The 10th JBS Biofrontier Symposium

commemorating Kyushu University Centennial Anniversary

International Symposium

New Aspects of Phospholipid Biology and Medicine 2011

九大百年

Kyushu University 100th 2011

知の新世紀を拓く

KYUSHU

UNIVERSITY

Dates: November 14-16, 2011

Venue: Hotel Luigans -Spa and Resort-

(In memory of Kyushu University Centennial Anniversary)

International Symposium
New Aspects of Phospholipid Biology and Medicine 2011

Program and Abstract

November 14-16, 2011
Hotel Luigans –Spa and Resort–

<Organizing Committee>

Masato Hirata (Kyushu University), Chair
Takehiko Sasaki (Akita University), Vice-Chair
Takehiko Yokomizo (Kyushu University), Vice-Chair
Akira Suzuki (Kyushu University)
Klyoko Fukami (Tokyo University of Pharmacy and Life Sciences)
Yasunori Kanaho (Tsukuba University)

<Secretariat>

Hiroshi Takeuchi (Kyushu University)
Miho Matsuda (Kyushu University)
Akiko Mizokami (Kyushu University)
Jing Gao (Kyushu University) Treasurer

Time Table

November 14 (Mon)	
Registration	
13:00–13:25	Christophe Erneux
13:25–13:50	Hiroyuki Arai
13:50–14:20	Takao Shimizu
14:20–14:45	Vytas Bankaitis
14:45–15:10	Yasushi Okamura
15:10–15:35	Junken Aoki
Break (15 min)	
15:50–16:15	Masahiro Ueda
16:15–16:40	Stephane Schurmans
16:40–17:00	Hiroshi Hasegawa
17:00–17:20	Tetsushi Sadakata
17:20–17:45	Thomas Martin
17:45–18:15	Robin Irvine

November 15 (Tue)	
9:00–9:30	Takashi Kadowaki
9:30–10:00	Lewis Cantley
10:00–10:30	Shigeo Koyasu
Break (15 min)	
10:45–11:10	Bart Vanhaesebroeck
11:10–11:35	Roger Williams
11:35–12:05	Katsuhiko Mikoshiba
12:05–13:00	**Lunch**
13:00–14:30	**Poster Viewing**
14:30–15:00	Tadaomi Takenawa
15:00–15:30	Shigekazu Nagata
15:30–15:55	Tamas Balla
15:55–16:20	Lucio Cocco
Break (10 min)	
16:30–16:55	Toyoshi Fujimoto
16:55–17:20	Masamitsu Iino
17:20–17:45	Ryo Taguchi
17:45–18:15	Yukio Fujiki
19:00–20:30	**Banquet**

November 16 (Wed)	
9:00–9:25	Takehiko Sasaki
9:25–9:50	Len Stephens
9:50–10:15	Yoshinori Fukui
Break (20 min)	
10:35–11:05	Matilda Katan
11:05–11:35	Pann-Ghill Suh
11:35–12:00	Makoto Murakami
12:00–13:00	**Lunch**
13:00–13:25	Sung Ho Ryu
13:25–13:50	Yoshikazu Nakamura
13:50–14:15	John York
14:15–14:40	Steve Shears
14:40–15:05	Takehiko Yokomizo
Break (20 min)	
15:25–15:45	Sun Sik Bae
15:45–16:05	Motohiro Nishida
16:05–16:20	Hiroshi Takeuchi

Conference Program

November 14 (Mon), 2011

12:00-12:55 Registration and Lunch
12:55-13:00 Opening Remark

Chairman: Junken Aoki

13:00-13:25 Christophe Erneux (Free University of Brussels, Belgium)

The Targeting of SHIPS to different cell compartments: SHIPS secret functione(s) exposed

13:25-13:50 Hiroyuki Arai (The University of Tokyo, Japan)

Intracellular phosphatidylserine is essential for retrograde membrane traffic through endosomes

13:50-14:20 Takao Shimizu (The University of Tokyo)

Lysophosphatidylcholine acyltransferases: biochemistry and biology

Chairman: Christophe Erneux

14:20-14:45 Vytas Bankaitis (University of North Carolina, USA)

