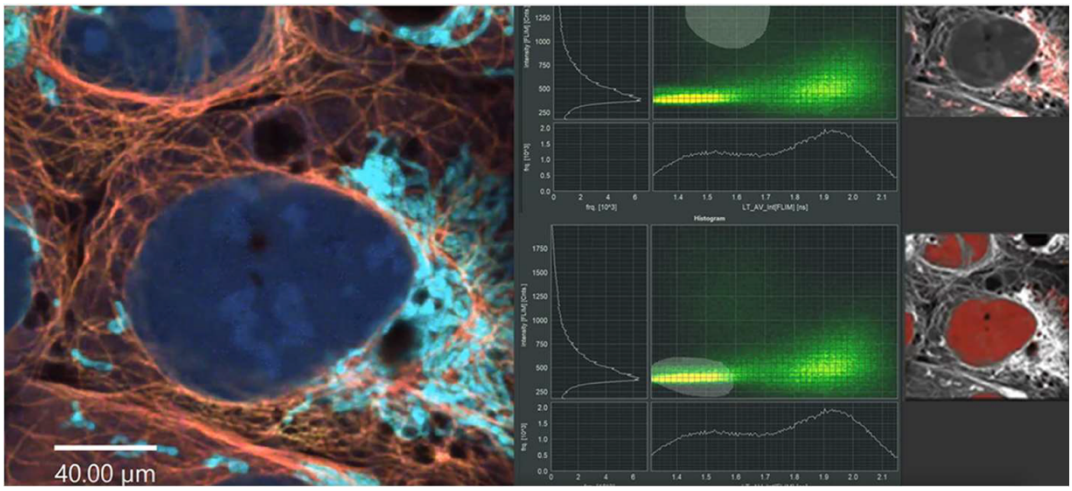
Euro-BioImaging, in partnership with its Industry Board member PicoQuant, will be offering the following workshop during the Euro-BioImaging All-Hands meeting 2025:

Workshop on Fluorescence Lifetime Imaging (FLIM) Analysis

Fluorescence Lifetime Imaging (FLIM) is a powerful tool for unravelling molecular interactions and microenvironmental dynamics within biological samples. This workshop is tailored for bioimaging core facility managers and users and it is focusing exclusively on the analysis of FLIM datasets. Participants will gain practical experience working on PC workstation with provided test data, exploring state-of-the-art techniques and workflows to enhance reproducibility and data interpretation.

The workshop is structured around three key aspects of FLIM analysis:

- **Quantitative and Reproducible FLIM:** Seamlessly integrate phasor plot analysis, exponential decay fitting, and pattern matching to achieve robust, reliable, and quantitative results. By focusing on reproducibility, participants will gain tools to minimize subjective interpretation, paving the way for consistent data comparison across experiments and labs.
- **Image Scanning Microscopy (ISM) FLIM:** The higher spatial resolution and improved contrast offered by ISM-FLIM enable the detection of subtle fluorescence lifetime variations, opening new possibilities for studying fine cellular structures and intricate molecular processes without any need of modifying existing labelling strategies.
- **Open and Transparent Data Formats:** Embrace interoperability and transparency in FLIM analysis through the use of accessible and standardized data formats. Enhanced metadata handling promotes better data sharing and reproducibility, showcasing a commitment to open science, fostering collaboration and innovation.



Duration:	90min
Location:	EMBL ATC – Room B18
Number of participants:	max. 9 people per session
Time:	Tue 25th March 14:30-16:00h and 16:30-18:00h (1-2 sessions subject to number of registered participants)