

Global BioImaging Train-the-Trainer 2025 Course

Course Program



MICROSCOPY
AUSTRALIA



Australian Microscopy
& Microanalysis Society



Overview of the course: *The Global BioImaging Train-the-Trainer 2025 Course* is jointly organized by Global BioImaging¹, Microscopy Australia², Light Microscopy Australia³ of the Australian Microscopy and Microanalysis Society⁴, and Canada BioImaging⁵. The course will be conducted in a train-the-trainer format. The course is designed to teach imaging core facility professionals how to organize and deliver effective training programs, including courses and workshops in the field of light microscopy. In addition, the course will provide opportunities for the participants and the faculty to network with each other at the course to foster collaborations on an international level.

When: 17-21 November 2025 (5 full days)

Where: Melbourne, Australia

Venue: [Western Edge Biosciences](#) (opens in Google Maps)

[Western Edge Biosciences](#) (opens in University of Melbourne Maps)

Information pack: [available here](#)

¹ <https://globalbioimaging.org/>

² <https://micro.org.au/>

³ <https://microscopy.org.au/lma/>

⁴ <https://microscopy.org.au/>

⁵ <https://www.canadabioimaging.org/>

Monday, 17th of November

8:30 - 9:00	Registration & light refreshments
9:00 - 9:05	Welcome by the host <i>Paul McMillan (University of Melbourne, Australia)</i>
9:05 - 10:45	Icebreaker session: meet the course attendees <i>All attendees, including faculty and participants (1 min per person)</i>
10:45 - 11:15	Refreshments break
11:15 - 11:45	Overview and purpose of the Train-the-Trainer 2025 Course <i>Claire M. Brown (McGill University, Canada)</i>
11:45 - 12:30	Course logistics and how to host your own course <i>Xiaoxiao Ma (A*STAR Microscopy Platform, Singapore) (30 min + 15 min Q&A)</i>
12:30- 13:30	Networking lunch
13:30 - 14:00	Demonstration of templates and formatting in digital presentations <i>Claire M. Brown (McGill University, Canada)</i>
14:00 - 14:30	Tech bites from our sponsors <i>Sponsors of the event</i>
14:30 - 15:00	Refreshments break
15:00 - 16:00	Discussion in small groups: course management topics (session 1/2) <i>All attendees, divided into 6 groups</i>
16:00 - 16:30	Reporting back in large group: course management topics (session 1/2) <i>Summary presenters</i>
16:30 - 17:30	Core facilities tour #1 <i>Attendance is optional but recommended for all attendees</i>
17:30 - 19:30	Poster session with wine & cheese at Harry Brookes Allen Museum of Anatomy and Pathology <i>Location: Medical Building (Building 181), Floor L3 Invited poster presenters - open for everyone to attend.</i>

Tuesday, 18th of November

9:00 - 9:30	Assessing course impact through feedback, surveys, and testimonials <i>Claire M. Brown (McGill University, Canada) and Gleb Grebnev (Global BioImaging, European Molecular Biology Laboratory)</i>
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Format: two 15-minute talks including Q&A

9:30 - 10:00 How to run courses and workshops with companies: focus on software and hardware

Ellie Hyun-Jung Cho (University of Melbourne, Australia) and Claire M. Brown (McGill University, Canada)

Format: two 10-minute talks followed by a 10-minute Q&A and discussion.

10:00 - 10:30 Introduction to and demo of MyScope⁶ online learning resource

Neftali Flores-Rodriguez (University of Sydney, Australia)

10:30 - 10:45 Refreshments break

10:45 - 11:30 Discussion in small groups: course management topics (session 2/2)

All attendees, divided into 6 groups

11:30 - 12:00 Reporting back in large group: course management topics (session 2/2)

Summary presenters

12:00 - 13:00 Networking lunch

13:00 - 14:00 Teaching phase contrast, darkfield, DIC, and polarizing microscopy

Louise Cole (University of Technology Sydney, Australia)

14:00 - 14:30 Demos of light-matter interaction

Lia Isabel Pietrasanta (University of Buenos Aires, Argentina)

14:30 - 15:00 Tech bites from our sponsors

Sponsors of the event

15:00 - 15:30 Refreshments break

15:30 - 16:00 Discussion in small groups: transmitted light techniques

All attendees

16:00 - 16:30 Reporting back in large group: transmitted light techniques

Summary presenters

16:30 - 16:45 Challenges and solutions for running the Train-the-Trainer 2025 Course

Paul McMillan (University of Melbourne, Australia)

16:45 - 17:00 Outreach event preparations

Paul McMillan (University of Melbourne, Australia)

17:00 - 18:00 Core facilities tour #2

Attendance is optional but recommended for all attendees

⁶ <https://myscope.training/> (MyScope developed and maintained by [Microscopy Australia](#))

Wednesday, 19th of November

9:00 - 12:00 Outreach event at [Medical Building \(Building 181\)](#)
All attendees are invited to participate. Attendees will be divided into six groups, with one station assigned to each group. A total of 60 high school visitors will join this outreach event.

