bioregulation, Kyushu University)

**16:40 - 16:55**      Intermission 2.

**16:55 - 17:40**      **Session 2.**      — continued —

**S-6. Architecture of an HIV Nef-mediated endocytosis complex and inhibition of its formation by a single domain antibody**

[30 min]

**Matthias Geyer**

(Center of Advanced European Studies And Research (caesar), Bonn, Germany)

**Y-2. Identification of an arthritogenic CD4+ Th clone in spontaneous autoimmune disease**

[15 min]

**Yoshinaga Ito** (Institute for Frontier Medical Sciences, Kyoto University)

**17:40 - 18:40**      **Poster Session**      — continued —

**P-1**

**iPS cells from tumor-resistant rodent “Naked mole-rat” do not have tumorigenic potential due to their transcriptional derepression of *Arf***

**Shingo Miyawaki**

(Institute for Genetic Medicine, Hokkaido University)

**P-2**

***In vitro* and *in vivo* antitumor effects of Romidepsin analogs as novel PI3K/HDAC dual inhibitors**

**Jin Lee**

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

**P-3**

**Development of easy and speedy detection system for Nipah and Hendra virus by reverse transcription smart amplification process (RT-SmartAmp)**

**Mutsumi Awano**

(Institute of Medical Science, University of Tokyo)

**P-4**

**Frequent gain-of-function mutations of *RHOA* in diffuse-type gastric carcinoma.**

**Hiroto Katoh**

(Medical Research Institute, Tokyo Medical and Dental University)

**P-5**

**NLRP3 mediates NF- $\kappa$ B activation and cytokine gene induction under various cellular stress conditions**

**Takeshi Kinoshita**

(Cancer Research Institute, Kanazawa University)

**P-6**

**Innate immune factor Lipocalin2 as a sperm maturation factor.**

**Hitomi Watanabe**

(Institute for Frontier Medical Sciences, Kyoto University)

**P-7**

**Identification and characterization of IL-15-expressing cells *in vivo***

**Guangwei Cui**

(Institute for Virus Research, Kyoto University)

**P-8**

**Structural characterization of the transmembrane-juxtamembrane region of FGFR3 in lipid bilayers**

**Hiroko Tamagaki**

(Institute for Protein Research, Osaka University)

**P-9**

**Visualization of dynamic behavior of IZUMO1 during sperm-egg fusion**

**Yuhkoh Satouh**

(Research Institute for Microbial Diseases, Osaka University)

**P-10**

**Prions disturb post-Golgi membrane traffic to the cell surface**

**Keiji Uchiyama**

(Institute for Enzyme Research, University of Tokushima)

**P-11**

**Deciphering function of CHD8L isoform in mouse development and differentiation**

**Yuta Katayama**

(Medical Institute of Bioregulation, Kyushu University)

**P-12**

**Differentiation of macrophages in the microenvironment of pancreatic cancer**

**Shintaro Takeuchi**

(Institute for Genetic Medicine, Hokkaido University)

**P-13**

**Molecular mechanisms of formation of neutrophil extracellular traps**

**Kyosuke Shishikura**

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

**P-14**

***In vivo* role of the *Shigella flexneri* effector Osp I**

**Takahito Sanada**

(Institute of Medical Science, University of Tokyo)

**P-15**

**Cardio-toxicity screening system using human iPS-derived cardiomyocytes**

**Junko Kurokawa**

(Medical Research Institute, Tokyo Medical and Dental University)

**P-16**

**Redirection of central metabolism in Rb deficient cancer cells**

**Susumu Kohno**

(Cancer Research Institute, Kanazawa University)

**P-17**

**The soluble form of CTLA-4 in regulatory T cells-mediated suppression**

**Motonao Osaki**

(Institute for Frontier Medical Sciences, Kyoto University)

**P-18**

**The mode of expression and physiological roles of SecDF paralogs, protein translocation enhancing factors, in *Vibrio alginolyticus***

**Eiji Ishii**

(Institute for Virus Research, Kyoto University)

**P-19**

**Shugoshin 2-dependent formation of silent chromatin at chromosome ends**

**Sanki Tashiro**

(Institute for Protein Research, Osaka University)

**P-20**

**PILR $\alpha$  negatively regulates DSS induced experimental colitis**

**Kazuki Kishida**

(Research Institute for Microbial Diseases, Osaka University)

**P-21**

**Ectopic Aire expression in thymic cortex reveals inherent properties of Aire as a stromal factor for medullary thymic microenvironment**

**Hitoshi Nishijima**

(Institute for Enzyme Research, University of Tokushima)

**P-22**

**Identification of a molecule critical for degranulation of mast cells and anaphylactic reaction**

**Kana Ogawa** (Medical Institute of Bioregulation, Kyushu University)

**P-23**

**Interaction between normal and transformed epithelial cells -Roles for caveolae microdomains and Caveolin-1-**

**Atsuko Ohoka**

(Institute for Genetic Medicine, Hokkaido University)

**P-24**

**Cell surface TLR3 on CD8-positive dendritic cell and an essential role of the cleaved N-fragment of TLR3 ectodomain in polyI:C sensing**

**Yusuke Murakami** (Institute of Medical Science, University of Tokyo)

**P-25**

**Association of the RYR3 gene polymorphisms with atherosclerosis in elderly Japanese population**

**Chenxi Zhao**

(Medical Research Institute, Tokyo Medical and Dental University)