The secret lives of lipid transfer proteins

14:45-15:10 Yasushi Okamura (Osaka University, Japan)

Molecular mechanisms and potential biological roles of voltage-sensing phosphoinositide phosphatases

15:10-15:35 Junken Aoki (Tohoku University, Japan)

Autaxin regulates vascular development *via* multiple LPA receptors in zebrafish

<Break>

Chairman: Thomas Martin

15:50-16:15 **Masahiro Ueda (Osaka University, Japan)**

Self-organization of the PtdIns lipids signaling system for spontaneous random motility in *Dictyostelium* cells

16:15-16:40 **Stephane Schurmans (Université de Liège, Belgium)**

Functional characterization of PI 5-phosphatase and IP3-kinase in mice

16:40-17:00 **Hiroshi Hasegawa (University of Tsukuba, Japan)**

The diverse functions of phosphatidylinositol 4-phosphate 5-kinase sutypes

Chairman: Masahiro Ueda

17:00-17:20 **Tetsushi Sadakata (Gunma University, Japan)**

CAPS2 protein, dense-core vesicle trafficking and autism

17:20-17:45 **Thomas Martin (University of Wisconsin-Madison, USA)**

PI(4,5)P_2 at sites of vesicular exocytosis directs activity of CAPS and Munc13 priming proteins

17:45-18:15 **Robin Irvine (University of Cambridge, UK)**

Plasma membrane phosphatidylinositol 4-phosphate: New function for an old lipid

November 15 (Tue), 2011

Chairman: Bart Vanhaesebroeck

9:00-9:30 **Takashi Kadowaki (The University of Tokyo, Japan)**

Role of PI3Kinase in type 2 Diabetes

9:30-10:00 **Lewis Cantley (Harvard Medical School, USA)**

Phosphatidylinositide 3-kinase and disease

10:00-10:30 **Shigeo Koyasu (Keio University, Japan)**

PI3K-Akt-mTORC1 axis controls Th17 differentiation

<Break>

Chairman: Shigeo Koyasu

10:45-11:10 **Bart Vanhaesebroeck (Barts Cancer Centre, UK)**

Direct and indirect actions of PI 3-kinase in cancer

11:10-11:35 **Roger Williams (University of Cambridge, UK)**

Mechanisms of activation of phosphatidylinositide 3-kinase

11:35-12:05 **Katsuhiko Mikoshiba (RIKEN, BSI and JST ICORP-SORST, Japan)**

IP_3 ligand-gated Ca^{2+} channel: structure and its variety of physiological and pathological functions

12:05-13:00 Lunch

13:00-14:30 Poster viewing

Chairman: Masamitsu Iino

14:30-15:00 **Tadaomi Takenawa (Kobe University, Japan)**

Phosphoinositide-binding proteins involved in shaping cell membranes

15:00-15:30 **Shigekazu Nagata (Kyoto University, Japan)**

Apoptosis and exposure of phosphatidylserine

15:30-15:55 **Tamas Balla (National Institutes of Health, USA)**

Identification of a novel organelle that synthesize and distribute phosphatidylinositol

15:55-16:20 **Lucio Cocco (University of Bologna, Italy)**

Nuclear inositide signaling : phospholipase C-β1 and myelodysplastic syndrome

<Break>

Chairman: Tamas Balla

16:30-16:55 **Toyoshi Fujimoto (Nagoya University, Japan)**

Nanoscale distribution of phospholipids observed by electron microscopy

16:55-17:20 **Masamitsu Iino (The University of Tokyo, Japan)**

Pathophysiological roles of the astrocyte intracellular calcium release mechanisms in the brain

17:20-17:45 **Ryo Taguchi (Chubu University, Keio University, National Institute of Health Sciences, Japan)**

Direct detection of lipid molecular species in localized tissue areas by liquid extraction surface analysis

