

# 12<sup>th</sup> International Conference on Protein Phosphatase Organizing committee

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Masanori Hatakeyama  
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Toshio Watanabe, Chair  
Takashi Matozaki  
Masaharu Noda  
Hiroshi Shima

## International Symposium on Innovative Research for Genome-Based Drug Discovery and Cancer Therapeutics Organizing committee

Reiko Sugiura, Chair  
Toshinobu Fujiwara  
Masahiro Iwaki  
Naohito Kawasaki  
Tomohiro Maegawa  
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Mitsuhiro Kinoshita  
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Hiroyuki Moriyama  
Takashi Nakayama  
Kazuto Nishio  
Shigeo Suzuki  
Hideo Takasashi

### Welcome Message



**Reiko Sugiura, M.D.**

Chair and Professor, Department of Pharmaceutical Sciences, Kindai University

Chair, Organizing Committee, ICPP12

Head of Organizing Committee, MEXT-Supported Program  
for the Strategic Research Foundation at Kindai University

Dear participants of the 12th International Congress on Protein Phosphatase

On behalf of the Organizing Committee, I'm honored to host the 12th International Congress on Protein Phosphatase (ICPP12) at Kindai University, Osaka, Japan, October 27-30, 2016.

The theme of this year's ICPP12 is "Protein phosphatase for Translational Research" and our goal is to ensure that protein phosphatase research will contribute to promoting human health and advancing medicine. This congress will be jointly organized by the ongoing MEXT-Supported Program for the Strategic Research Foundation at Private Universities at Kindai University. The aim of this program is to establish a research foundation in Kindai University, that will serve as a cross-disciplinary platform for strategic cancer research, including the elucidation of molecular basis and the regulatory mechanisms of cancer as well as the discovery of innovative therapeutic approaches for cancer treatment. We anticipate that the outcomes of this program will promote basic and clinical cancer research, which will contribute to cancer prevention as well as the development of new products for the pharmaceutical industries.

Because phosphorylation events executed by phosphatases and kinases are the most attractive mechanistic targets for cancer therapy, I believe that this congress will be instrumental in taking up the challenge of uniting basic research with clinical application research focused on defeating cancer. We believe the Kindai project will serve as a driver in developing, strengthening and disseminating evidence-based practices to the world.

Kindai University is one of the largest comprehensive Universities in Japan and for the last 3 years the number of applicants has exceeded one hundred thousand, ranking it number 1 in Japan. This fact, along with its world renowned research in farm raising tuna and research excellence in the life sciences makes Kindai University one of the most highly regarded universities in Japan.

As an innovative feature, this congress will provide a forum for young scientists to attend and present their research. Therefore, we have decided to give prominence to a wide range of workshops by speakers selected from graduate, undergraduate, young academic staff, and senior-high-school students. I believe this inclusive feature of ICPP12 will promote lively discussion and serve as a motivational force to help researchers and young scientists/students to maximize their potential.

I am very much looking forward to seeing you in October in 2016 at KINDAI University, Japan!!

# Heartfelt Thanks to our 2016 ICPP Conference

## Sponsors and Grant Funding!

### **Sponsors (alphabetical order)**

- Abcam plc. (アブカム株式会社)
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### **Grant Funding (alphabetical order)**

- Japanese Biochemical Society (JBS), Biofrontier Symposium  
(JBS バイオフロンティアシンポジウム)
- MEXT-supported Program for the Strategic Research Foundation at Private  
Universities (私立大学戦略的研究基盤形成支援事業)
- Nakatsuji Foresight Foundation (一般財団法人中辻創智社)

## General Information

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Congress	The 12th International Conference on Protein Phosphatase & International Symposium on Innovative Research for Genome-Based Drug Discovery and Cancer Therapeutics
Date	October 27th (Thu) – 30th (Sun), 2016
Venue	NOVEMBER HALL (main hall), Main Campus, KINDAI UNIVERSITY Kowakae 3-4-1, Higashiosaka City, Osaka 577-8502, JAPAN TEL: +81-6-6721-2332
Oral Presentation	Please bring <b><u>a USB memory stick</u></b> , or <b><u>your own computer with a mini D-sub 15-pin connector</u></b> .
Short Oral Presentation	Please bring <b><u>a USB memory stick</u></b> . Alloted time time is 3 mins (No discussion time).
Poster Presentation	A poster board, 180 cm in height and 90 cm in width, is available for each presenter. Adhesive tapes are provided by secretariat. Please set up your poster before the 28th morning symposium session.
Group Photo	A group photo is scheduled from 15:30 following the “Symposium 6” on October 29th.
Reception	Reception will be held at KURE ( <u>K</u> indai <u>U</u> niversity <u>R</u> estaurant) from 18:30 on October 29th.
Grant Funding	Japanese Biochemical Society (JBS) MEXT-supported Program for the Strategic Research Foundation at Private Universities Nakatsuji Foresight Foundation

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# Information for Participants

## 1. Registration

Registration desk is located on the 1st floor in NOVEMBER HALL.

### ☆ Registration Desk Opening Hours:

Date	Hours
October 27 <sup>th</sup> (Thu)	13:00 – 19:00
October 28 <sup>th</sup> (Fri)	8:00 – 19:00
October 29 <sup>th</sup> (Sat)	8:00 – 18:30
October 30 <sup>th</sup> (Sun)	8:00 – <b>11:00</b>

## 2. Cloak

Our cloak is located on the 2nd floor in NOVEMBER HALL. Valuables and PC cannot be accepted.

