4th AIST International Imaging Workshop January 16-21, 2017

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 one-week 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 15-16 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 15 - Arrival and Reception

January 16 - Orientation; Lectures on basic principles of microscopy

January 17 - Course 1: Basic training in Microscopy

January 18 ~ 19 - Course 2: LSM

Course 3: Latest Microscopic Analyses Course 4: Bioluminescence Screening & Imaging

January 20 – Tour to imaging companies in Tokyo

January 21 - Departure

Instructors: Y. Ohmiya, K. Katoh, T. Ebihara, T. Ochlishi, 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 Deadline for application- October 15, 2016 For further information: s-kaul@aist.go.jp







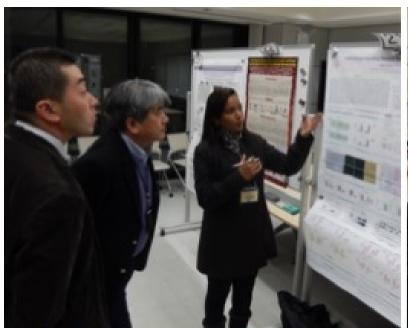


Review and Report

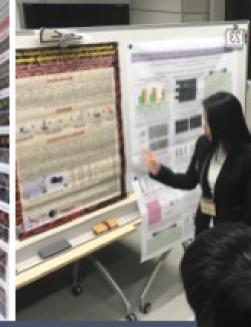
DAILAB has been conducting one-week full residential training workshop for bioimaging that ranged from the principles of light microscopy to high-resolution imaging instructed by AIST experts with assistance from Nikon, Olympus, Zeiss and ATTO Corporations. Four annual workshops have been successfully completed. Intensive lectures in the mornings by experts in the field were followed by hands-on microscope training in the afternoons. Tours to microscope companies in Tokyo were organized for providing a feel of connectivity of science to technology, and were thoroughly appreciated at all ends including organizers, trainees and industries.











Poster BAR and AWARDS- Jan 16, 2017











Classroom and Laboratory Lectures- Jan 17, 2017













