

5th AIST International Imaging Workshop

January 21-30, 2018

Biomedical Research Institute (<https://unit.aist.go.jp/bmd/en/>)
National Institute of Advanced Industrial Science & Technology (AIST)
1-1-1 Higashi, Tsukuba Science City 305 8566, Japan

The AIST International Imaging Workshop is a residential 10-days course held at the Biomedical Research Institute, AIST offering a wide range (from the principles of light microscopy to super resolution imaging) of microscopy training to young talented researchers. Participants will be trained through hands-on practical sessions in several critical and important issues related to imaging technologies.

Who can join?

The course is suitable for both beginners and experienced users wanting to gain a greater understanding of the microscope. Students are selected through recommendation from their supervisor internationally from a range of backgrounds. Preference will be given to doctoral level students. The course will have a maximum of 20 delegates.

Language?

The course, including the course materials, will be conducted in English.

Support?

Selected candidates will be provided (1) Airfare (return) by economy class through the most direct route from the international airport in their home country to Japan, (2) Limousine fare from Narita International airport to Tsukuba Center, (3) Single room accommodation at the AIST Guest House and (4) Allowance to cover the daily meals.

Course Details

Laboratory Course 1: Basic training in Microscopy
Anatomy of the light microscope, Basic optics, Lenses, Bright field, Phase contrast, DIC, Fluorescence, Fluorochromes and Filters, Fluorescence imaging, Basic microscope maintenance

Laboratory Course 2: Basic training in Laser Scanning Microscopy
Learn the basic technique for a confocal microscopy, including spectral imaging, photo-activation, calcium imaging etc.

Laboratory Course 3: Training in the latest microscopic analysis
Learn the principle and techniques of recently-developed novel microscopic technologies, such as Super-resolution Microscopy, FCS analysis, Electron Microscopy, and so on..

Laboratory Course 4: Training in Bioluminescence Screening & Imaging
Learn the principle and techniques in high throughput screening & cell imaging based on bioluminescence technology

Program

January 21 – Arrival, Reception & Networking

January 22 – Orientation; Lectures on Basic Principles of Microscopy

January 23 – Course 1: Basic Training in Microscopy

January 24-26 – Course 2: LSM
Course 3: Latest Microscopic Analyses
Course 4: Bioluminescence Screening & Imaging

January 27-29 – Tour to Microscope Companies in Tokyo & Around

January 30 – Departure

Instructors: Y. Ohmiya, K. Katoh, T. Ebihara, T. Ochiishi, Y. Sasaki, K. Kiyosue, T. Tomita, Y. Shinkai, H. Inagaki, K. Ogawa and M. Doi

Organizers: Y. Ohmiya, R. Wadhwa, Y. Onishi, M. Doi and S. Kaul

Sponsors: Nikon, ATTO, Hamamatsu Photonics, Olympus and Zeiss

Deadline for application - September 15, 2017

For further information:
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