17:45-18:15 **Yukio Fujiki (Kyushu University, Japan)**

Peroxisome homeostasis: Regulation of plasmalogen synthesis and morphogenesis

November 16 (Wed), 2011

Chairman: Matilda Katan

9:00-9:25 **Takehiko Sasaki (Akita University, Japan)**

Roles of phosphatidylinositol 3,5-bisphosphate in health and disease

9:25-9:50 **Len Stephens (The Babraham Institute, UK)**

Signaling *via* PI3Ks in neutrophils

9:50-10:15 **Yoshinori Fukui (Kyushu University, Japan)**

Role of phospholipid in dock family protein-mediated cellular functions

<Break>

Chairman: Yoshinori Fukui

10:35-11:05 **Matilda Katan (University College London, UK)**

Deregulation of phosphoinositide-specific PLC signaling

11:05-11:35 **Pann-Ghill Suh (Ulsan National Institute of Science and Technology, Korea)**

Forebrain-specific PLC-γ1 knockout mice exhibit abnormal behaviors related to hyperdopaminergic neurotransmission

11:35-12:00 **Makoto Murakami (Tokyo Metropolitan Institute of Medical Science, Japan)**

Searching the secrets of secreted phospholipase A2

12:00-13:00 Lunch

Chairman: Makoto Murakami

13:00-13:25 **Sung Ho Ryu (Pohang University of Science and Technology, Korea)**

Understanding of the role of phospholipase D through binding partners

13:25-13:50 **Yoshikazu Nakamura (Tokyo University of Pharmacy and Life Sciences, Japan)**

Epidermal phospholipase C-δ1 regulates systemic IL17 level and granulocyte count

13:50-14:15 **John York (Duke University, USA)**

Decoding inositol phosphate and pyrophosphate signaling

14:15-14:40 **Stephen B. Shears (NIEHS/NIH, USA)**

Phospholipid-derived signals: the "high-energy" inositol pyrophosphates

14:40-15:05 **Takehiko Yokomizo (Kyushu University, Japan)**

Two distinct leukotriene B4 receptors: BLT1 nad BLT2

Break (20min)

Chairman: Takehiko Yokomizo

15:25-15:45 **Sun Sik Bae (Pusan National University, Korea)**

Roles of Akt1/PKBα isoform during the pathogenesis of the atherosclerosis: Friend or foe?

15:45-16:05 **Motohiro Nishida (Kyushu University, Japan)**

Sulfhydration of electrophiles underlies protection against reactive oxygen species-mediated cardiac senescence by hydrogen sulfide

16:05-16:20 **Hiroshi Takeuchi (Kyushu University, Japan)**

Phospho-regulation of exocytosis by PRIP

Poster Presentation

(1) Ando, H. (RIKEN): Multiple functions of an IP3 receptor binding protein, IRBIT

(2) Gao, J. (Kyushu University): Phospho-dependent modulation of exocytosis by PRIP

(3) Harada, K. (Hiroshima University): PRIP modulates *Staphylococcus aureus* proliferation *via* infection-induced autophagy

(4) Harayama, T. (The University of Tokyo): LPCAT1 regulates dipalmitoylphosphatidylcholine levels *in vivo* and prevents lung injury

(5) Honsho, M. (Kyushu University): Fatty acyl-CoA reductase1, a peroxisomal C-tail anchored protein, controls plasmalogen biosynthesis

(6) Ikeda, K. (Keio University): Increase of oxidant-related triglycerides in serum and villi during development of intestinal polyp formation in Min mice

(7) Kanemaru, K. (Tokyo University of Pharmacy and Life Sciences): Loss of epidermal phospholipase C δ1 results in a systemic granulocytosis in mice

(8) Kanematsu, T. (Hiroshima University): PLC-related catalytically inactive protein: A novel modulator of lipolysis

(9) Kawahara, K. (Kyushu University): PICT1, a PTEN stabilizing protein, is a critical nucleolar latch of RPL11 to regulate MDM2-p53 pathway and tumor growth

(10) Kim, Jung-Min (UNIST and POSTECH): Regulation of cAMP/PKA/leptin pathway activates mesenchymal stem cells osteogenesis

(11) Kim, Jung Kuk (POSTECH and UNIST): CLAMP regulates PLC-β3 specific activation of somatostatin via forming a ternary complex with PLC-β3 and somatostatin receptor

(12) Kitajima, N. (Kyushu University): Diacylglycerol-activated TRPC3 channels mediate pressure overload-induced cardiac fibrosis in mice

