



The course will cover all the way from the fundamentals of optical microscopy to state-of-the-art, multi-dimensional wide field fluorescence, confocal, super-resolution and light-sheet microscopy systems. Participants will learn through lectures, practical demonstrations and discussions, designed to deliver the principles and applications of modern microscopy.

A strong emphasis will be placed on 'choosing the right tool for the job'. Participants will also learn to obtain and interpret microscope images, to assess data for common errors and artifacts, and to perform quantitative optical measurements.

The course will benefit primarily graduate students postdoctoral trainees and research scientists in the biological sciences. Non-biologists seeking a comprehensive introduction to microscopy and digital imaging in the biomedical sciences will also benefit greatly from this course.

ABIS

第7回ABIS光学顕微鏡トレーニングコース

「顕微鏡観察の基礎から応用まで」
～組織透明化の概念と観察方法の組み合わせ～

Advanced Light Microscopy Course at OIST

2023
Jan. Mon. 23rd ▶ Tue. 24th
9:00-18:00 **OIST campus, C209**

Okinawa Institute of Science and Technology Graduate University

REGISTRATION
REQUIRED

APPLICATION DEADLINE

2022
Wed. Dec. 28th



<https://groups.oist.jp/img/7th-abis-advanced-light-microscopy-course-oist>

Topics

- Basics of optics and microscopy
- Modern techniques for fluorescence live imaging
- Practical aspects in fluorescence light microscopy for biosciences
- Hyphenated techniques in microscopy
- Introduction and principals of superresolution fluorescence microscopy
- Current opinions in clearing methods for neuroscience
- Light-sheet microscopy: theory and applications

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