### ☆ Cloak Opening Hours:

Date	Hours
October 27 <sup>th</sup> (Thu)	13:00 – 19:00
October 28 <sup>th</sup> (Fri)	8:00 – 19:00
October 29 <sup>th</sup> (Sat)	8:00 – 18:30
October 30 <sup>th</sup> (Sun)	8:00 – <b>13:00</b>

## 3. Drink and Sweet Treat Service

Drink and sweet treat service will be available for all participants in the 1 st floor in NOVEMBER HALL.

## 4. Prohibitions

Photography, video recording, sound recording, and twittering the presented data are prohibited. Smoking is prohibited except the designated area.

## 5. Wireless Local Area Network

NOVEMBER HALL is not equipped with Free Wi-Fi.

# Session Chair and Presentation Guidelines

## 〈Session Chair Guidelines〉

1. Arrive Early  
If possible, we kindly ask chairs to arrive at the session room about 5 minutes prior to the start of the session.
2. Start on Time and Stick to the Schedule  
Please start the session on time.
3. Allotted Times  
For “Opening lecture” and “Special seminar” allocation of time for each presentation is left to the discretion of the chairs.

## 〈Oral Presentation Guidelines〉

☆ Language: English

☆ Allotted Time

Symposium: Presentation 15, 20, or 25 mins + Q&A 5 mins

Symposium: Presentation 12 mins + Q&A 3 mins

Young Investigators' Session: Presentation 7 mins + Q&A 3 mins

Poster Short Talk: 3 mins (No discussion time)

☆ Process and Timing

- Symposium/ Young Investigators' Session
  - 1 ring: 2 minutes\* to the end of presentation
  - 2 rings: End of presentation - Start of discussion
  - 3 rings: End of discussion - Time for next presentation
- \* Young Investigators' Session: 1 minutes
- Poster Short Talks
  - 1 ring: 2 minutes from the start of presentation
  - 2 rings: 2.5 minutes from the start of presentation  
(End of presentation)
  - 3 rings: 3 minutes from the start of presentation  
(Time for next presentation)

☆ Presentation Data

Please prepare your data in Microsoft PowerPoint (Windows PowerPoint 2010/2013/2016 or Mac PowerPoint 2011/2016).

☆ If you use the Secretariat's PC

1. Please bring your data to the "PC Connection Desk" by the main stage.
  - If you will make a presentation in the morning  
Please bring your data **by the previous evening.**
  - If you will make a presentation in the afternoon  
Please bring your data **by the end of lunch time.**
2. Only USB flash drives are accepted.
3. Windows 10 or MacOS 10.12 (Sierra) is the only operating system available for the presentations.
4. Your presentation data file should be named as <Presentation number>\_<Name> (eq. O-27\_Sugiura).
5. If your presentation contains any movie files, you are also requested to bring your own computer.
6. Audio playback is not possible.
7. If your presentation data is linked to other files (i.e. still or moving images, graphs, etc.), those linked files should also be saved in the same folder, and the links checked beforehand.
8. The Secretariat is responsible for destroying all copies of any data after the session.

☆ If you bring your own PC (**"Poster Short Talk"s are not accepted**)

1. You are requested to leave your computer to our skilled technicians in the session room **at least 10 mins before your session starts.**
2. Please bring your AC adapter with you.
3. The Secretariat will prepare a Mini D-sub 15 pin PC cable connector. If your PC is not compatible with this cable connector, please bring an adaptor to connect your PC to the Mini D-sub 15 pin PC cable connector.
4. Please make sure to unlock your password on your computer.
5. Please also bring your presentation data on a media (USB flash drives are accepted) as a backup file.

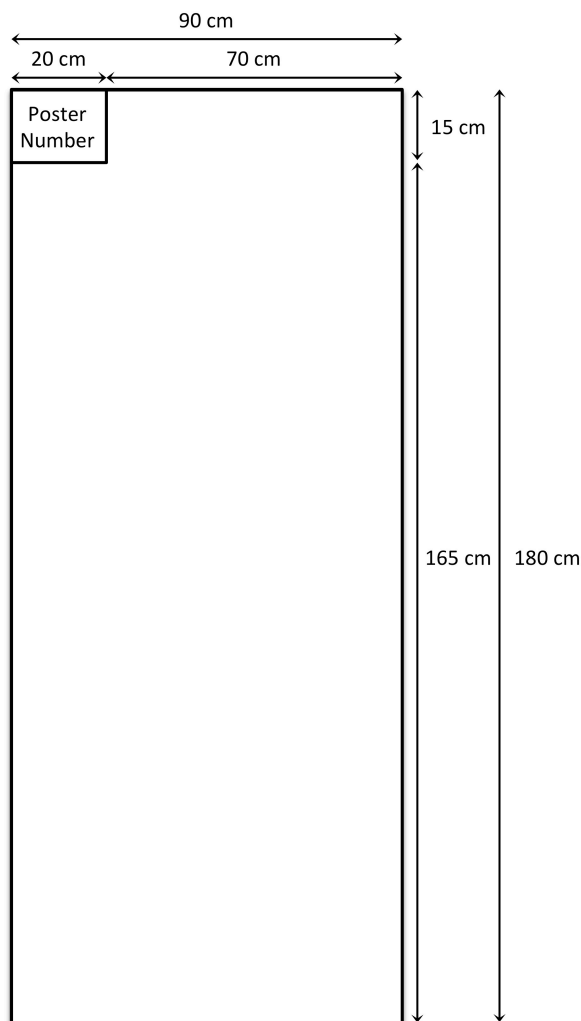
### 〈Poster Presentation Guidelines〉

1. The panel size is shown in the figure on the right.

Height: 180 cm

Width: 90 cm

2. Please print out the title of your presentation as well as the presenter's name(s) and affiliation in English and affix this information at the top of the poster display space.
3. Poster must be prepared in **English**.
4. Poster numbers are already indicated on display panels.
5. Adhesive tapes for putting up posters are provided by secretariat. Please do **not** use tacks or glue.
6. Please attach the ribbon on your chest and stand in front of your poster panel during the poster presentation.
7. Posters remaining after the removal time will be removed by the secretariat.
8. The Organizer and Secretariat will accept no responsibility for any theft, loss or damage of posters.



