



AMI Workshop:

Sample Preparation for Fluorescence Microscopy

The Africa Microscopy Initiative (AMI) is pleased to announce a sample preparation workshop for fluorescence microscopy, to be held at the AMI Imaging Centre, University of Cape Town (UCT), on **9 - 13 June 2025**.

The **4.5-day** workshop will combine lectures and hands-on immunofluorescence sample preparation practical sessions, covering the following topics:

- Brief introduction to quantitative fluorescence microscopy
- Quantitative experimental design
- Basic principles of immunofluorescence
- Fundamentals of fixatives, antibodies, non-immunological probes, and sample mounting
- Hands-on sample preparation of fixed tissue sections
- Hands-on sample preparation of cultured cell samples
- Evaluation of sample preparation using microscopy

Briefly, the schedule will be as follows:

Day 1	Lectures Sample preparation of fixed tissue sections (first day)
Day 2	Lectures Sample preparation of fixed tissue sections (second day)
Day 3	Sample preparation of cultured cell samples
Day 4	Microscopy and protocol comparison
Day 5 (half day)	Final presentations and discussions

Postgraduate students and early-career researchers from various biology disciplines at the University of Cape Town and the wider Western Cape region are encouraged to apply. Applicants from other provinces in South Africa may also be considered, provided they are able to cover their travel and accommodation costs. The application process is free, and accepted candidates will be required to pay a registration fee of **R2000** (includes light lunches). Selected applicants will be invoiced by UCT for their registration fees.





To apply, please complete and submit the application form through this link: <https://forms.gle/fsvQ7sRE6FUGrJZ77>. The completed application form must be submitted before the deadline of **2nd May 2025 3:00 p.m.** to be considered.

For enquiries regarding the application process or the workshop, please contact **Dr Viantha Naidoo** at viantha.naidoo@uct.ac.za.

Only a limited number of spaces are available - a maximum of 12 participants will be accepted.

Participants will be selected based on research needs and planned microscopy use.

It is mandatory for accepted participants to attend all 4.5 days of the workshop.

