

Federation of the Asian and Oceanian Physiological Societies

# 9th FAOPS

# CONGRESS

in conjunction with The 96th Annual Meeting  
of the Physiological Society of Japan



# Invitation Message

On behalf of the Organizing Committee, we are pleased to invite you to participate in the 9th Federation of the Asian and Oceanian Physiological Societies Congress (FAOPS2019) from March 28th to 31st, 2019, in Kobe, Japan.

FAOPS2019 will be held in conjunction with the 96th Annual Meeting of the Physiological Society of Japan (PSJ). The theme for the Congress is "Philosophy of Life: Function and Mechanisms".

We anticipate 2,000 registrants from Asian and Oceanian countries, who share interests in all aspects of physiological sciences, including advanced research and translational physiology. The Congress will provide a number of interesting events, such as three plenary and ten special lectures, and more than 50 symposiums/seminars as well as special talks and social activities.

The Congress will also be associated with teaching workshop and training course for young researchers. There will be numerous opportunities to gain new knowledge, share technical expertise and the latest research discoveries, and to enjoy scientific and educational interactions.

In addition to attending the Congress, we invite you to enjoy the spring in Japan.

The Congress will be held during the beautiful cherry blossom season.

Kobe is a historical port city and convenient for visiting the most exciting and historic areas, such as Osaka and Kyoto.

Please visit the Web site and register your participation in the Congress.

We look forward to seeing you and your colleagues in Kobe!

Yours sincerely,



J. Nabekura  
President of  
FAOPS2019



Y. Marunaka  
President of  
PSJ



M. Tominaga  
President of  
96th PSJ Meeting



# **PHYLOSOPHY OF LIFE: FUNCTION AND MECHANISMS**

Registration

Aug. 1, 2018 ~

Abstract submission:

Aug. 1~Oct. 2, 2018

Young Scientist Travel Awards application

Aug. 1~Oct. 2, 2018

Host Society: The Physiological Society of Japan

Held under the auspices of:

The Japanese Association of Anatomists

The Japanese Pharmacological Society

The Japan Neuroscience Society

The Japanese Society of Physical Fitness and Sports Medicine

Japanese Society of Anti-Aging Medicine

Japanese Society of Pathophysiology

Japan Society for the Study of Obesity

Japan Neuroendocrine Society

The Biophysical Society of Japan

The Japanese Society of Veterinary Science

Japan Society of Neurovegetative Research

and others.



Kobe Convention Center

# Congress Events by Day

## Mar. 28 (Thu), 2019

Opening Ceremony  
Plenary Lecture (Linda B. Buck)  
Welcome Reception

## Mar. 29 (Fri), 2019

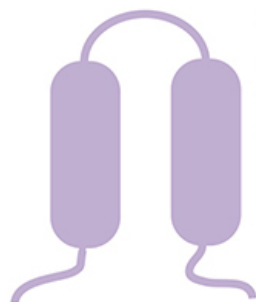
Plenary Lecture (David Julius)  
Special Lectures  
Symposiums  
Technical Workshops  
Meet the Lecturers  
Luncheon Seminars  
Poster Sessions  
Exhibition

## Mar. 30 (Sat), 2019

Plenary Lecture (Yoshinori Ohsumi)  
Special Lectures  
Symposiums  
PSJ and JSPFSM co-organized Special Talk Session  
Nao Kodaira  
Technical Workshops  
Luncheon Seminars  
Poster Sessions  
Congress Dinner (Portopia Hotel)  
Exhibition

## Mar. 31 (Sun), 2019

Special Lectures  
Symposiums  
Exhibition  
Closing Ceremony





## **Registration Fees**

### Early (~Oct. 31, 2018)

- JPY 25,000 (Regular)
- JPY 30,000 (Industry)
- JPY 15,000 (Graduate student)
- JPY 10,000 (Undergraduate student)
- JPY 10,000 (Accompanying person)

### Normal (Nov.1~Dec. 20, 2018)

- JPY 30,000 (Regular)
- JPY 35,000 (Industry)
- JPY 20,000 (Graduate student)
- JPY 10,000 (Undergraduate student)
- JPY 10,000 (Accompanying person)

### Late (Dec. 21, 2018~Feb. 28, 2019)

- JPY 35,000 (Regular)
- JPY 40,000 (Industry)
- JPY 25,000 (Graduate student)
- JPY 10,000 (Undergraduate student)
- JPY 10,000 (Accompanying person)

### Onsite

- JPY 40,000 (Regular)
- JPY 50,000 (Industry)
- JPY 30,000 (Graduate student)
- JPY 15,000 (Undergraduate student)
- JPY 15,000 (Accompanying person)

Young Scientist Travel Awards are prepared to encourage young investigators to participate in FAOPS2019.