### ☆ Poster Set up/Removal time

Set up time : Oct. 27<sup>th</sup> (Thu) 14:00~Oct. 28<sup>th</sup> (Fri) 9:00

Removal time : Oct. 30<sup>th</sup> (Sun) 12:20~13:20



# Program

# October 27 (Thu)

**Opening Remarks** **14:50~15:00**

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Reiko Sugiura (Organizer, Kindai University, Japan)

**Opening Remarks** **15:00~15:10**

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Hitoshi Shiozaki (President, Kindai University, Japan)

**Opening Lecture** **15:10~16:00**

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Chair: Reiko Sugiura (Kindai University, Japan)

**S-01**            **Applying tyrosine phosphatase inhibitors in cancer therapeutics**

15:10~16:00    Michel Tremblay (McGill University, Canada)

**Coffee Break** **16:00~16:20**

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**Symposium1 - Phosphatase-** **16:20~18:00**

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Chair: Takashi Matozaki (Kobe University, Japan)

Nicholas Tonks (Cold Spring Harbor Laboratory, USA)

**O-01**            **Parafibromin, a substrate of SHP2, is a transcriptional platform**

16:20~16:45    **that integrates morphogen signaling pathways**

Masanori Hatakeyama (The University of Tokyo, Japan)

**O-02**            **Protein phosphatase PP1-NIPP1 limits the DNA-repair capacity**

16:45~17:15    Mathieu Bollen (University of Leuven, Belgium)

**O-03**            **Ppp6c deficiency predisposes mouse skin tissue**  
17:15~17:35    **to carcinogenesis**

Hiroshi Shima (Miyagi Cancer Center Research Institute, Japan)

**O-04**            **PTPRZ activity is critical for maintaining oligodendrocyte**  
17:35~18:00    **precursor cells and glioblastoma stem cells**

Masaharu Noda (National Institute for Basic Biology, Japan)

# October 28 (Fri)

## Symposium 2 - Immunity/Disease-

9:00~10:40

Chair: Mathieu Bollen (University of Leuven, Belgium)

Shirish Shenolikar (Duke-NUS Medical School, Singapore)

**O-05 Control of Lymphocytes by Protein Phosphatase-6 and SAPS1**

9:00~9:30 David Brautigan (University of Virginia, USA)

**O-06 A novel mechanism involving SHP-1 for selective suppression of B cells reactive to Sm/RNP, a lupus-related self-antigen**

Takeshi Tsubata (Tokyo Medical and Dental University, Japan)

**O-07 Human hemato-lymphoid system development in human cytokine knock-in mice engrafted with adult donor-derived CD34+ cells**

Yasuyuki Saito (Kobe University, Japan)

**O-08 The roles of PTPROt in chronic lymphocytic leukemia**

10:05~10:25 Ari Elson (The Weizmann Institute of Science, Israel)

**O-09 PP6 and alpha4 regulate the apoptosis of immature B cells induced by BCR crosslinking**

Seiji Inui (Kumamoto University, Japan)

**Break**

10:40~10:50

**Poster Short Talk (Odd number) Young Investigators**

10:50~11:30

Chair: Yasuyuki Saito (Kobe University, Japan)

**PS-01(P-01) A novel A-kinase anchoring protein, BIG3, coordinates estrogen signalling in breast cancer cells**

Tetsuro Yoshimaru (Tokushima University, Japan)

**PS-03(P-03) Protein tyrosine phosphatase Shp2 deficiency in the glomerular podocytes attenuates lipopolysaccharide-induced kidney injury**

Shinichiro Koike (University of California Davis, USA)

- PS-05(P-05)** Therapeutic application of anti-SIRP $\alpha$  antibody in cancer treatment  
10:56~10:59  
Tadahiko Yanagita (Kobe University, Japan)
- PS-07(P-07)** ERK-RSK mediated phosphorylation of FilGAP regulates cell migration by promoting the conversion from lamellipodia to membrane blebbing downstream of epidermal growth factor signaling  
10:59~11:02  
Koji Tsutsumi (Kitasato University, Japan)
- PS-09(P-09)** Role of SIRP $\alpha$  in the homeostasis of fibroblastic reticular cells by dendritic cells in the spleen  
11:02~11:05  
Datu Respatika (Kobe University, Japan)
- PS-11(P-11)** Mangiferin induced the apoptosis via suppression of NIK/NF- $\kappa$ B pathway in human multiple myeloma cells  
11:05~11:08  
Toshiki Kino (Kindai University, Japan)
- PS-13(P-13)** Mangiferin, a novel nuclear factor kappa B inducing kinase inhibitor, suppresses metastasis in a mouse metastatic melanoma model  
11:08~11:11  
Tomoya Takeda (Kindai University, Japan)
- PS-15(P-15)** Functional Analysis of the Puf family RNA-binding protein Pumilio in stress responses and the inositol phospholipid signaling pathway  
11:11 ~ 11:14  
Masahiro Inari (Kindai University, Japan)
- PS-17(P-17)** Cross-species reaction of anti-human LAT1 with LAT1 of crab-eating monkey  
11:14~11:17  
Shiho Ueda (Kindai University, Japan)
- PS-19(P-19)** Influence of radixin knockdown on drug efflux transporters of cancer cells  
11:17~11:20  
Yuta Inoue (Kindai University, Japan)
- PS-21(P-21)** A CC3 variant of lymphotactin/XCL1 (XCL1- CC3) is an effective CTL-inducing adjuvant for cancer immunotherapy  
11:20~11:23  
Shinya Yamamoto (Kindai University, Japan)

