

2023.1.16

(mon)

– 1.20

(fri)

Imaging Boot Camp 2022

The Imaging Boot Camp is designed to meet the needs of each researcher, from basics to applications. This is a workshop where you can learn about fluorescence imaging and experience it. Microscope-related companies gather at Hokkaido University for the first time in three years! If you are interested, please join us. We welcome beginners!

Venue : Hokkaido University
School of Medicine Central Hall
Capacity : 50 participants



← Click here to apply for participation

Deadline : November 30th

Organizer : Department of Cell Physiology, Graduate School of Medicine, Hokkaido University

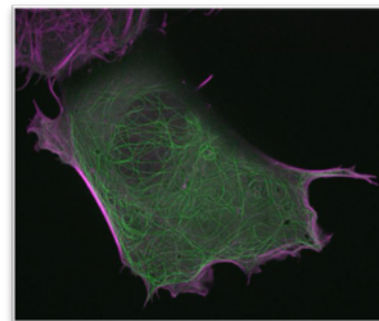
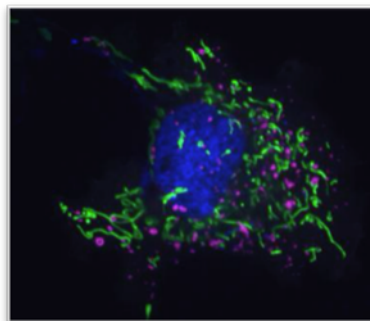
Co-sponsored : Grant-in-Aid for Transformative Research Areas(A), Biophysical Chemistry for Material Symbiosis

Sponsoring copanies :



1/16(MON) Basics of microscopy

A M	Opening
	【Lecture】 Introduction to bioimaging
	【Movie】 Fundamentals of imaging
P M	【Movie】 Microscopy basics
	【Practice】 Fluorescence observation① Cell preparation
	【Practice】 Assembling the microscope



Left image: acquired with CrestOptics X-Light V3 spinning disk confocal

1/17(TUE) High resolution imaging

A M	【Movie】 System introduction <Spinning disk confocal microscope • Super-resolution microscope >
	【Special lecture】 Professor Ozawa, The University Tokyo
P M	【Practice】 Fluorescence observation② Transfection
	【Practice】 Comparison of Filter, Comparison of Camera

Special lectures

17th January

New development of intracellular signal analysis method that observes and manipulates with light



Department of Chemistry, School of Science, The University Tokyo

Professor Takeaki Ozawa

1/18(WED) Wide-field imaging

A M	【Movie】 System introduction <Wide-field microscope >
	【Special lecture】 Professor Horikawa, Tokushima University
P M	【Practice】 Fluorescence observation③ Observation Wide-field imaging
	【Practice】 Fluorescence observation④ Analysis Wide-field imaging
	【Lecture】 Super-resolution imaging

18th January

Simultaneous analysis of micro and macro by wide-field observation



Division of Bio-imaging, Advanced Research Promotion Center, Tokushima University

Professor Kazuki Horikawa

1/19(THU) Various imaging

A M	【Movie】 System introduction <TIRF/HILO microscope • Live-cell high-speed AFM >
	【Special lecture】 Professor Aoki, National Institutes of Natural Sciences
	【Lecture】 AFM imaging
P M	【Practice】 TIRF/HILO, AFM imaging
	【Practice】 Fluorescence observation⑤ Observation Super-resolution imaging
	【Practice】 Fluorescence observation⑥ Analysis Super-resolution imaging
	Closing

19th January

Quantitative analysis of cell cycle using fluorescent probes and optogenetics

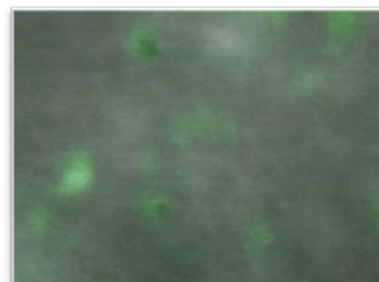
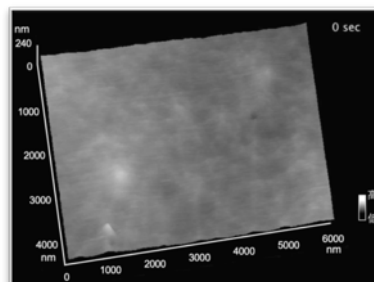


Exploratory Research Center on Life and Living Systems, National Institutes of Natural Sciences

Professor Kazuhiro Aoki

1/20(FRI) Optional program

All day	Demonstration of sample brought in by participant
	Consultation



※There is a break during the program.