

The 27th Organelle Workshop / Grant-in-Aid for Transformative Research Areas (A) Cytoplasmic Genome Regulation JOINT SYMPOSIUM

Date Thu., March 13, 13:00–18:50

Venue The Kanazawa Chamber Of Commerce & Industry

Organizers: Shin-ichi Arimura (The Univ of Tokyo), Yuhei Arais (Kanazawa Univ.), Yoko Itoh (Ochanomizu Univ), Yusuke Kato (Setsunan Univ), Yoshiki Nishimura (Waseda Univ), Keiji Numata (Kyoto Univ), Atsushi Takabayashi (Hokkaido Univ)

Organelles play a vital role in plant development, function, and environmental adaptation. This organelle Workshop, held in conjunction with the Transformative Research Project “Cytoplasmic Genome Regulation,” will serve as an international symposium featuring invited speakers from abroad. It aims to provide an opportunity for exchanging the latest insights and related technologies on plant organelles. A mixer is also planned, and we warmly invite you to join us. The workshop is free and open to everyone; however, prior registration through the webpage is strongly encouraged.

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

Web Page



13:00 | Opening remark

Session 1 (13:05–14:50)

13:05 | How to make a chloroplast:

RR-MYB-related transcription factors are master regulators of chloroplast biogenesis
Eftychios Frangedakis^{1,2} (¹Univ of Cambridge, ²Rikkyo Univ)

13:40 | Structure and dynamics of molecular machineries regulating mitochondrial morphology
Yuhei Arais (Kanazawa Univ)

14:15 | Boosting Photosynthesis via Improvement of Rubisco and Rubisco Activase
Wataru Yamori (The Univ of Tokyo)

14:50 | Break

Session 2 (15:00–16:10)

15:00 | Development of mitochondria-targeted nano capsule to transport genome editing devices
Yuma Yamada (Hokkaido Univ)

15:35 | Organelle-targeted Delivery of Multiple Cargoes within Plants Using Carbon Nanomaterials
Simon Law¹, Keiji Numata^{1,2} (¹RIKEN, ²Kyoto Univ)

16:10 | Break

Session 3 (16:20–17:30)

16:20 | Plant Organellar Genome Editing Technologies and Grant-in-Aid for Transformative Research Area A, “Cytoplasmic Genome Regulation”
Shin-ichi Arimura (The Univ of Tokyo)

16:55 | Organellar DNA editing in human cells, animals, and plants
Jin-Soo Kim (National Univ of Singapore)

17:30 | Break

Keynote lecture

17:45 | Chloroplast Genome Engineering: History and the Road Ahead
Pal Maliga (Rutgers Univ)

18:45 | Closing remark

3rd Workshop on Plant Hormone Analysis**Date** Thu., March 13, 13:30–15:55**Venue** Room B**Organizers:** Masashi Asahina (Teikyo University), Izumi Mori (Okayama University)

This workshop provides a guidance of plant hormone analysis for beginners and exchanges the latest research outcome using plant hormone analysis.