**PS-23(P-23) The BCR crosslinking-induced phosphorylation of Bcl-xL and apoptosis are controlled by alpha4 in immature B cell**  
11:23~11:26  
Kano Tanabe (Kumamoto Health Science University, Japan)

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**Poster presentation (Odd number) 11:30~12:30**

**Lunch / Poster viewing 12:30~13:30**

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**Symposium 3 -Cellular Signaling and Stress Responses- 13:30~15:20**

Chair: Masaharu Noda (National Institute for Basic Biology, Japan)

Tzu-Ching Meng (Academia Sinica, Taiwan)

**O-10 Multiple Roles for eIF2alpha Phosphatases in the Unfolded Stress Response**  
13:30~14:00  
Shirish Shenolikar (Duke University, USA)

**O-11 Characterization of a Gtr/Rag-independent and glutamine-responsive TORC1 activation mechanism in yeast**  
14:00~14:20  
Tatsuya Maeda (The University of Tokyo, Japan)

**O-12 Mitochondrial stress sensing and cellular response**  
14:20~14:40  
Kohsuke Takeda (Nagasaki University, Japan)

**O-13 Neural specific RNA-binding proteins grasp the translation regulatory networks**  
14:40~15:00  
Tohsinobu Fujiwara (Kindai University, Japan)

**O-14 Two bistable switches of cell division generated by kinase/phosphatase antagonism**  
15:00~15:20  
Satoru Mochida (Kumamoto University, Japan)

**Coffee Break 15:20~16:00**

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**Young Investigators' Session 1 -Cancer Therapeutics- 16:00~17:00**

Chair: Zhenghe Wang (Case Western Reserve University, USA)

Tatsuya Maeda (The University of Tokyo, Japan)

**O-15 Molecular mechanisms for the upregulation of Cav3.2 T-type calcium channels involved in neuropathic pain**  
16:00~16:10  
Shiori Tomita (Kindai University, Japan)

- O-16**            **Targeting HMGB1 and its downstream molecules for treatment of oxaliplatin-induced peripheral neuropathy**  
 16:10~16:20      Maho Tsubota (Kindai University, Japan)
- O-17**            **Sulfonic acid formation of the active-site cysteine directs ubiquitin proteasome system-mediated degradation of myocardial protein tyrosine phosphatases**  
 16:20~16:30      Chun-Yi Yang (National Taiwan University, Taiwan)
- O-18**            **Overexpression of HIF-1alpha is involved with melphalan-resistance in multiple myeloma cells**  
 16:30~16:40      Masanobu Tsubaki (Kindai University, Japan)
- O-19**            **FGFR gene alterations in lung squamous cell carcinoma are potential targets for the multikinase inhibitor nintedanib**  
 16:40~16:50      Kazuko Sakai (Kindai University, Japan)
- O-20**            **Antiepileptic drug use is associated with a decreased risk of cancer: Data mining of spontaneous reporting and claims**  
 16:50~17:00      Mai Fujimoto (Kindai University, Japan)

**Coffee Break** **17:00~17:20**

**Symposium 4 -Phosphatase-** **17:20~18:20**

Chair: Satoru Mochida (Kumamoto University, Japan)  
 David Brautigan (University of Birginia, USA)

- O-21**            **Roles of protein phosphatases in cell polarity control**  
 17:20~17:50      Takashi Toda (Hiroshima University, Japan)
- O-22**            **Identifying the human calcineurin signaling network**  
 17:50~18:20      Martha Cyert (Stanford University, USA)

# October 29 (Sat)

## Symposium 5 -Molecular Basis of Cancer-

9:00~10:40

Chair: Fawaz Haj (University of California Davis, USA)

Takeshi Tsubata (Tokyo Medical and Dental University, Japan)

**O-23**                    **PTPRT is a tumor suppressor that regulates intestinal stem cell proliferation**  
9:00~9:25

Zhenghe Wang (Case Western Reserve University, USA)

**O-24**                    **Epigenetic Regulation by Notch Signaling in Glioma**

9:25 ~9:50            Yutaka Kondo (Nagoya City University, Japan)

**O-25**                    **Modest attenuation of DNA damage repair delays therapy-related cancer in mouse model**  
9:50~10:10

Hitoshi Okada (Kindai University, Japan)

**O-26**                    **A Surprising Role for PTP1B in Breast Cancer**

10:10~10:40        Benjamin Neel (Perlmutter Cancer Center, USA)

**Break**

10:40~10:50

**Poster Short Talk (Even number) Young Investigators**

10:50~11:30

Chair: Takeshi Ijuin (Kobe University, Japan)

**PS-02 (P-02)        Phyllotaxis Patterns**

10:50~10:53        Risa Yamada (Nara Woman's University Secondary School, Japan)

**PS-04 (P-04)        Inhibition of NF-kappaB by mangiferin increased the sensitivity of human multiple myeloma cells to anticancer drugs**  
10:53~10:56

Yoshika Tomonari (Kindai University, Japan)