**P-26**

**A Role for KDM5B on epithelial-mesenchymal transition in cancer cells**

**Shoichiro Tange** (Cancer Research Institute, Kanazawa University)

**P-27**

**Production of recombinant laminin fragment for X-ray crystallography**

**Mamoru Takizawa**

(Institute for Protein Research, Osaka University)

**P-28**

**Identification of promoter region of human D-amino acid oxidase (hDAO) gene and its interacting proteins - Search for the regulation of hDAO expression**

**Diem Hong Tran**

(Institute for Enzyme Research, University of Tokushima)

**18:45 - 20:45 Reception.**

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June 20, 2014

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**8:30 - 10:30      Session 3.    Molecular   &   Structural   Biology**

**Chair:            Atsushi Nakagawa**

**Genji Kurisu**

(Institute for Protein Research, Osaka University)

**S-7. Architectural noncoding RNAs controlling subnuclear organization and gene expression**

[30 min]

**Tetsuro Hirose** (Institute for Genetic Medicine, Hokkaido University)

**S-8. Epigenetic regulation of mammalian sex determination by histone demethylation**

[30 min]

**Makoto Tachibana**

(Institute for Enzyme Research, University of Tokushima)

**S-9. Cooperative regulation of tissue-specific alternative splicing by multiple splicing factors determines ligand-binding specificity of FGF receptors.**

[30 min]

**Hidehito Kuroyanagi**

(Medical Research Institute, Tokyo Medical and Dental University)

**S-10. Structure-based development of selective type II topoisomerase-targeting anticancer drugs**

[30 min]

**Nei-Li-Chan**

(Institute of Biochemistry and Molecular Biology , College of Medicine ,  
National Taiwan University)

**10:30 - 10:45**            Intermission 3.

**10:45 - 11:15**            **Session 3.            — continued —**

**Y-3. A novel function of the N-glycan revealed by the crystal structure of  $\alpha$ -L-iduronidase**

[15 min]

**Nobuo Maita**

(Institute for Enzyme Research, University of Tokushima)

**Y-4. Mechanism for signaling through the membrane in activation of receptor tyrosine kinase [15min]**  
**Takeshi Sato** (Institute for Protein Research, Osaka University)

**11:15 - 12:15 Session 4. Cell Migration & Cancer Biology**  
**Chair: Junichi Takagi** (Institute for Protein Research, Osaka University)

**S-11. Semaphorin and neuropilin functions in control of cancer cell behavior**  
[30 min]  
**Luca Tamagnone**  
(Lab of Cancer Cell Biology , Candiolo Cancer Institute-FRO(IRCCS) and  
Department of Oncology at the University  
of Torino, Italy)

**S-12. Canonical NHEJ on mitotic chromosome induces genome instability and is suppressed by XRCC4 through M-phase phosphorylation by CDK**  
[30 min]  
**Miki Shinohara**  
(Institute for Protein Research, Osaka University)

**12:15 - 13:25 Lunch**

**13:25 - 14:25 Session 4 — continued —**

**Y-5. Germ-line and somatic mutations of the MEK gene modulate its kinase activity in congenital Ras-MAPK syndromes and sporadic cancers**  
[15 min]  
**Yuji Kubota**  
(Institute of Medical Science, University of Tokyo)

**Y-6. Novel molecular mechanisms of acquired resistance to gefitinib in lung adenocarcinoma**  
[15 min]  
**Asuka Nakata**  
(Cancer Research Institute, Kanazawa University)

**Y-7. The role of Vasohibin-2 in tumor growth and angiogenesis**  
[15 min]  
**Yasuhiro Suzuki**  
(Institute of Development, Aging and Cancer, Tohoku University)



**Y-8. Recent progress in the research of senescence- and cancer-resistant rodent, Naked mole-rat (*Heterocephalus glaber*)**

[15 min]

**Kyoko Miura**

(Institute for Genetic Medicine, Hokkaido University)

**14:25 – 15:10      Session 5.    Cell Signaling in Development & Diseases**  
**Chair:    Takahisa Furukawa** (Institute for Protein Research, Osaka University)

**Y-9. Dysregulation of MDA5-dependent signaling causes lupus-like nephritis**

[15 min]

**Hiroki Kato**

(Institute for Virus Research, Kyoto University)

**Y-10. Roles of vascular endothelial stem-like cells in the liver regeneration and maintenance**

[15 min]

**Taku Wakabayashi**

(Research Institute for Microbial Diseases, Osaka University)

**Y-11. Identification of a new dendritic cell progenitor with prominent plasmacytoid dendritic cell developmental potential**

[15 min]

**Nobuyuki Onai**

(Medical Research Institute, Tokyo Medical and Dental University)

**15:10 - 15:25**    Intermission 4.

**15:25 – 16:55      Session 5      - continued -**

**S-13. Heparan sulfate as a regulator of chondrocyte differentiation**

[30 min]

**Andrea Vortkamp**

(University Duisburg Essen, Germany)

**S-14. Cross-regulation of redox balance and cell proliferation by Keap1-Nrf2 pathway**

[30 min]

**Hozumi Motohashi**

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

**S-15. Molecular dynamics underlying mouse sperm maturation.**

[30 min]

**Gen Kondoh**

(Institute for Frontier Medical Sciences, Kyoto University)

**16:55 - 17:10 Closing**

**Commendation for Young Investigator Award & Poster Presentation Award  
Chair: Haruki Nakamura**

(Institute for Protein Research, Osaka University)

**Closing Remarks: Eisuke Mekada**

(Research Institute for Microbial Diseases, Osaka University)