

8th International Conference on Protein Phosphatases

November 12-14, 2008, Maebashi, Japan

Program

Wednesday, November 12

Opening Remarks

9:00-9:10 Mamoru Suzuki (President of Gunma University)
Toshiyuki Takeuchi (Director, IMCR, Gunma University)

Opening Lecture (Chair: Shinri Tamura)

9:10-10:00 Eisuke Nishida (Kyoto University)
ERK MAP kinase signaling: Regulatory mechanisms and function

Session I (Session chairs: David L. Brautigan and Reiko Sugiura)

10:00-10:20 Hiroshi Shima (Research Institute of Miyagi Cancer Center)
NIPP1 directs PP1 to dephosphorylate the essential pre-mRNA
splicing factor, Sap155

10:20-10:50 Mathieu Bollen (University of Leuven, Belgium)
The expanding toolkit of protein phosphatase-1

10:50-11:20 Shirish Shenolikar (Duke-NUS Graduate Medical School,
Singapore)
Proteasome degradation of GADD34: Novel mechanism for protein
phosphatase-1 regulation

11:20-11:40 Noriyuki Sueyoshi (Kagawa University)
Ca²⁺/calmodulin-dependent protein kinase phosphatase (CaMKP)
is indispensable for normal embryogenesis in zebrafish, *Danio
rerio*

11:40-11:55 Satoru Mochida (Cancer Research UK, United Kingdom)
Identification of the PP2A heterotrimer complex that
dephosphorylates the substrates of cyclin-dependent kinases in
Xenopus egg extracts <Short talk 1>

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

Session II (Session chairs: Shirish Shenolikar and Masato Ogata)

13:30-14:00 Susanne Klumpp (Westfaelische Wilhelms-University, Germany)

- Protein histidine phosphatase in vertebrates: A novel player in signal transduction
- 14:00-14:20 Shinri Tamura (Tohoku University)
- Protein phosphatase 2C ϵ is an endoplasmic reticulum integral membrane protein that dephosphorylates the ceramide transport protein CERT to enhance its association with organelle membranes
- 14:20-14:50 David L. Brautigan (University of Virginia School of Medicine, USA)
- Biochemistry and subunit organization of protein phosphatase-6
- 14:50-15:10 Reiko Sugiura (Kinki University)
- Molecular genetic analysis of the calcineurin-mediated signaling pathways

15:10-15:25 ***Coffee Break***

Session III (Session chairs: Mathieu Bollen and Toshio Watanabe)

- 15:25-15:55 David M. Virshup (Duke-NUS Graduate Medical School Singapore, Singapore)
- Protein phosphatases in the Wnt signaling pathway
- 15:55-16:15 Tatsuya Maeda (The University of Tokyo)
- Delayed activation kinetics ensures the signalling specificity of the hyperosmotic stress-responsive MAP kinase pathway in yeast
- 16:15-16:35 Satoshi Harashima (Osaka University)
- Functional genomics of protein phosphatases in a single celled eukaryote
- 16:35-16:55 Katsumi Yamashita (Kanazawa University)
- JNK- and SCF ^{β -TrCP}-mediated destruction of Cdc25B controls cell cycle arrest by non-genotoxic stress
- 16:55-17:10 Takayuki Murata (Aichi Cancer Center Research Institute)
- TORC2 promotes EBV reactivation from latency via calcineurin
- <Short talk 2>
- 17:10-17:25 Shin-ichi Hisanaga (Tokyo Metropolitan University)
- Effect of Pin-1 or microtubule-binding on dephosphorylation of FTDP-17 mutant Tau <Short talk 3>

17:30-18:50 **Poster Session (I)**

19:00-20:30 ***Banquet (at Tsutsuji-no-ma)***

Thursday, November 13

Special Lecture (Chair: Takashi Matozaki)

9:00-9:50 Benjamin G. Neel (Ontario Cancer Institute, Canada)
Animal models of human disease-associated SHP2 (*PTPN11*) mutations