(13) Koga, T. (Kyushu University): BLT1 as a potential marker of mouse dendritic cell subsets

(14) Kojima, R. (Toyama University): Structural study of the archaeal ESCRT protein, CdvA

(15) Kurokawa, T. (Osaka University): Characterization of substrate specificity of voltage-sensing phosphoinositide phosphatase, VSP, with relationship to PTEN

(16) Kwak, Dongoh (POSTECH and UNIST): Osmotic stress regulates mTORC1 through JNK-mediated Raptor phosphorylation

(17) Lee, Yu Jin (UNIST and POSTECH): DNA aptamer-targeted periostin inhibits adhesion and migration of breast cancer cells

(18) Matsuda, M. (Osaka University): Crystal structure of the cytoplasmic PTEN-like region of Ci-VSP provides insight into substrate specificity and redox regulation of the phosphoinositide phosphatase activity

(19) Matsuobu, T. (Kyushu University): Two distinct pathways for biosynthesis of 12-HHT, a ligand for BLT2

(20) Mizokaim, A. (Kyushu University): Osteocalcin regulates incretin secretion

(21) Moon, Hyo-Youl (POSTECH and UNIST): Macrophage migration inhibitory factor mediates the antidepressant actions of voluntary exercise

(22) Morisaki, Y. (Kyushu University): Improved immunoprecipitation method for epitope-tagged GPCRs

(23) Noda, T. (Osaka University): Critical role of PtdIns3P turn over in autophagy

regulation

(24) Oguro, A. (Kwansei Gakuin University): New substrates for phosphatase domain of soluble epoxide hydrolase

(25) Ohwada, T. (The University of Tokyo): Lysophosphatidylthreonine and its 2-deoxy derivatives as potent inducers of mast cell degranulation. Potential chemical tools.

(26) Okada, M. (Yamagata University): DGKζ is a suppressor of excitotoxic neuronal cell death

(27) Okuno, T. (Kyushu University): 12-HHT is a natural ligand for BLT2

(28) Saeki, K. (Kyushu University): Leukotriene B4 augments and restores FcγRs-dependent phagocytosis in macrophages

(29) Sakata, S. (Osaka University): Coupling of the phosphoinositide phosphatase activity of Ci-VSP to its voltage sensor

(30) Sasaki, F. (Kyushu University): Expression of an LTB4 receptor BLT1 in M2 macrophages

(31) Sato, H. (Tokyo Metropolitan Institute of Medical Science): Secreted phospholipase A2s in metabolic syndrome

(32) Shimi, K. (Tokyo Metropolitan Institute of Medical Science): Secreted phospholipase A2s in atopic dermatitis

(33) Sugiyama, G. (Kyushu University): Regulation of protein phosphatases, PP1 and PP2A, by PRIP

(34) Suzuki, M. (Tokyo University of Pharmacy and Life Sciences): Physiological functions of Phospholipase Cδ1 in adipogenesis and thermogenesis

(35) Taketomi, Y. (Tokyo Metropolitan Institute of Medical Science): Secreted phospholipase A2s in anaphylaxis

(36) Tuzi, S. (University of Hyogo): Changes in the secondary structure of the SWAP-70 PH domain induced at the lipid bilayer surface

(37) Ushida, A. (Tokyo Metropolitan Institute of Medical Science): Secreted phospholipase A2s in male reproduction

(38) Yamaga, M. (University of Wisconsin-Madison): Phospholipase Cη2 activation re-directs secretory granule trafficking *via* F-actin disassembly

(39) Yamamoto, K. (Tokyo Metropolitan Institute of Medical Science): Secreted phospholipase A2s in skin homeostasis

(40) Yang, Yong Ryoul (POSTECH and UNIST): O-GlcNAcase is essential for embryonic development and maintenance of genomic stability

(41) Yoon, Jong Hyuk (POSTECH and UNIST): Proteomic analysis of TNF1 induced L6 myotube secretome reveals novel TNFa dependent myokines in diabetic skeletal muscle

(42) Zhang, Z. (Kyushu University): PRIP participates in regulated exocytosis by binding to SNARE proteins through the C2

Invited speakers

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