- 13:30 Open remarks
Masashi Asahina^{1,2} (¹Dept Biosc., Teikyo Univ., ²Adv. Instrum. Anal. Ctr, Teikyo Univ.)
- 13:35 For those interested in plant hormone analysis - Quantitative plant hormone analysis at Adv. Instrum. Anal.Ctr, Teikyo Univ.
Emi Yumoto (Adv. Instrum. Anal.Ctr, Teikyo Univ.)
- 13:45 Introduction to the Phytohormone Analysis Platform at RIKEN CSRS
Mikiko Kojima¹, Yumiko Takebayashi¹, Hitoshi Sakakibara² (¹RIKEN CSRS, ²Grad. Sch. BioagriSci., Nagoya Univ.)
- 13:55 Quantification of IAA from small maize coleoptile tissues by using nano-LC/MS and LMD
Hiromi Suzuki^{1,2}, Yumiko Takebayashi², Mitsunori Seo^{2,3} (¹Sch Biosci Biotechnol, Tokyo Univ Technology, ²RIKEN, CSRS, ³Tropical Biosphere Res Center, Univ Ryukyus)
- 14:15 Introduction to hormone analysis for beginners - how we do at Okayama University
Takakazu Matsuura (IPSR, Okayama Univ.)
- 14:25 Insights from phytohormone measurements in non-hormonal research
Hiroshi Takagi^{1,2}, Takato Imaizumi¹ (¹Dept. Biol., Univ. Washington, ²Centr. Gene Res., Nagoya Univ.)
- 14:45 Wound response and anesthesia in plants
Moca Iwabuchi¹, Masashi Asahina^{1,2,3} (¹Grad. Sch. Sci & Eng., Teikyo Univ. ²Dept Biosc., Teikyo Univ. ³Adv. Instrum. Anal.Ctr, Teikyo Univ.)
- 15:05 Perception Mechanisms of Environmental Stimuli Mediated by Plant Hormones
Mika Nomoto^{1,2,3}, Yasuomi Tada^{1,2} (¹Centr. Gene Res., Nagoya Univ., ²Grad. Sch. Sci., Nagoya Univ., ³PRESTO, JST)
- 15:25 Toward clarifying the relationship between the accumulation of plasmodesmata callose and auxin transport/responsiveness.
Yusuke Ohba (Dept Biosc., Teikyo Univ.)
- 15:45 Closing remarks
Izumi Mori (IPSR, Okayama Univ.)

The 42nd Meeting of the Japanese Society for Young Plant Physiologists

Date Thu., March 13, 15:30–18:00

Venue Room Z (hybrid)

Organizers: Minako Isoda (Pref. Univ. of Hiroshima), Takehiro Ito (Tokyo Univ. Agr. & Technol.), Airi Oh (Nagoya Univ.), Ryo Tachibana (Kyoto Univ.), Tatsuyoshi Nakanishi (Nara Inst. Sci. & Technol.)

The Japanese Society for Young Plant Physiologists has supported the development of students and young researchers for over 40 years. This year's meeting, "Learning from Diverse Careers: My Path Forward," features four speakers with unique experiences, including international research, transitions between academia and industry, and founding university-based ventures. We hope their talks inspire your career exploration.

15:30	Be ready to grab a chance at any time! Satoshi Ogawa (Institute for Chemical Research, Kyoto University)
16:00	Connect the Dots Hitomi Katogi (United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology)
16:30	Break
16:40	How I Ended Up Working at a Startup in Shibuya Rin Asaoka (Acaric Co., Ltd.)
17:10	Basic research isn't just useful—it's a driver of profit and innovation Takashi Osanai (School of Agriculture, Meiji University, Cyanology Co. Ltd.)
17:40	Closing remarks
18:00	Closing

※An on-site social gathering is planned following the seminar. If you would like to participate, please check the information on the website and social media accounts of the Japanese Society for Young Plant Physiologists and register in advance.

21st Japan plasmodesmata meeting

Date Fri., March 14, 18:30–20:30

Venue Room D

Organizers: Yusuke Ohba (Teikyo 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 Prof. Kenichi Nonomura (National Institute of Genetics) 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 presentations will be given in Japanese.

Chair: Yusuke Ohba

18:30	Opening remarks
18:35	Intercellular communication and meiotic cell cycle control in the anther
19:15	Discussion
19:55	Closing Remarks

Plant Science Presentation Workshop 2025

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

Date Fri., March 14, 19:00–20:30 (Reception: 18:30–) **Venue** Room B

Lecturer: Aska Takeuchi (Alba Edu Inc.)

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

Summary:

Opportunities to speak English in research presentations and classes are increasing, and the scope of communication is expanding.

In this workshop, you will learn tips for communicating in English in a variety of presentation settings. The program will cover the differences between Japanese and English dialogue techniques, tips for preparing presentations, vocal and pronunciation training, and much more. Join us and learn from a professional presentation educator.

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

19:00	Opening remarks and 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. If possible, please register in advance using the form below. Registration may close early due to the limited number of participants.

Registration form (in Japanese): <https://forms.gle/VtdkPTye5Doqfuej6>

Closing date for pre-registration and bento meal arrangements: Sun., March 2

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