**PS-06 (P-06)        Mutation and Inhibition of Hsp90 affect stress granule assembly and MAPK signaling ~Implications of anti-cancer mechanisms of Geldanamycin~**  
10:56~10:59

Takumi Ikehata (Kindai University, Japan)

- PS-08 (P-08)** Skb5, an SH3 domain adaptor protein, plays a regulatory role in the PKC/MAPK signaling pathway by controlling the intracellular localization of the MAPKKK Mkh1  
10:59~11:02  
Chisato Ikeda (Kindai University, Japan)
- PS-10 (P-10)** Global gene expression profiling reveals unexpected spectrum of effects of a novel immune modulator FTY720 ~Possible involvement of iron homeostasis as an antitumor property of FTY720~  
11:02~11:05  
Kanao Hagihara (Kindai University, Japan)
- PS-12 (P-12)** Anti-cancer drug discovery using fission yeast genetics identified a novel analog of 1'-Acetoxychavicol Acetate (ACA) with a potent anti-tumor activity against human melanoma cells  
11:05~11:08  
Kazuki Matsuura (Kindai University, Japan)
- PS-14 (P-14)** SET/I2PP2A Is a Prognostic Marker and a Potential Therapeutic Target for Gastric Cancer  
11:08~11:11  
Shuhei Enjoji (Yamaguchi University, Japan)
- PS-16 (P-16)** Modification of PP2A Methylation Status Assay and Implication for Protein Phosphatase Methyltransferase-1 (PME-1) as a Therapeutic Target for a Subset of Melanoma  
11:11~11:14  
Ryotaro Yabe (Yamaguchi University, Japan)
- PS-18 (P-18)** Identification of specific inhibitors for oncogenic protein phosphatase PPM1D from G-quadruplex DNA aptamer library  
11:14~11:17  
Atsushi Kaneko (Niigata University, Japan)
- PS-20 (P-20)** Inhibition of p53-inducible Ser/Thr phosphatase PPM1D induces differentiation of human testicular embryonal carcinoma cell line  
11:17~11:20  
Rui Kamada (Hokkaido University, Japan)
- PS-22 (P-22)** Effect of inhibition of p53-inducible Ser/Thr phosphatase PPM1D on neutrophil differentiation  
11:20~11:23  
Fuki Kudoh (Hokkaido University, Japan)



**PS-24 (P-24)** Identification of aldolase A as a novel diagnosis biomarker for colorectal cancer based on proteomic analysis using formalin-fixed paraffin-embedded tissue  
11:23~11:26  
Kanta Sato (Kindai University, Japan)

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**Poster presentation (Even number)** 11:30~12:30

**Lunch / Poster viewing** 12:30~13:30

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**Symposium 6 - Therapeutic Strategies for Cancer-** 13:30~15:30

Chair: Michel Tremblay (McGil University, Canada)  
Benjamin Neel (Perlmutter Cancer Center, NY, USA)

**O-27** Applying Kinase-Phosphatase Interplay in Ca<sup>2+</sup> signaling for  
13:30~13:55 **Cancer Therapeutics: A pas de deux**  
Reiko Sugiura (kindai University, Japan)

**O-28** Structural basis for PTPN3-p38gamma complex involved in colon  
13:55~14:20 **cancer progression**  
Tzu-Ching Meng (Academia Sinica, Taiwan)

**O-29** Illuminating Cellular Phosphorylation Signaling by Kinase-  
14:20~14:45 **Centric Phosphoproteomics**  
Yasushi Ishihama (Kyoto University, Japan)

**O-30** Identification of binding molecules for Ser/Thr phosphatases  
14:45~15:00 **using structurally rigid libraries**  
Yoshiro Chuman (Niigata University, Japan)

**O-31** Drugging the undruggable:exploiting PTP1B as a therapeutic  
15:00~15:30 **target**  
Nicholas K. Tonks (Cold Spring Harbor Laboratory, Cold Spring Harbor, USA)

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**Coffee Break / Group Photo** 15:30~16:00

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**Young Investigators' Session 2 -Cancer Signaling -** 16:00~17:00

Chair: Takashi Toda (Hiroshima University, Japan)  
Tzu-Ching Meng (Academia Sinica, Taiwan)

- O-32**            **Skb5, an SH3 adaptor protein, regulates PKC/MAPK signaling via spatial regulation of MAPKKK**  
 16:00~16:10      Yuki Kanda (Kindai University, Japan)
- O-33**            **CCR4 is involved in Th17 cell expansion and Th17-mediated induction of antitumor CTLs in mice bearing intradermal B16 melanoma**  
 16:10~16:20      Kazuhiko Matsuo (Kindai University, Japan)
- O-34**            **Anticancer-drug screening utilizing fission yeast genetics identified Acremomannolipin A, a Calcium signalling modulator with anti-tumor activity**  
 16:20~16:30      Ryosuke Satoh (Kindai University, Japan)
- O-35**            **The coupling mechanism between translation and mRNA degradation mediated by RNA-binding protein HuD**  
 16:30~16:40      Akira Fukao (Kindai University, Japan)
- O-36**            **Potential role of glycosylation in regulating biological function of PTPRA**  
 16:40~16:50      Deepa Murali (Academia Sinica, Taiwan)
- O-37**            **Role of Src family kinases in regulation of intestinal epithelial homeostasis**  
 16:50~17:00      Shinya Imada (Kobe University Graduate School of Medicine, Japan)

**Coffee Break** **17:00~17:20**

**Special Seminar** **17:20~18:10**

Chair: Masanori Hatakeyama (The University of Tokyo, Japan)