12:00 - 13:00 Networking lunch

13:00 - 13:30 Return to the venue and group photo

13:30 - 14:30 Teaching fluorescence, fluorescent probes and dyes selection, and fluorescence microscopy
Amy Bottomley (University of Technology Sydney, Australia)

14:30 - 15:00 Hands-on: Fluorescence, fluorescent probes and dyes selection, and fluorescence microscopy
Amy Bottomley (University of Technology Sydney, Australia)

15:00 - 15:15 Tech bites from our sponsors
Sponsors of the event

15:15 - 15:30 Refreshments break

15:30 - 16:00 Discussion in small groups: Fluorescent probes and fluorescence microscopy
All attendees, divided into 6 groups

16:00 - 16:30 Reporting back in large group: Fluorescent probes and fluorescence microscopy
Summary presenters

16:30 - 17:00 Demo of MyScope⁷ independent learning resource: Fluorescence Module
Neftali Flores-Rodriguez (University of Sydney, Australia)

17:00 - 18:00 Core facilities tour #3
Attendance is optional but recommended for all attendees

⁷ <https://myscope.training/> (MyScope developed and maintained by [Microscopy Australia](#))

Thursday, 20th of November

9:00 - 10:00 **Teaching 3D microscopy**

Jason Hill (Thomas Jefferson University, USA)⁸

10:00 - 10:30 **Developing PowerPoint tools for microscopy teaching: Object creation (session 1/2)**

Jason Hill (Thomas Jefferson University, USA)

Interactive workshop with all attendees.

10:30 - 11:00 **Refreshments break**

11:00 - 12:00 **Developing Powerpoint tools for microscopy teaching: Layering (session 2/2)**

Jason Hill (Thomas Jefferson University, USA)

Interactive workshop with all attendees.

12:00 - 13:00 **Networking lunch**

13:00 - 13:40 **Impact the Global BioImaging network had on your career**

Neftali Flores-Rodriguez (University of Sydney, Australia) and Santosh Podder (IISER Pune, India)

Format: two 20-minute talks including Q&A

13:40 - 14:00 **Career paths in imaging core facilities**

Alfonso Schmidt (Malaghan Institute of Medical Research, New Zealand)

Format: 20-minute talk including Q&A

14:00 - 14:30 **Tech bites from our sponsors**

Sponsors of the event

15:00 - 15:30 **Refreshments break**

15:30 - 16:15 **Discussion in small groups: outreach events**

All attendees, divided into 6 groups

16:15 - 16:45 **Reporting back in large group: outreach events**

Summary presenters

⁸ Remote speaker

16:45 - 17:00 Microscopy Australia

Lisa Yen (Microscopy Australia)

17:00 - 18:00 Core facilities tour #4

Attendance is optional but recommended for all attendees

19:00 - 22:00 Networking dinner at [Il Gambero](#) restaurant

Everyone is invited to attend, with the cost covered by the organizers.

Friday, 21st of November

9:00 - 9:45 Imaging core facility services offered to users

Cameron Nowell (Monash University, Australia)

Amy Bottomley (University of Technology Sydney, Australia)

Nefiали Flores-Rodriguez (University of Sydney, Australia)

Format: three 10-minute talks followed by a 15-minute discussion

9:45 - 10:30 User training: individual or group image analysis training/support

Cameron Nowell (Monash University, Australia)

Ellie Hyun-Jung Cho (University of Melbourne, Australia)

Format: two 15-minute talks followed by a 15-minute discussion

10:30 - 11:00 Refreshments break

11:00 - 11:30 Smart budgeting for courses

Alfonso Schmidt (Malaghan Institute of Medical Research, New Zealand) and Gleb Grebnev (Global BioImaging, European Molecular Biology Laboratory)

Format: two 15-minute talks including Q&A

11:30 - 12:00 Facility management software (billing, booking, and services)

Cameron Nowell (Monash University, Australia)

Format: presentation followed by a discussion with participants

12:00 - 13:00 Networking lunch

13:00 - 13:30 Preparation for “What did I learn this week, and how will I use it?”

Claire M. Brown (McGill University, Canada)

13:30 - 14:30 Bioimaging networks around the globe

Light Microscopy Australia⁹ - Australian Microscopy and Microanalysis Society¹⁰ (10 min)

Paul McMillan (University of Melbourne, Australia)

Microscopy New Zealand¹¹ (10 min)

Alfonso Schmidt (Malaghan Institute of Medical Research, New Zealand)

Latin America BioImaging¹² (10 min)

Lia Isabel Pietrasanta (University of Buenos Aires, Argentina)

Royal Microscopical Society¹³ and Scottish Microscopy Society¹⁴ (10 min)

Leandro Lemgruber Soares (University of Glasgow, United Kingdom)

Global BioImaging¹⁵ (10 min)

Gleb Grebnev (Global BioImaging, European Molecular Biology Laboratory)

14:30 - 14:45 Refreshments break

14:45 - 15:00 Online survey and feedback about the course

15:00 - 16:30 What did I learn this week, and how will I use it?

All attendees (1 slide, 1 minute per person)

16:30 - 17:30 Core facilities tour #5

Attendance is optional but recommended for all attendees

⁹ <https://microscopy.org.au/lma/>

¹⁰ <https://microscopy.org.au/>

¹¹ <https://microscopynz.co.nz/>

¹² <https://labi.lat/>

¹³ <https://www.rms.org.uk/>

¹⁴ <https://scottishmicroscopygroup.org.uk/>

¹⁵ <https://globalbioimaging.org/>

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¹⁶ <https://tissuegnostics.com/>

¹⁷ <https://www.nikon.com.au/>

¹⁸ <https://evidentscientific.com/en/>

¹⁹ <https://www.kleinscientific.com.au/>

²⁰ miltenyibiotec.com/AU-en/

²¹ <https://www.leica-microsystems.com/>