# Key Speakers

## Plenary lectures



**Linda B. Buck**

Howard Hughes Medical Institute  
Division of Basic Science  
Fred Hutchinson Cancer Research Center, USA  
"Olfaction and Stress"



**David Julius**

Department of Physiology  
University of California, San Francisco, USA  
"Natural Products as Probes of the Pain Pathway :  
From Physiology to Atomic Structure"



**Yoshinori Ohsumi**

Frontier Research Center  
Tokyo Institute of Technology, Japan  
"Looking Back on 30 Years of Autophagy Research :  
Dynamic Equilibrium of the Cell"

## Special lectures



**Laura Bennet**

The University of Auckland, New Zealand



**Robert G. Carroll**

East Carolina University, USA



**Julie Y. Chan**

Kaohsiung Chang Gung Memorial Hospital, Taiwan  
*'The Sunao Tawara Memorial Lecture'*



**Heping (Peace) Cheng**

Peking University, China





**Graham D. Lamb**  
La Trobe University, Australia



**Uhtaek Oh**  
Korea Institute of Science and Technology, Korea



**Yasushi Miyashita**  
RIKEN Center for Brain Science, Japan  
*'The Susumu Hagiwara Memorial Lecture'*



**Hideyuki Okano**  
Keio University, Japan



**Masashi Yanagisawa**  
University of Tsukuba, Japan

***PSJ and JSPFSM (Japanese Society of Physiological Fitness and Sports Medicine) co-organized Special Talk Session***

***"Towards the Summit with Sport Science"***



Guest Speaker: **Nao Kodaira**  
(Aizawa Hospital; Gold medal in women's 500m speed skating and silver medal in women's 1000m speed skating at the PyeongChang 2018 Winter Olympic Games; World record holder in women's 1000m speed skating)



Guest Speaker: **Masahiro Yuki**  
(Professor, Shinshu University, Sports Sciences Department; National coach of Japan Skating Federation)

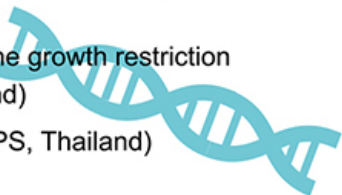


## **Local Scientific Program Committee Symposiums**

- Molecular mechanisms of aging (a joint symposium with Japanese Society of Anti-Aging Medicine)
- Inter-tissue communications underlying metabolic and feeding control in living body
- Thermal biology : A new world of life science
- Teaching physiology : International perspectives
- Advances in understanding cerebellar LTD and motor learning :  
A research field pioneered by Prof. Masao Ito, the leading co-founder of the FAOPS
- Membrane transporters related to diseases and drug development
- Primate researches in Asian regions
- Cutting-edge research topics on skeletal muscle plasticity  
in health and diseases (a joint symposium with JSPFSM)
- Cutting-edge optical imaging of neuronal circuits and synapses
- Frontiers in pain physiology : from detection to the survival behavior
- Toward understanding the neural basis of memory  
(a joint symposium with the Japan Neuroscience Society)
- Mechanomedicine

## **International Scientific Program Committee Symposiums**

- Maternal influences on offspring development (AuPS, Australia)
- From synaptic and network plasticity to behavior (CAPS, China)
- Gastrointestinal control of energy metabolism (CAPS, China)
- Advances in the role of adipocyte in health and disease (CPS, Taiwan)
- Gastrointestinal microbiome and immunophysiology (CPS, Taiwan)
- Cutting-edge approaches to long-lasting questions and novel aspects of  
inward rectifier  $K^+$  channels (ISPP, Israel)
- Leveraging novel techniques to research and translate synaptic  
transmission and plasticity (ISPP, Iran)
- Neurobiology of reward system in the brain (ISPP, Iran)
- Mitochondrial physiology and pathophysiology (KPS, Korea)
- Physiome for organ function (KPS, Korea)
- The consequences of preterm birth, intrauterine growth restriction  
and hypoxia-ischemia (PSNZ, New Zealand)
- Metabolic syndrome and bone metabolism (TPS, Thailand)





## Events at a Glance

28 (Thu) - 31 (Sun), March 2019				
	28 (Thu)	29 (Fri)	30 (Sat)	31 (Sun)
AM		Plenary Lecture 2 (D. Julius)	Plenary Lecture 3 (Y. Ohsumi)	Scientific Programs Exhibition
		Scientific Programs	Scientific Programs	
		Luncheon Seminars	Luncheon Seminars	
PM	Registration	Scientific Programs Exhibition	Scientific Programs Exhibition	Closing Ceremony
	Opening Ceremony Plenary Lecture 1 (L.B. Buck)	General Assembly Meet the Lecturers	Special Talk Session (N. Kodaira)	
Evening	Welcome Reception		Congress Dinner	

## Satellite Events

### ADInstruments Teaching Workshop

ADInstruments Teaching Workshop will be held in the same venue as for the Congress, Kobe Conference Center, on March 27-28.

A separate registration (starts on Oct. 1st, 2018) is required.

<http://www.psj-ki.umin.jp/faops2019-tw/index.html#home>

### Training Course

NIPS/TB (Thermal Biology) Training Course for young researchers to learn various experimental techniques for physiological science will be held after the Congress (Apr. 1st to 5th) in National Institute for Physiological Sciences in Okazaki, Japan.