- S-02**            **Cancer heterogeneity and plasticity based on cancer stem cell biology**  
 17:20~18:10      Hideyuki Saya (Keio University, Japan)

**Saturday Night Party at KURE** **18:30~20:30**

# October 30 (Sun)

**Symposium 7 -Metabolism/Diseases-**

**9:00~10:45**

Chair: Hiroshi Shima (Miyagi Cancer Center Research Institute, Japan)

Ari Elson (The Weizmann Institute of Science, Israel)

**O-38**            **Protein tyrosine phosphatase 1B deficiency in podocytes  
protects against hyperglycemia-induced renal injury**  
9:00~9:20

Fawaz G. Haj (University of California Davis, USA)

**O-39**            **Lacking of dopamine D2L receptor causes vulnerability against  
chronic stress in mice**  
9:20~9:40

Kohji Fukunaga (Tohoku University, Japan)

**O-40**            **Regulation of adipocyte differentiation and lipid droplet  
formation by PPM1D phosphatase**  
9:40~10:00

Kazuyasu Sakaguchi (Hokkaido University, Japan)

**O-41**            **The R3 receptor-like protein tyrosine phosphatase subfamily  
negatively regulates insulin signaling by dephosphorylating the  
insulin receptor at specific sites**  
10:00~10:15

Takafumi Shintani (National Institute for Basic Biology, Japan)

**O-42**            **Skeletal muscle enriched inositol polyphosphate phosphatase  
(SKIP) links ER stress to insulin resistance**  
10:15~10:30

Takeshi Ijuin (Kobe University, Japan)

**O-43**            **Loss of NDRG2/PP2A complex induces global abnormalities in  
protein phosphorylation in cancer development and  
progression**  
10:30~10:45

Tomonaga Ichikawa (University of Miyazaki, Japan)

**Coffee Break**

**10:45~11:00**



## <Poster> October 28 (Fri)

Poster (Odd number)

11:30~13:30

- P-01 (PS-01)**     **A novel A-kinase anchoring protein, BIG3, coordinates estrogen signalling in breast cancer cells**  
Tetsuro Yoshimaru (Tokushima University, Japan)
- P-03 (PS-03)**     **Protein tyrosine phosphatase Shp2 deficiency in the glomerular podocytes attenuates lipopolysaccharide-induced kidney injury**  
Shinichiro Koike (University of California Davis, USA)
- P-05 (PS-05)**     **Therapeutic application of anti-SIRP $\alpha$  antibody in cancer treatment**  
Tadahiko Yanagita (Kobe University Graduate School of Medicine, Japan)
- P-07 (PS-07)**     **ERK-RSK mediated phosphorylation of FilGAP regulates cell migration by promoting the conversion from lamellipodia to membrane blebbing downstream of epidermal growth factor signaling**  
Koji Tsutsumi (Kitasato University, Japan)
- P-09 (PS-09)**     **Role of SIRP $\alpha$  in the homeostasis of fibroblastic reticular cells by dendritic cells in the spleen**  
Datu Respatika (Kobe University, Japan)
- P-11 (PS-11)**     **Mangiferin induced the apoptosis via suppression of NIK/NF- $\kappa$ B pathway in human multiple myeloma cells**  
Toshiki Kino (Kindai University, Japan)
- P-13 (PS-13)**     **Mangiferin, a novel nuclear factor kappa B-inducing kinase inhibitor, suppresses metastasis in a mouse metastatic melanoma model**  
Tomoya Takeda (Kindai University, Japan)

- P-15 (PS-15)**      **Functional Analysis of the Puf family RNA-binding protein Pumilio in stress responses and the inositol phospholipid signaling pathway**  
Masahiro Inari (Kindai University, Japan)
- P-17 (PS-17)**      **Cross-species reaction of anti-human LAT1 with LAT1 of crab-eating monkey**  
Shiho Ueda (Kindai University, Japan)
- P-19 (PS-19)**      **Influence of radixin knockdown on drug efflux transporters of cancer cells**  
Yuta Inoue (Kindai University, Japan)
- P-21 (PS-21)**      **A CC3 variant of lymphotactin/XCL1 (XCL1- CC3) is an effective CTL-inducing adjuvant for cancer immunotherapy**  
Shinya Yamamoto (Kindai University, Japan)
- P-23 (PS-23)**      **The BCR crosslinking-induced phosphorylation of Bcl-xL and apoptosis are controlled by alpha4 in immature B cell**  
Kano Tanabe (Kumamoto Health Science University, Japan)
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- P-25**                **Cav3.2 T-type calcium channels as therapeutic targets for the oxaliplatin-induced peripheral neuropathy**  
Takaya Miyazaki (Kindai University, Japan)
- P-27**                **Interleukin-6-induced neuroendocrine-like differentiation of human prostate cancer cells: cell signaling and upregulation of Cav3.2 T-type calcium channels**  
Kazuki Fukami (Kindai University, Japan)
- P-29**                **A role of macrophage-derived HMGB1 in paclitaxel-induced peripheral neuropathy in mice**  
Risa Domoto (Kindai University, Japan)
- P-31**                **Evaluation of the measurement method of intracellular calcium ion concentration in fission yeast**  
Fumihiko Ogata (Kindai University, Japan)

