

The 26th Plant Organelle Workshop

Date Sat., March 16, 13:00–18:50

Venue Convention Hall, Integrated Research Center of Kobe University

Organizers (*in alphabetical order*): Masanori Izumi (RIKEN), Yoko Ito (Ochanomizu University), Yusuke Kato (Setsunan University), Kensuke Kusumi (Kyushu University), Keiji Nishida (Kobe University), Yoshiki Nishimura (Kyoto University), Junichi Obokata (Setsunan University), Atsushi Takabayashi (Hokkaido University)

Cellular organelles play crucial roles in the development, function, and environmental adaptation of plants. The primary objective of this workshop is to provide an opportunity for researchers from diverse fields to exchange the latest insights and related technologies concerning plant organelles. A mixer is also scheduled. The workshop is open to all and free of charge; however, we recommend advance registration through our website.

<https://sites.google.com/view/plant-organelle-workshop>

13:00 : Opening remarks

Session 1

13:05 : Singularity of membrane fission machinery - why bilaterian synapses operate ultrafast
Yuuta Imoto (St. Jude Children's Research Hospital, Department of Developmental Neurobiology, Division of Neuro Cell Biology) (zoom from the US)

13:45 : Visualization of cargo transport from trans-Golgi network to plasma membrane and vacuole
Yutaro Shimizu¹, Akihiko Nakano¹, Tomohiro Uemura² (¹RIKEN, ²Ochanomizu University)

14:25 : Break

14:35 : Conversion of amyloplast sedimentation into a gravity signaling in Arabidopsis.
Takeshi Nishimura (National Institute for Basic Biology (NIBB), Plant Environmental Responses)

15:15 : Light-harvesting strategies in plants growing under very weak light conditions.
Eiji Gotoh (Faculty of Agriculture, Kyushu University)

15:55 : Break

Session 2

16:05 : Development of transcriptome editing technique based on PPR protein
Takahiro Nakamura (Kyushu University)

16:45 : Development and application of base editing technology
Keiji Nishida (Engineering Biology Research Center and Graduate School of Science, Technology and Innovation, Kobe University)

17:25 : Break

Keynote lecture

17:40 : Horizontal gene transfer and genome evolution -From the time scale of molecules to the evolution-
Junichi Obokata (Setsunan University)

18:40 : General discussion

18:50 : Closing remarks

Contact address: Yoshiki Nishimura: yoshiki@pmg.bot.kyoto-u.ac.jp

Yusuke Kato: yusuke.kato@setsunan.ac.jp

The 41st Meeting of the Japanese Society for Young Plant Physiologists (in cooperation with The Japanese Society of Photosynthetic Research for Young Researchers)

Date Sat., March 16, 14:30–17:00

Venue Room C (hybrid)

Organizers: Minako Isoda (Pref. Univ. of Hiroshima), Takehiro Ito (Tokyo Univ. of Agri. and Tech.), Ko Imaizumi (Kyoto Univ.), Kenya Tanaka (Kobe Univ.), Rikako Hirata (Kyoto Univ.), Senri Yamamoto (Kyoto Univ.)

For more than 40 years, the Japanese Society for Young Plant Physiologists has been working for the development of students and young researchers. This year's meeting is organized jointly with The Japanese Society of Photosynthetic Research for Young Researchers, and is planned as a lecture meeting to discuss the importance of forming research networks among young researchers.

14:30	Opening remarks
14:35	Footwork must be light! Moeko Okada (Niigata Univ.)
15:05	Science is fun when you work together. Yusuke Kobayashi (Ibaraki Univ.)
15:35	Break
15:45	Was it worth the effort? A reflection on 5 years of research networking. Akiko Yoshihara (Osaka Metropolitan Univ.)
16:15	How to get along with D&I Takayuki Shimizu (Nara Women's Univ.)
16:45	General discussion
16:55	Closing remarks

※An onsite social gathering is planned afterwards. If you wish to attend, please check the announcement from the website and SNS account of Japanese Society for Young Plant Physiologists and register in advance.

19th Japan plasmodesmata meeting

Date Sun., March 17, 19:00–21:00

Venue Room G

Organizers: Yuji Fujimoto (Rikkyo University), Michitaka Notaguchi (Kyoto University)

Plasmodesmata are microscopic channels that connect adjacent plant cells and are thought to be sites for the translocation of proteins, RNA, plant hormones, etc. Twice a year, this workshop has held a study session to discuss topics presented by speakers involved in research related to plasmodesmata. This time, we would like to ask Mr. Yusuke Ohba (Tsukuba University) to be our speaker and hold a discussion. No registration is required, but please be advised that you will be asked to sign a confidentiality agreement on the day of the meeting.

The slides will be presented in English, but the presentations will be given in Japanese.

Chair Yuji Fujimoto

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| 19:00 | Opening remarks |
| 19:05 | During the tissue reunion process of <i>Arabidopsis</i> incised stem, the functional analysis of plasmodesmata callose binding protein 2 (PDCB2) |
| 19:30 | Discussion |
| 19:55 | Closing Remarks |

Plant Science Presentation Workshop 2024

“Let’s Speak, Communicate, and Connect!”