Travel from Kobe to Okazaki and lodging are supported.

A separate registration (starts on Sep. 1st, 2018) is required.

[http://www.nips.ac.jp/itn\\_tc/2019/index.html](http://www.nips.ac.jp/itn_tc/2019/index.html)

President of FAOPS : Xiao-Min Wang (CAPS, China)

President of PSJ : Yoshinori Marunaka

President of FAOPS2019 : Junichi Nabekura

President of 96th PSJ Meeting : Makoto Tominaga

Vice Presidents of FAOPS2019 :

Fusao Kato ; Treasurer

Noriyuki Koibuchi ; Secretary General

Yasushi Okamura ; Program Chair

### International Scientific Program Committee

Chair : Yasushi Okamura (PSJ, Japan)

Members :

Ying-Shing Chan (CAPS, China) Javad Mirnajafi-Zadeh (ISPP, Iran)

Joanne Davidson (PSNZ, New Zealand) Rosfaiizah Siran (MSPP, Malaysia)

Yoshihiro Kubo (PSJ, Japan) Deanne Skelly (AuPS, Australia)

Chae Hum Leem (KPS, Korea) Linda Chia-Hui Yu (CPS, Taiwan)

Suchinda Malaivijitnond (TPS, Thailand)

### Local Scientific Program Committee

Chair : Yasushi Okamura Vice Chair : Michisuke Yuzaki

Members :

Yoshihiro Ishikawa Yasuhiko Minokoshi Yoichi Ueta

Yoshikatsu Kanai Shohei Mitani Hiroaki Wake

Masanobu Kano Kei Nagashima Hidefumi Waki

Yasuo Kawaguchi Hideki Sakai

Mieko Kurosawa Masato Shibuya

### Local Organizing Committee

Junichi Nabekura Yoshihiro Kubo Yo Shinoda

Yoshihiro Ishikawa Shohei Mitani Makoto Tominaga

Atsuo Fukuda Motohiro Nishida Yoichi Ueta

Fusao Kato Yasushi Okamura Hiroaki Wake

Noriyuki Koibuchi Mariko Omatsu-Kanbe Michisuke Yuzaki

## Visiting Kobe... (<http://plus.feel-kobe.jp/>)



Kobe is the sixth-largest city in Japan and the capital city of Hyōgo Prefecture. Being one of the cities that opened for trading with occidental countries in 1853 after more than 200-years seclusion policy of Edo government. Kobe has been known as a cosmopolitan port city where the international culture, commerce, economy, industry and science meet. The port island, where the convention center is located, is an artificial island created in 1981 under the project of Waterfront in the 21st Century.



Kazamidori-no-Yakata

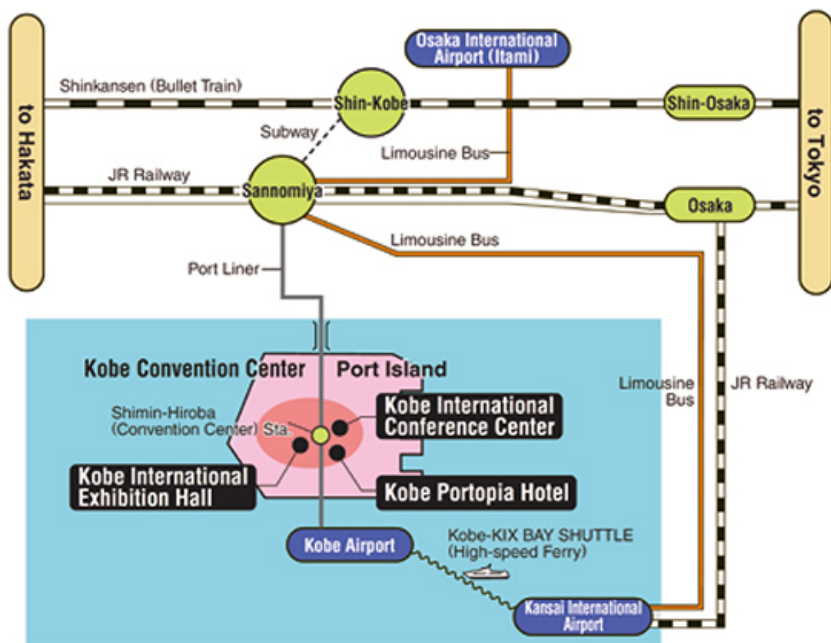


Caffera



Cherry blossoms

## Access to Kobe Convention Center







**March 28-31, 2019**  
**Kobe Convention Center**  
**JAPAN**



Secretary Office : Japan Convention Service, Inc.

E-mail : [faops2019@convention.co.jp](mailto:faops2019@convention.co.jp)

Congress Website : <http://www.nips.ac.jp/FAOPS2019/>

Facebook : <https://www.facebook.com/faops2019/>

Twitter : [https://twitter.com/FAOPS2019\\_KOBE](https://twitter.com/FAOPS2019_KOBE)