

NAIST Global COE
International Symposium 2008

Cell Signaling

November 13-14, 2008

Nara Institute of Science and Technology (NAIST) Millennium Hall

Organizer: Yasumasa Bessho · Seiji Takayama (NAIST, Nara)

November 13 (Thu) 2008

13:00-13:10 Opening remarks: **Ko Shimamoto** (NAIST)

Session 1

Chair person: **Yasumasa Bessho & Carol A. Erickson**

13:10-13:40 **Carol A. Erickson** Section of Molecular and Cellular Biology, University of California-Davis, Davis, CA 95616.

Pathfinding by the neural crest: the smart cell scenario.

13:40-14:10 **Kazuo Emoto** National Institute of Genetics / SOKENDAI, Japan

The cellular and molecular basis for dendritic patterning and plasticity

14:10-14:30 *Break*

14:30-15:00 **Mutsuhito Ohno** Institute for Virus Research, Kyoto University, Japan

Regulations of nucleo-cytoplasmic RNA distribution

15:00-15:30 **Mikio Furuse** Kobe University Graduate School of Medicine, Japan

Remodeling of claudin-based tight junctions

15:30-16:00 **Brian J. Mitchell** Department of Cell and Molecular Biology, Northwestern University, Feinberg School of Medicine, Chicago USA

The PCP pathway instructs the planar orientation of ciliated cells in the *Xenopus* larval skin.

Poster session

16:00-17:00 (Odd numbers)

17:00-18:00 (Even numbers)

18:20- *Mixer*

November 14 (Fri) 2008

Session 2

Chair person: **Maurine E. Linder & Hiroshi Itoh**

10:00-10:30 **Hiroshi Itoh** Graduate School of Biological Sciences, Nara Institute of Science and Technology (NAIST), Japan
G protein signaling and its regulatory molecules

10:30-11:00 **Maurine E. Linder** Department of Cell Biology and Physiology
Washington University School of Medicine
St. Louis, MO USA
Mechanism and Functional Consequences of Protein Palmitoylation

11:00-11:30 **Masayuki Miura**
Department of Genetics, Graduate School of Pharmaceutical Sciences, University of Tokyo and CREST, JST, Tokyo, Japan
Dynamics of cell death signaling regulates animal development

11:30-12:00 **Shigekazu Nagata** Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Yoshida, Konoe, Sakyo-ku, Kyoto 606-8501, Japan
Apoptosis, and engulfment of dead cells

12:00-13:30 ***Lunch***

Session 3

Chair person: **Seiji Takayama & Veronica E. Franklin-Tong**

13:30-14:00 **Veronica E. Franklin-Tong** School of Biosciences, University of Birmingham, Edgbaston, Birmingham. B15 2TT, UK
Self-incompatibility in Papaver: signaling to programmed cell death in incompatible pollen and identification of the pollen S-determinant

14:00-14:30 **Seiji Takayama** Graduate School of Biological Sciences, Nara Institute of Science and Technology (NAIST), Japan
Self-incompatibility signaling in Brassica

14:30-15:00 **Tetsuya Higashiyama** Division of Biological Science, Graduate School of Science, Nagoya University; Nagoya, Japan; PRESTO, JST, JAPAN
Pollen Tube Attractants Secreted from the Synergid Cell

15:00-15:30 **Yasushi Ishihama** Institute for Advanced Biosciences, Keio University
Global Protein Phosphorylation Profiling by High Performance Phosphoproteomics Approaches

15:30- Concluding remarks: **Carol A. Erickson** (U.C. Davis)