Date Sun., March 17, 19:00–20:30 (Reception: 18:30–) **Venue** Room H

Lecturer: Aska Takeuchi (Alba Edu Inc.)

Organizers: Chihiro Furumizu (Hiroshima Univ.) / Yasunori Ichihashi (RIKEN) / Tomoyuki Furuya (Ritsumeikan Univ.)

Summary:

There are many opportunities to convey one’s thoughts to others, such as in research presentations, lectures, teaching, and job hunting.

On the other hand, some of you may not feel comfortable with public speaking and are wondering how to speak in a way that gets across.

In this workshop, you will learn how to make presentations that stick out in an audience’s mind.

Join us and learn from the presentation education professional. Let’s think together about presentations that move people’s hearts and minds.

We also hope that this workshop will inspire new exchanges and research collaboration!

19:00	Opening remarks
19:03	Self introduction—ice breaker
19:11	1. Why speaking skills? What’s the goal? 2. Why we feel uncomfortable speaking in public? 3. Three steps: Think, Communicate, and Show 4. How to appeal more to your audience
20:02	Hearing sessions
20:22	Flash presentations
20:27	Closing remarks

This workshop is free and open to all. Please register in advance using the form below. Registration may close early due to the limited number of participants.

Registration form: <https://forms.gle/BiCDFBc2nYBVUu7t7>

Registration closing date: Fri., March 1

Contact: Chihiro Furumizu (chihiro-furumizu@hiroshima-u.ac.jp)



3rd Symposium on Phototropic Prokaryotes

Date Sun., March 17, 19:00–21:00 (Reception: 18:30-) **Venue** Room X

Organizers: Jiro Harada (Kurume Univ. Sch. Med.), Yusuke Tsukatani (JAMSTEC), Chihiro Azai (Chuo Univ.)

Phototropic prokaryotes such as cyanobacteria and anoxygenic photosynthetic bacteria are now subjects for various fields of studies including biochemistry, molecular biology, structural biology, biophysics, bioorganic chemistry, and microbial ecology. This symposium invites speakers talking their latest achievements and provides new insights into studies on photosynthetic microorganisms including chloroplasts through discussion.

Entry form: <https://forms.gle/w2TdXYtVHjArFQRf9>

Deadline: Fri., March 8



Chairperson: Chihiro Azai

19:00	Opening remarks Yusuke Tsukatani
19:05	“Acylyated plastoquinone is a novel neutral lipid accumulated in cyanobacteria” Toshiki Ishikawa ¹ , Riko Tanikawa ¹ , Haruna Sakaguchi ² , Shunya Takano ¹ , Yukako Hihara ¹ (¹ Grad. Sch. Sci. Eng., Saitama Univ., ² Fac. Sci., Saitama Univ.)
19:35	“Kleptoplasty and insight into evolution of algae” Ryo Onuma (Kobe Univ. Res. Ctr. Inland Seas)
20:05	“Analysis of the regulatory system through supersulfide signaling using purple photosynthetic bacteria as a platform” Takayuki Shimizu (Res. Group Biol. Sci., Nara Women’s Univ.)
20:35	“Discovery of a novel sulfur metabolic pathway involving a nitrogenase-like enzyme of unknown function in <i>Rhodobacter capsulatus</i> ” Yoshiki Morimoto (Grad. Sch. Bioagri. Sci., Nagoya Univ.)
20:55	Closing remarks Jiro Harada

Phytohormones analysis workshop

Date Tue., March 19, 13:30–16:00

Venue Room B

Organizer: Masashi Asahina (Dept.Bisci.,Teikyo University/ Adv. Instrum. Anal.Ctr, Teikyo Univ.)

Phytohormones are a group of compounds that have important role in many aspects of the life cycle. They are known to act at extremely low concentrations, less than a few ng~pg/mg DW. This workshop aims to introduce analytical techniques and fascinating research related to phytohormone analysis and provide an opportunity to discuss the technical basis, methodology, and development of phytohormone research.

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| 13:30 | Opening remarks
Masashi Asahina |
| 13:35 | Quantitative plant hormone analysis at Adv. Instrum. Anal.Ctr, Teikyo Univ.
Emi Yumoto, Masashi Asahina (Adv. Instrum. Anal.Ctr, Teikyo Univ.) |
| 13:45 | Identification of the major jasmonoyl isoleucine receptor in rice.
Koji Miyamoto (Dept.Bisci.,Teikyo Univ.) |
| 14:05 | Dynamics of endogenous phytohormones in plant regeneration.
Mikihisa Umehara (Dept. Appl. Biosci., Toyo Univ.) |
| 14:25 | Introduction of RIKEN CSRS's platform for quantitative phytohormone analysis. -Technical development of analysis from small tissues using nano-LC.-
Mikiko Kojima, Yumiko Takebayashi (RIKEN, CSRS) |
| 14:45 | Comparison of NHP and SA levels during disease response -NHP could be amazing-
Masanori Okamoto (RIKEN, CSRS) |
| 15:05 | Quantitative plant hormone analysis at IPSR, Okayama Univ.
Izumi Mori (IPSR, Okayama Univ.) |
| 15:15 | Life-course phytohormone profiling of field crop.
Takashi Hirayama (IPSR, Okayama Univ.) |
| 15:35 | General discussion |
| 15:55 | Closing remarks |