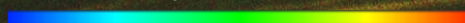


COST ACTION PLANTWALLK · IMAGING FACILITY IEB CAS · TRAINING SCHOOL

Beyond Intensity: FLIM for Plant Cell Wall Imaging

Fluorescence lifetime

0.5 ns  4 ns

Plant cell wall stained with the porosity dye CarboTag-BDP
(Arabidopsis root)



Overview

This training school introduces the principles and practical application of Fluorescence Lifetime Imaging (FLIM) microscopy in plant cell wall research, combining a theoretical lecture with two parallel hands-on sessions.



Date

15–16 September 2026



Venue

Institute of Experimental Botany of the Czech Academy of Sciences – Imaging Facility
Rozvojová 263, Prague 6, Czech Republic
Building B1, ground floor – Imaging Facility & Lecture Room



Programme

DAY 1

- FLIM theory lecture
- **Hands-on A**
FLIM microscopy: CarboTag-BDP cell wall staining, imaging, analysis and presentation (Abberior Mirava Polyscope) across plant samples (Arabidopsis, moss, BY-2 suspension cells)
- **Hands-on B** – PlantWallK: inventory strategy & building

DAY 2

- Hands-on sessions A and B continue
- Wrap-up and concluding remarks



Application deadline

16 August 2026



Notification of selection results

19 August 2026



Apply via the web form on www.plantwallk.org