



## Colloquium

# Multi-scale fluorescence imaging

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**Date: 2025/05/06(Tue)**

**Venue: S4-625**

**Time: 14:00-16:00**

Abstract :

Fluorescence imaging is a fundamental tool in modern molecular cell biology. This presentation will outline the basic principles of advanced fluorescence techniques, including single-molecule localization and light-sheet microscopy. It will demonstrate the applications of these microscopy tools across various biological phenomena of different scales, from molecular inter-organelle trafficking to the localization of neurotransmitters in a fruit fly's brain. The audience will gain insight into contemporary developments in microscopy and learn how physicists can apply their expertise to current research in molecular biology.