📅 Monday 5 – Light-Sheet Principles and Digital Images

Location: **Corporative Auditorium**

09:00 – 09:15 Welcome session and course overview

09:15 – 10:00 Principles of Light-Sheet Microscopy

10:00 – 11:00 Experimental Design & Sample Mounting

11:00 – 11:45 *Coffee break & Poster Session (given by full attendees only)*

11:45 – 12:30 Visualization and processing of digital images

12:30 – 13:00 Best practices in microscopy data management

13:00 – 14:00 *Lunch Break*

Practical Afternoon Session

14:00 – 14:30 Sponsor Talk: Microx

14:30 – 15:30 Visualisation of 2D images

15:30 – 17:30 Visualisation of 3D images

📅 Tuesday 6 – Image Processing and Multiview Reconstruction

Location: **Science Auditorium**

09:00 – 10:00 Image processing and analysis

10:00 – 11:00 Multiview reconstruction and tissue cartography

11:00 – 11:45 *Coffee break & Poster Session (given by full attendees only)*

11:45 – 13:00 Multiview reconstruction

13:00 – 14:00 *Lunch Break*

Practical Afternoon Session

14:00 – 14:30 Sponsor Talk: Galenica

14:30 – 16:00 Pre-processing, denoising, segmentation

16:00 – 17:30 ImageJ macro programming

📅 Wednesday 7 – Machine Learning and Advanced Workflows

Location: **Science Auditorium**

09:00 – 10:30 Deep Learning

10:30 – 11:00 *Coffee Break*

PRACTICAL: MORNING SESSION

11:00 – 12:30 3D Segmentation using machine/deep learning

12:30 – 13:00 Sponsor talk: Bruker

13:00 – 14:00 *Lunch Break*

PRACTICAL: AFTERNOON SESSION

14:00 – 16:00 Tissue Cartography

16:00 – 17:30 Cell Tracking

📅 Thursday 8 – Scientific Applications

Location: **Science Auditorium**

09:00 – 09:30 Dr Bruno Vellutini

09:30 – 10:00 Dr Marina Cuenca

10:00 – 10:30 Dr Charlotte Buckley

10:30 – 11:00 Dr Leonardo Valdivia

11:00 – 11:30 *Coffee Break*

PRACTICAL: MORNING SESSION

11:30 – 13:00 Project work (groups)

13:00 – 14:00 *Lunch Break*

PRACTICAL: AFTERNOON SESSION

14:00 – 17:30 Project work (groups)

📅 **Friday 9 – Project work & Presentations**

Location: **Computer Lab**

PRACTICAL: MORNING SESSION

09:00 – 11:00 Project work (groups)

11:00 – 11:30 *Coffee Break*

PRACTICAL: MORNING SESSION

11:30 – 13:00 Project work (groups)

13:00 – 14:00 *Lunch Break*

PRACTICAL: AFTERNOON SESSION

14:00 – 16:30 Group Presentations

16:30 – 17:00 Closing Remarks

17:00 – Onwards Group Dinner