



Tohoku University Global COE
for conquest of Signal Transduction Diseases with “Network Medicine”

Network Medicine Winter Camp of GCOE 2012 ~Challenge to Advanced Research through Interdisciplinary Exchange~

Date: February 4, 2012 (Sat.) 13:20-22:00 February 5, 2012 (Sun.) 9:00-12:15 Place: “Hananoyu” Akiu Hot Spa, Sendai

* * * * * Oral Program * * * * *

Feb. 4th, Saturday

13:20 — 13:30 **Opening Remark** Hideki Katagiri

Session 1:

Chairperson, Takanori So (Microbiology and Immunology, Grad. Sch. of Med.)

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| 13:30 — 13:50 | O-1 | Mast cell regulation and competitive binding of Nogo and MHC class I to PIR-B
Shota Endo (Experimental Immunology, IDAC) |
| 13:50 — 14:10 | O-2 | NDR-mediated phosphorylation of Rabin8 and its role in ciliogenesis
Yuta Amagai (Biomolecular Sciences, Grad. Sch. of Life Sci.) |
| 14:10 — 14:30 | O-3 | Bach1 deficiency protects pancreatic β-cells from oxidative stress injury
Keiichi Kondo (Advanced Therapeutics for Metabolic Diseases, Grad. Sch. of Med.) |
| 14:30 — 14:50 | O-4 | Development of an inducible liver-specific Nrf1 knockout mouse that has allowed a metabolomic analysis of the development of NASH in adult animals.
Tadayuki Tsujita (Molecular Medicine and Therapy, Grad. Sch. of Med.) |
| 14:50 — 15:10 | O-5 | Analysis of <i>Gata1</i> gene regulation using <i>Gata1</i> BAC GFP reporter mice
Jun Takai (Medical Biochemistry, Grad. Sch. of Med.) |

~ Coffee Break (20min) ~

Session 2:

Chairperson, Keiko Nakayama (Cell Proliferation, Grad. Sch. of Med.)

15:30 — 16:30 Special Lecture **Seeing in silico is believing? An informal introduction to Bioinformatics.**
Kengo Kinoshita (Applied Information Sciences, Grad. Sch. of Inf. Sci.)

~ Coffee Break (20min) ~

Session 3:

Chairperson, Kazumasa Ohashi (Biomolecular Sciences, Grad. Sch. of Life Sci.)

16:50 — 17:10 O-6 **Failure of acrosome formation in SMAP2 KO mouse**
Tomo Funaki (Molecular Immunology, IDAC)

17:10 — 17:30 O-7 **The therapeutic effect of imiquimod on B16F10 melanoma by regulating the expression of B7H1 on myeloid derived suppressor cells (MDSCs).**
Yumi Kambayashi (Dermatology, Grad. Sch. of Med.)

17:30 — 17:50 O-8 **Physiological impact of prostaglandins transport at brain barriers**
Masanori Tachikawa (Membrane Transport and Drug Targeting, Grad. Sch. of Pharm. Sci.)

17:50 — 18:10 O-9

Tomokazu Souma (Nephrology, Endocrinology and Hypertension / Medical Biochemistry, Grad. Sch. of Med.)

~ Break and Dinner (1hr 50min) ~

Poster Session & Reception

20:00 — 21:00 **Group Discussion (1hr)**

21:00 — 22:00 **Free Discussion (1hr)**

Feb. 5th , Sunday

Session 4:

Chairperson, Hozumi Motohashi (Center for Radioisotope Sciences, Grad. Sch. of Med.)

- 9:00 — 9:20 O-10 **Utility of xenograft models using NOG-eGFP mice for a high quality sampling system of Pancreato-Biliary cancer cells**
Kentaro Shima (Gastroenterological Surgery, Grad. Sch. of Med.)
- 9:20 — 9:40 O-11 **Regulatory mechanism of pluripotency manifestation in Muse cells.**
Toru Murakami (Stem Cell Biology and Histology, Grad. Sch. of Med.)
- 9:40 — 10:00 O-12 **Effect of the bacterial flora on the skin disease**
Ryoko Shimada (Dermatology, Grad. Sch. of Med.)
- 10:00 — 10:20 O-13 **Bach1-mediated suppression of p53 is inhibited by p19ARF independently of MDM2**
Kazushige Ota (Biochemistry, Grad. Sch. of Med.)
- 10:20 — 10:40 O-14 **Functional analysis of Keap1-Nrf2 system using transgenic mice**
Takafumi Suzuki (Medical Biochemistry, Grad. Sch. of Med.)

~ Coffee Break (20min) ~

Session 5:

Chairperson, Masanobu Satake (Molecular Immunology, IDAC)

- 11:00 — 12:00 Special Lecture **Next Generation Sequencer for Medical Genomic**
Ituro INOUE (National Institute of Genetics)
- 12:00 — 12:15 **Awards Ceremony** Masayuki Yamamoto
Concluding Remark