# Workshop

# Macro to Micro: Quantitative Plant Imaging Across Scales

22 – 25 February 2026
Buxted Park,
East Sussex, UK


## Funded places for early-career researchers

Plants are one of the most important lifeforms on our planet, making up the vast majority of biomass on earth as well as being the basis for planetary food supply. To feed a growing population and aid food security, we must understand how plants develop and interact with their environments. This Workshop will showcase and bring together interdisciplinary researchers utilising imaging across different spatial levels in plants. It aims to forge links across these differing imaging areas to increase our holistic understanding of plant physiology. We will have sessions dedicated to methodologies and applications of imaging at:

- Whole plant and tissue scales (e.g., Macroscopes, automated growth chambers, biosensors)
- Cellular and Subcellar scales (e.g., organelle dynamics, organelle-organelle contact sites, super-resolution imaging)
- Ultrastructural scales (e.g., CyroEM, serial block face EM)
- Quantification (e.g., AnalyzER, machine-learning analysis)

A key feature of this Workshop is that we have invited non-plant experts to provide an outside perspective for each of the sessions listed above. This is to stimulate cross model interdisciplinary conversations to further push the boundaries of plant quantitative imaging.

## Organisers

Mark Fricker
Alexander Johnson
Joseph McKenna
Markéta Šámalová

## Speakers

Malcolm Bennett
Federica Brandizzi
Inge De Clercq
Murray Grant
Robert Hasse
Byung Ho Kang
Charlotte Kirchhelle
James Manton
Alex Martiniere
Valerian Meline
Marisa S Otegui
Priya Ramakrishna
Florian Schur
Markus Schwarzländer
Richard Smith
Daniel von Wangenheim

Secure your place* alongside leading experts and other early-career researchers from a diverse range of scientific backgrounds.

**Extended deadline: 5 September 2025**

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