6th AIST International Imaging Workshop
January 20-27, 2019
Biomedical Research Institute, AIST, 1-1-1 Higashi, Tsukuba Science City

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 microscope 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 (return) 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 microscope, 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 principles and techniques in high throughput screening & cell imaging based on bioluminescence technology

Program
January 20 - Arrival, Reception & Networking
January 21 - Orientation: Lectures on Basic Principles of Microscopy
January 22 - Course 1: Basic Training in Microscopy
January 23-25 - Course 2: LSM Course 3: Latest Microscopic Analyses
Course 4: Bioluminescence Screening & Imaging
January 26 - Tour to Microscope Companies in Tokyo & Around
January 27 - Departure

Organizers: Y. Ohmiya, R. Wadaha, Y. Onishi, M. Ooi and S. Kaul
Sponsors: Nikon, ATTO, Olympus and Zeiss
Deadline for application - September 15, 2018

For further information: a-kaul@aist.go.jp
Selected Participants for the 6th Imaging Workshop
SEVEN STEP SELECTION OF POSTER PRESENTATION AWARDS

First - Chandan KUMAR
RCB (INDIA)

Second – Priyanshu BHARGAVA
AIST (Japan)

Third – Sungha JO
HU (South Korea)
Concluding Ceremony & Awards

Students Honored the Mentors