4th AIST International Imaging Workshop
January 16-21, 2017
Biomedical Research Institute (https://unit.aist.go.jp/bmi/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 supervisors 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 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 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

Organizers: Y. Ohmiya, B. Wadhwa, Y. Onishi, M. Doi and S. Kaul
Sponsors: Nikon, ATTO, Hamamatsu Photonics

Deadline for application- October 15, 2016

For further information:
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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

3rd Prize
Nalaka WIJEKON &
Kritika GOYAL

1st Prize
Amrita KUMARI

2nd Prize
Smriti GUPTA