9:50-10:20 **Group Photo**

Session IV (Session chairs: Michel L. Tremblay and Masaharu Noda)

10:20-10:50 Anna A. DePaoli-Roach (Indiana University, USA)
Role of glycogen targeting subunits of PP1 in hormonal control of glycogen metabolism and glucose homeostasis

10:50-11:10 Seiji Inui (Kumamoto University)
Protein phosphatase 6 regulates the apoptotic signal transduction

11:10-11:30 Shigehisa Yanagi (Akita University / University of Miyazaki)
Analysis of Pten function in bronchioalveolar epithelium

11:30-11:50 Kazuya Mizuno (Tokyo Metropolitan Institute for Neuroscience)
Dual functions of SHP-1 in the regulation of mast cell signaling

11:50-13:30 **Lunch**

(Business meeting by the JAPPR committee at Oze-no-ma)

Session V (Session chairs: Anna A. DePaoli-Roach and Seiji Inui)

13:30-14:00 Nicholas K. Tonks (Cold Spring Harbor Laboratory, USA)
TBA

14:00-14:30 Michel L. Tremblay (McGill University, Canada)
Protein tyrosine phosphatases as tumor suppressors and oncogenes

14:30-14:50 Yoko Aoki (Tohoku University)
The Ras/MAPK syndromes: novel roles of the RAS pathway in human genetic disorders

14:50-15:10 Masanori Hatakeyama (Hokkaido University)
SHP-2 phosphatase and human cancer

15:10-15:40 John L. Bixby (University of Miami Miller School of Medicine, USA)
Receptor tyrosine phosphatase PTPRO regulates the development

and regeneration of sensory neurons

15:40-15:55 **Coffee Break**

Session VI (Session chairs: Nicholas K. Tonks and Masanori Hatakeyama)

15:55-16:15 Masaharu Noda (National Institute for Basic Biology)
Proteolytic processing of Ptpz and its potential role for nuclear signaling

16:15-16:35 Takashi Matozaki (Gunma University)
SAP-1 is a microvillus-specific protein tyrosine phosphatase that regulates intestinal tumorigenesis and inflammation

16:35-16:55 Seiji Torii (Gunma University)
A secretory granule-resident protein-tyrosine phosphatase phogrin regulates autocrine insulin signaling in pancreatic β -cells

16:55-17:15 Tzu-Ching Meng (Academia Sinica, Taiwan)
A novel role of *Drosophila* protein tyrosine phosphatase dPTP61F in regulating actin organization

17:15-17:30 Suhad Ali (McGill University, Canada)
Role of SHP-2/Grb2 in prolactin signaling in mammary epithelial cell growth and differentiation <Short talk 4>

17:30-17:50 Hidetaka Yakura (University of Paris 1 Panthéon-Sorbonne, France)
The phosphotyrosine signaling system: A view from the other side

17:50-19:00 **Poster Session (II)**

Friday, November 14

Session VII (Session chairs: Susanne Klumpp and Hiroshi Shima)

- 8:30-9:00 Dietmar Vestweber (Max Planck Institute of Molecular Biomedicine, Germany)
VE-PTP as regulator of endothelial cell contact integrity and vascular remodelling
- 9:00-9:30 Josef Krieglstein (Westfaelische Wilhelms-University, Germany)
Binding of ATP to growth factors as a prerequisite for their neuroprotective activity
- 9:30-9:50 Tomohiko Maehama (National Institute of Infectious Diseases)
Identification of a Ras-family GTPase as an indispensable signal mediator for nutrient sensing and mTORC1 activation
- 9:50-10:10 Kensaku Mizuno (Tohoku University)
Molecular mechanisms of substrate recognition and F-actin-mediated activation of cofilin-phosphatase slingshot-1 and its roles in cell migration and invasion
- 10:10-10:25 Noriko Uetani (McGill University, Canada)
Maturation of ureter-bladder connection and craniofacial development by LAR receptor protein-tyrosine phosphatases
<Short Talk 5>

Closing Remarks

- 10:25-10:35 Takashi Matozaki (Gunma University)

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