

# 6<sup>th</sup> AIST International Imaging Workshop

## January 20-27, 2019

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?

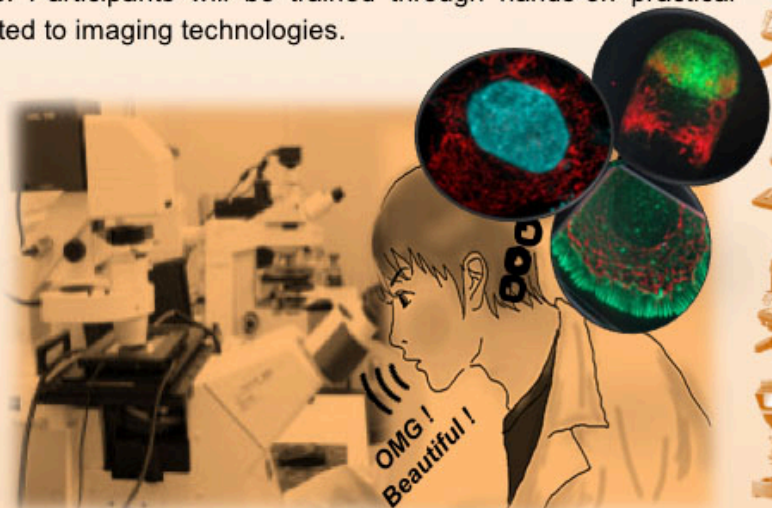
The course is suitable for both beginners and experienced users wanting to gain a greater understanding of the microscope. Students are selected through recommendation from their supervisor internationally from a range of backgrounds. Preference will be given to doctoral level students. The course will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

**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, 2018**

For further information:  
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