Poster Session

No.	Name	Title
P-01	Erin Schwartz (UCD)	The role of the Mus81-Mms4 endonuclease in reinitiation and repair of stalled replication forks
P-02	Sumiko Adachi (BS-NAIST)	Expression of B2-type CDK is controlled by DNA damage signaling in <i>Arabidopsis thaliana</i>
P-03	Ryan Janke (UCD)	Regulation of homologous recombination by the DNA damage response: Mechanism and function of Rad55 phosphorylation
P-04	Huwei Wang (IGDB-CAS)	The <i>Xenopus</i> maternal gene Xlacs may encode a negative regulator of oocytes G2/M transition through palmytoylation
P-05	Daniel K. Rozelle (UCD)	Chromosomal passenger proteins coordinate spindle disassembly with septin dynamics
P-06	Lori Krueger (UCD)	LET-99 acts through G-protein signaling to regulate spindle positioning forces during asymmetric cell division in <i>C. elegans</i> embryos
P-07	Hong Yu (IGDB-CAS)	Inferring causal relationships among different histone modifications and gene expression
P-08	Andrew Hill (UCD)	Understanding the assembly of TOR complexes 1 and 2
P-09	Masahiro Maruoka (BS-NAIST)	Regulation and the function of Abl tyrosine kinase by Abl-interactor-1
P-10	Theresa Phan (UCD)	Targeted DNA recognition by thyroid hormone and retinoic acid receptors
P-11	Yu Oikawa (BS-NAIST)	Down-regulation of CIBZ, a novel substrate of caspase-3, induces apoptosis
P-12	Yusuke Nagai (BS-NAIST)	Critical and specific regulation of Gs signaling by Ric-8B
P-13	Guo Shaoshi (IGDB-CAS)	Arginine methylation of srGAP2 mediated by PRMT5 regulates the cell migration
P-14	Yasutaka Imai (BS-NAIST)	Analysis of <i>IRE1a</i> induction mechanisms under ER stress
P-15	Craig Skinner (UCD)	Kanpai! Whiskey-2: a toast to long life in <i>Saccharomyces cerevisiae</i>
P-16	Rima Mendonsa (UCD)	The role of phospholipid/syntaxin interactions in mediating vesicular fusions
P-17	Hui Xiao (IGDB-CAS)	Lysosome biogenesis mediated by <i>vps-18</i> affects apoptotic cell degradation in <i>C. elegans</i>

P-18	Marina Meyerzon (UCD)	The <i>C. elegans</i> kinesin1 functions in nuclear migration
P-19	Xiuping Fu (IGDB-CAS)	The neuronal membrane protein retrolinkin interacts with endophilin 1, a protein essential for endocytosis
P-20	Dan Wang (IGDB-CAS)	<i>Drosophila</i> Fragile X mental retardation gene <i>dfmr1</i> interacts with actin cytoskeleton regulator <i>twinfilin</i>
P-21	Shih-Yu Chen (UCD)	Role of sumoylation in MAX-1 mediated axon guidance signaling pathways in <i>C.elegans</i>
P-22	Tao Yang (IGDB-CAS)	Characterization how POSH regulates development of rodent cerebral cortex
P-23	Tsukasa Sanosaka (BS-NAIST)	Identification of genes regulating astrocyte differentiation of mid-gestational neural precursor cells
P-24	Wenjie Sun (IGDB-CAS)	Targeting delivery of human NGF-b for peripheral nerve regeneration
P-25	Akiyo Kamitani (BS-NAIST)	Regulation of differentiation and migration of parathyroid during development by transcription factor MafB
P-26	Yi Zhang (IGDB-CAS)	The <i>Drosophila</i> homolog of human ACSL4 is required for lipid storage and modulates Wingless signaling
P-27	Sho Takano (BS-NAIST)	gorgon, a novel mutant defective in the shoot meristem and organ development
P-28	Yoshifumi Ikeyama (BS-NAIST)	Analysis of PUCHI gene that regulates lateral root initiation in <i>Arabidopsis thaliana</i>
P-29	Xiaoli Guo (IGDB-CAS)	Positional candidate cloning and functional studies of white spotting genes in mice
P-30	Melissa L. Harris (UCD)	Directing pathfinding along the dorsolateral path - the role of EDNRB2 and EphB2 in overcoming inhibition
P-31	Takashi Yoshino (BS-NAIST)	Epithelial integrity requires a signal from underlying stroma: the nephric coelomic epithelium as a novel experimental model