- P-33**                    **Extra-mitochondrial function of cleaved PGAM5**  
Ayane Yamaguchi (Nagasaki University, Japan)
- P-35**                    **Ca<sup>2+</sup>/calmodulin-dependent protein kinase phosphatase (CaMKP/PPM1F) interacts with neurofilament L and inhibits its filament association**  
Hana Ozaki (Hiroshima University, Japan)
- P-37**                    **Evidence that Warburg effect functions as anti-cancer barrier**  
Nobuhiro Tanuma (Miyagi Cancer Center Research Institute, Japan)
- P-39**                    **Interaction of SHP2 with ALK regulates oncogenicity of neuroblastoma cells**  
Ryuichi Sakai (Kitasato University School of Medicine, Japan)
- P-41**                    **Down-regulation of ErbB2/ErbB3 heterodimer via ERK-mediated phosphorylation of ErbB2 Thr-677 in the juxtamembrane domain**  
Yuki Kawasaki (University of Toyama, Japan)
- P-43**                    **Analyses of the molecular function of PABP interacting protein 1 (PAIP-1) in translational regulation**  
Tomohiko Aoyama (Nagoya City University, Japan)
- P-45**                    **Elucidation of elementary processes in which RNA-binding protein HuD stimulates the cap- poly(A) dependent translation**  
Hiroshi Ohtsuka (Nagoya City University, Japan)
- P-47**                    **High affinity RNA for capping enzyme of *Saccharomyces cerevisiae***  
Yuka Yamada (Kindai University, Japan)
- P-49**                    **Butyrate response factor 1 induces translation repression independently of ARE-mediated mRNA decay**  
Miwa Takechi (Kyoto University, Japan)

- P-51**                    **Analyses of cell type specific translation from IRES mRNA derived from two different poliovirus strains**  
Akitoshi Sadahiro (Kyoto University, Japan)
- P-53**                    **Effect of interaction between RNA binding protein HuD and SMN protein on protein synthesis**  
Daisuke Ikeda (Nagoya City University, Japan)
- P-55**                    **Inhibitory Effects of Oligostilbenoids from the Bark of Shorea roxburghii on Malignant Melanoma Cell Growth: Implications for Novel Topical Anticancer Candidates**  
Takashi Morita (Kindai University, Japan)
- P-57**                    **Mysterious eukaryotic translation initiation factor eIF4H**  
Takumi Tomohiro (Nagoya City, Japan)
- P-59**                    **Novel target molecules for treatment of cancer of unknown primary**  
Yoshihiko Fujita (Kindai University, Japan)
- P-61**                    **Evaluation of binding structures predicted by SDO-VS method**  
Yusuke Namba (Kindai University, Japan)
- P-63**                    **Potential role of glycosylation in regulating biological function of PTPRA**  
Deepa Murali (Academia Sinica, Taiwan)



## <Poster> October 29 (Sat)

Poster Session(Even number)

11:30~12:30

- P-02 (PS-02)      Phyllotaxis Patterns**  
Risa Yamada (Nara Woman's University Secondary School, Japan)
- P-04 (PS-04)      Inhibition of NF-kappaB by mangiferin increased the sensitivity of human multiple myeloma cells to anticancer drugs**  
Yoshika Tomonari (Kindai University, Japan)
- P-06 (PS-06)      Mutation and Inhibition of Hsp90 affect stress granule assembly and MAPK signaling ~Implications of anti-cancer mechanisms of Geldanamycin~**  
Takumi Ikehata (Kindai University, Japan)
- P-08 (PS-08)      Skb5, an SH3 domain adaptor protein, plays a regulatory role in the PKC/MAPK signaling pathway by controlling the intracellular localization of the MAPKKK Mkh1**  
Chisato Ikeda (Kindai University, Japan)
- P-10 (PS-10)      Global gene expression profiling reveals unexpected spectrum of effects of a novel immune modulator FTY720 ~Possible involvement of iron homeostasis as an antitumor property of FTY720~**  
Kanao Hagihara (Kindai University, Japan)
- P-12 (PS-12)      Anti-cancer drug discovery using fission yeast genetics identified a novel analog of 1'-Acetoxychavicol Acetate (ACA) with a potent anti-tumor activity against human melanoma cells**  
Kazuki Matsuura (Kindai University, Japan)
- P-14 (PS-14)      SET/I2PP2A Is a Prognostic Marker and a Potential Therapeutic Target for Gastric Cancer**  
Shuhei Enjoji (Yamaguchi University, Japan)

- P-16 (PS-16)**      **Modification of PP2A Methylation Status Assay and Implication for Protein Phosphatase Methylesterase-1 (PME-1) as a Therapeutic Target for a Subset of Melanoma**  
Ryotaro Yabe (Yamaguchi University, Japan)
- P-18 (PS-18)**      **Identification of specific inhibitors for oncogenic protein phosphatase PPM1D from G-quadruplex DNA aptamer library**  
Atsushi Kaneko (Niigata University, Japan)
- P-20 (PS-20)**      **Inhibition of p53-inducible Ser/Thr phosphatase PPM1D induces differentiation of human testicular embryonal carcinoma cell line**  
Rui Kamada (Hokkaido University, Japan)
- P-22 (PS-22)**      **Effect of inhibition of p53-inducible Ser/Thr phosphatase PPM1D on neutrophil differentiation**  
Fuki Kudoh (Hokkaido University, Japan)
- P-24 (PS-24)**      **Identification of aldolase A as a novel diagnosis biomarker for colorectal cancer based on proteomic analysis using formalin-fixed paraffin-embedded tissue**  
Kanta Sato (Kindai University, Japan)
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- P-26**                **Regulation of Beclin 1 Phosphorylation and Autophagy by PP2A and DAPK3**  
Nobuyuki Fujiwara (Yamaguchi University, Japan)
- P-28**                **Analysis of a direct cell-cell communication signal that regulates glial activation in the brain**  
Tomomi Nozu (Gunma University, Japan)
- P-30**                **Small-molecule inhibition of PTPRZ reduces tumor growth in a rat model of glioblastoma**  
Akihiro Fujikawa (National Institute for Basic Biology, Japan)
- P-32**                **A simple method for preparing nonphosphorylated protein kinases using E. coli strain BL21 (DE3, p $\lambda$ PP) which constitutively expresses  $\lambda$ PPase**  
Kazutoshi Akizuki (Kagawa University, Japan)

