



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

Network Medicine Winter Camp of GCOE 2011 ~The Cultivation for New Generation of Scientists~

Date: Feb.5 th (Sat.),2011 13:20-22:00 Feb.6 th (Sun.),2011 9:00-11:50 Place: “New Mitoya” Akiu Hot Spa, Sendai

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

Feb. 5th , Saturday

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

Session 1:

Chairperson, Shota Endo (Experimental Immunology, IDAC, Tohoku Univ.)

- | | | |
|---------------|-----|---|
| 13:30 — 13:50 | O-1 | Dysregulation of clathrin-dependent traffic predisposes <i>SMAP1</i>-targeted mice to develop myelodysplastic syndrome and acute myeloid leukemia
Syunsuke Kon (Molecular Immunology, IDAC, Tohoku Univ.) |
| 13:50 — 14:10 | O-2 | Y chromosome-linked B cell deficiency in mice
Shulan Sun (Microbiology and Immunology, Grad. Sch. of Med., Tohoku Univ.) |
| 14:10 — 14:30 | O-3 | Intravenous immunoglobulin inhibits autoantibody production by B-1 cells
Jun Tanaka (Experimental Immunology, IDAC, Tohoku Univ.) |
| 14:30 — 14:50 | O-4 | An OX40 co-signalosome drives T-lymphocyte survival
Takanori So (Microbiology and Immunology, Grad. Sch. of Med., Tohoku Univ.) |

~ Coffee Break (20min) ~

Session 2:

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

- 15:10 — 15:30 O-5 **Epithelial-mesenchymal transition induces an Lgr5-positive tumorigenic subpopulation in Runx3-deficient mouse gastric epithelial cells**
 Dominic Chih-Cheng VOON (Cancer Biology Program, Cancer Sci. Inst. Singapore, National Univ. of Singapore)
- 15:30 — 15:50 O-6 **Identification and functional roles of Rho-GEFs that are involved in the Wnt-PCP pathway and cell migration**
 Takuji Tsuji (Biomolecular Sciences, Grad. Sch. of Life Sci., Tohoku Univ.)
- 15:50 — 16:10 O-7 **The role of transcription factor Bach1 in cancer-stroma interaction**
 Andrey Brydun (Biochemistry, Grad. Sch. of Med., Tohoku Univ.)
- ~ Coffee Break (20min) ~

Session 3:

Chairperson, Shinichi Egawa (Gastroenterological Surgery, Grad. Sch. of Med., Tohoku Univ.)

- 16:30 — 16:50 O-8 **Novel functions of stanniocalcin-1(STC1) through Uncoupling Protein 2 (UCP2) up-regulation; Promoting Survival of Cancer Cells under Oxidative Stress and Inducing the Uncoupling Respiration (Warburg effect)**
 Shinya Okouchi (Respiratory Med., Grad. Sch. of Med., Tohoku Univ.)
- 16:50 — 17:10 O-9 **Roles of the Keap1-Nrf2 system plays in pancreatic β -Cells**
 Akira Uruno (Medical Biochemistry, Grad. Sch. of Med., Tohoku Univ.)
- 17:10 — 17:30 O-10 **A novel approach for assessment of transplanted islets using imaging modalities**
 Naoaki Sakata (Hepato-Biliary-Pancreatic Surgery, Grad. Sch. of Med., Tohoku Univ.)
- 17:30 — 17:50 O-11 **Curcumin a potent inhibitor of the AKT-mTOR pathway, induces apoptosis in uterine leiomyosarcoma cells**
 Maria Wong Tze Fang (Obstetrics and Gynecology, Grad. Sch. of Med., Tohoku Univ.)

~ Dinner (1hr 55min) ~

Poster Session & Reception

- | | |
|---------------|----------------------|
| 19:45 — 20:30 | odd numbers (45min) |
| 20:30 — 21:15 | even numbers (45min) |

Feb. 6th , Sunday

Session 4:

Chairperson, Sumio Ohtsuki (Transport and Drug Targeting, Grad. Sch. of Pharm. Sci., Tohoku Univ.)

- 9:00 — 9:20 O-12 **Interaction between furry and alpha-tubulin deacetylase SIRT2**
Tomoaki Nagai (Biomolecular Sci., Grad. Sch. of Life Sci., Tohoku Univ.)
- 9:20 — 9:40 O-13 **Cyclophilin A is a novel biomarker for aortic aneurysms and atherosclerotic plaque instability**
Kimio Satoh (Cardiovascular Med., Grad. Sch. of Med., Tohoku Univ.)
- 9:40 — 10:00 O-14 **GATA2 function in urogenital development**
Takashi Moriguchi (Biochemistry, Grad. Sch. of Med., Tohoku Univ.)
- 10:00 — 10:20 O-15 **Quantitative proteomic and metabolomic approach to clarify mechanism of gemcitabine resistance in pancreatic cancer**
Ken Ohmine (Transport and Drug Targeting, Grad. Sch. of Pharm. Sci., Tohoku Univ.)

~ Coffee Break (20min) ~

Session 5:

Chairperson, Masaaki Kitada (Stem Cell Biology and Histology, Grad. Sch. of Med., Tohoku Univ.)

- 10:40 — 11:00 O-16 **The regulation of p120 catenin on E-cadherin-mediated intercellular adhesion strengthening**
Chu Yeh-Shiu (Systems Biology, Inst. of Molecular and Cell Biology, Singapore)
- 11:00 — 11:20 O-17 **When you need a transgenic mouse: Introduction of GCOE transgenic animal platform**
Masanobu Morita (Biochemistry, Grad. Sch. of Med., Tohoku Univ.)
- 11:20 — 11:40 O-18 **The miRNA expression profiles of medulloblastomas in *Ptc1* heterozygous mice**
Jun Yasuda (Cell Biology, The JFCR-Cancer Inst.)
- 11:40 — 11:50 **Concluding Remark** Masayuki Yamamoto