Day 1, Lunch time | Luncheon Seminar

Tue., March 22, 12:30–13:30 Room X

Leica Microsystems K.K. Luncheon Seminar
New normal of fluorescence microscopy and fluorescence lifetime imaging

Language: Japanese

Sponsor: Leica Microsystems K.K.

Title 1

New normal of fluorescence microscopy with THUNDER

Speaker: Nobuhide Tsurumaki (Leica Microsystems K.K.)

Nowadays, fluorescence observation is used by many researchers as a "normal" instrument in the research field. However, at COVID-19 calamity, it is becoming increasingly important to understand how to conduct research under time constraints. Therefore, we propose the "new normal of fluorescence microscopy" with the THUNDER imaging system, which is an ordinary fluorescence microscope that can acquire ultra-high-resolution images, focusing on how to make fluorescence observation more efficient and produce maximum results in a limited time.

Title 2

Fluorescence lifetime imaging with Leica confocal microscope STELLARIS

Speaker: Suguru Osari (Leica Microsystems K.K.)

Leica Microsystems has launched next generation confocal microscopes, STELLARIS. In addition to improved detection sensitivity and resolution, the new product also provides a fluorescence lifetime technology that can be easily used by anyone, which has been used only for specific applications. In this seminar, we will discuss "What is fluorescence lifetime?" and "What can you do with that?" The following are some of the technologies that STELLARIS can help you with in life science imaging.

Tue., March 22, 12:30–13:30 Room Z

PCP
PLANT & CELL PHYSIOLOGY

PCP Luncheon Seminar
“The changing landscape of peer-review”

Language: English

Peer-review is an essential component of science publishing, as it scrutinizes manuscripts for scientific accuracy and bias, and authors largely agree that the process generally improves the final published work. Reviewers are thus the unsung heroes of this process, as they offer their voluntary time and expertise to the scientific community. In this luncheon seminar, we discuss the changing landscape of peer-review and highlight the changes that PCP has incorporated to also support early career scientists in this process. In addition, we will discuss best practice tips for all reviewers.

Speaker: Wataru Sakamoto, Editor-in-Chief

Symposium outline:

1. Introduction - updates and new developments at PCP
2. The changing landscape of peer-review
3. Peer-review at PCP
4. Q & A - the audience will be given the opportunity to ask questions to the PCP Editors and editorial staff at the end of the seminar

Day 2, Lunch time | **Luncheon Seminar**

Wed., March 23, 12:00–13:00 Room X

OLYMPUS CORPORATION Luncheon Seminar

Language: Japanese

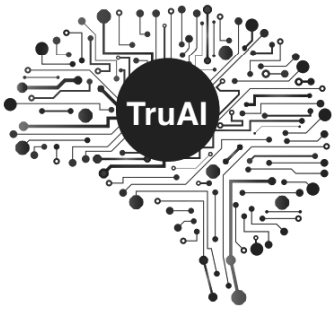
For live imaging and deep Imaging of plant tissues

Speaker: Daisuke Kurihara, Ph.D.
Institute of Transformative Bio-Molecules (ITbM), Nagoya University

Introduction of Application-Driven Objectives/TruAI™ Deep-Learning Technology

Speaker: Naoki Kozai
OLYMPUS CORPORATION

Silicone Immersion Objectives



TruAI™ Deep-Learning Technology

Sponsor: OLYMPUS CORPORATION

OLYMPUS

Wed., March 23, 12:00–13:00 Room Z

Seminar on Gender Equality
What is the career path in Tsukuba Science City?
~From the perspective of a female researcher~

Language: Japanese

Speaker: Dr. Asako Matsumoto (Forestry and Forest Products Research Institute, Research Planning Department, Public Relations Division, Director)

Until entering high school, I grew up under the loving care of my parents, learning piano and ballet, and dreaming of becoming a piano teacher. However, I was taught by a wonderful biology teacher in high school and then decided to study agriculture at university and to become a researcher. But, even when I was studying at my local university, I never imagined what research life would be like in Tsukuba Science City. My research career in Tsukuba started as postdoctoral fellow on a research project. Then I got a job as a researcher, and now I'm currently working in a managerial position in the support department. In this seminar, I would like to talk candidly about the ups and downs of my work over the last 20-odd years, thinking about my work environment, work-life balance, and my career path. Finally, I would like to talk about my thoughts on my future career, as well as thinking about how the promotion of gender equality has helped me in my research career so far. Even though today's talk is just one example of a female researcher, I hope you will find some useful insights and ideas from it.

Thu., March 24, 12:00–13:00 Room X

Illumina K.K. Luncheon Seminar

Language: Japanese

“The personal genomics era in plant”

Dr. Kenta Shirasawa
(Laboratory of Plant Genetics and Genomics, Kazusa DNA Research Institute)

Sponsor: Illumina K.K.

Plant genomics, which began with *Arabidopsis* as a model, has expanded to involve non-model plants, and we are now entering the era of personal genomics, in which genome analysis is performed at the individual plant level. With the great advance in next-generation sequencing technology, it has become easier to obtain genome data of individuals. On the other hand, plant researchers are required not only to learn bioinformatics techniques, but also to have the computational resources to process huge amounts of data. In this talk, I would like to introduce the current status and challenges of personal genomics in plant conducted by our team, in addition to the efforts to get through the era of personal genomics by introducing the DRAGEN system.

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