- P-34**                    **Role of Chondroitin Sulfate (CS) Modification in the Regulation of Proteintyrosine Phosphatase Receptor Type Z (PTPRZ) Activity: PLEIOTROPHIN-PTPRZ-A SIGNALING IS INVOLVED IN OLIGODENDROCYTE DIFFERENTIATION**  
Kazuya Kuboyama (National Institute for Basic Biology, Japan)
- P-36**                    **Disease-associated EED Ile363Met mutation increases susceptibility to hematologic malignancies**  
Takeshi Ueda (Kindai University, Japan)
- P-38**                    **Elucidation of adipogenesis by the H3K27 histone demethylase Utx**  
Kazushige Ota (Kindai University, Japan)
- P-40**                    **IL-18 amplifies macrophage M2 polarization, leading to enhancement of angiogenesis via up-regulation of osteopontin**  
Takuro Kobori (Kindai University, Japan)
- P-42**                    **The role of histone demethylase KDM4b in breast cancer stem cell**  
Akiyoshi Komuro (Kindai University, Japan)
- P-44**                    **A Genome-wide Screen Reveals Genes Involved in Calcium Signaling and Glycosylation for Tolerance to SKB (Sugiura Kagobutsu B), a Novel Glycolipid with Potent Anti-tumor Activity**  
Ayako Kita (Kindai University, Japan)
- P-46**                    **Lung epithelial cell apoptosis induced by increased ectodomain shedding of cell adhesion molecule 1 in the lungs of emphysema and idiopathic interstitial pneumonia**  
Azusa Yoneshige (Kindai University, Japan)
- P-48**                    **Expression of amino-acid transporters, adhesion molecules and oncogene products in human cancers revealed by novel mAb**  
Takuya Imaida (Kindai University, Japan)

- P-50**            **The diagnosis of an innovation cancer by the antibody secretion hybridoma transplantation and establishment of the treatment system**  
Kazuma Terashima (Kindai University, Japan)
- P-52**            **Aiming at establishment of discrimination method of a male and female of pistachio**  
Erina Komeda (Nara Women's University Secondary School, Japan)
- P-54**            **Hepatoprotective triterpene saponin constituents from roots of Bupleurum falcatum**  
Takuya Konno (Kindai University, Japan)
- P-56**            **Limonoids from Brazilian folk medicine, Andiroba, with fat metabolizing activity in hepatocytes**  
Kiyofumi Ninomiya (Kindai University, Japan)
- P-58**            **Diterpenoids from the Aerial Part of Isodon trichocapus with Melanogenesis Inhibitory Activity**  
Yoshiaki Manse (Kaminomoto Co., Ltd., Japan)
- P-60**            **In situ photopolymerization of polyacrylamide gel for specific entrapment and analysis of a phosphate compounds using microchip electrophoresis**  
Sachio Yamamoto (Kindai University, Japan)
- P-62**            **The role of cyclophilin A as a novel therapeutic target for colorectal cancer**  
Tetsushi Yamamoto (Kindai University, Japan)
- P-64**            **Sulfonic acid formation of the active-site cysteine directs ubiquitin proteasome system-mediated degradation of myocardial protein tyrosine phosphatases**  
Chun-Yi Yang (National Taiwan University, Taiwan)

# Time Table

	<Day1> Oct. 27th (Thu)	<Day 2> Oct. 28th (Fri)	<Day 3> Oct. 29th (Sat)	<Day 4> Oct. 30th (Sun)
9:00		Symposium 2 -Immunity/Disease- 9:00~10:40	Symposium 5 -Molecular Basis of Cancer- 9:00~10:40	Symposium 7 -Metabolism/Diseases- 9:00~10:45
10:00		Break 10:40~10:50	Break 10:40~10:50	Coffee Break 10:45~11:00
11:00		Poster Short Talk (Odd number) 10:50~11:30	Poster Short Talk (Even number) 10:50~11:30	Young Investigators' Session 3 -Phosphorylation and Dephosphorylation- 11:00~11:40
		Poster Presentation (Odd number) 11:30~12:30	Poster Presentation (Even number) 11:30~12:30	
12:00		Lunch (and Poster Viewing) 12:30~13:30	Lunch (and Poster Viewing) 12:30~13:30	Break 11:40~11:50
				Award Lecture Closing Remarks 11:50~12:20
13:00		Reception Starts 13:00~	Symposium 3 -Cellular Signaling and Stress Responses- 13:30~15:20	Symposium 6 -Therapeutic Strategies for Cancer- 13:30~15:30
14:00			Opening Remarks 14:50~15:10	Opening Lecture 15:10~16:00
15:00		Coffee Break 15:20~16:00		
16:00		Coffee Break 16:00~16:20	Young Investigators' Session 1 -Cancer Therapeutics- 16:00~17:00	Young Investigators' Session 2 -Cancer Signaling- 16:00~17:00
	Symposium 1 -Phosphatase- 16:20~18:00	Coffee Break 17:00~17:20	Coffee Break 17:00~17:20	
17:00		Symposium 4 -Phosphatase- 17:20~18:20	Special Seminar 17:20~18:10	
18:00			Saturday Night Party at KURE 18:30~20:30	
19:00				
20:00				