

MODERN IMAGING TECHNIQUES IN BIOLOGY

ORGANIZERS: *Prof. Alex Costa, Dr. Nadia Santo*

SPEAKERS: *Prof. Andrea Bassi
Dr. Federica Moalli
Dr. Daniele Ancora
Prof. Andrea Falqui
Dr. Andrea Raimondi
Dr. Laura Sironi*

INSTRUCTORS: *Prof. Alex Costa
Dr. Nadia Santo
Dr. Miriam Ascagni
Dr. Laura Madaschi
Dr. Stefania Saccucci
Dr. Norma Lattuada
Dr. Matteo Grenzi*





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PROGRAM

13/09/2021 G09

Day 1 – Optical and Electron Microscopy

9:00 – 9:30 Opening & Welcome

Chair: *Alex Costa*

9:30-10:30 **Andrea Bassi**: Fundamentals of optical microscopy

10:30-11:30 **Federica Moalli**: Deep imaging

11:30-12:30 **Daniele Ancora**: Image analysis

12:30-14:30 **Lunch break**

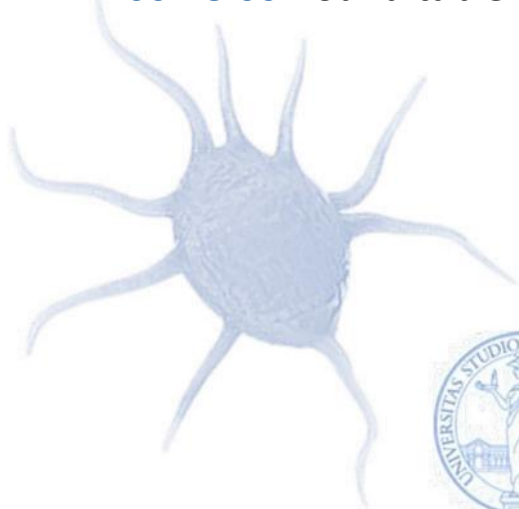
Chair: *Nadia Santo*

14:30-15:30 **Andrea Falqui**: Electron microscopy

15:30-16:30 **Andrea Raimondi**: TEM tomography

16:30-17.00 **Laura Sironi**: Innovation in optical microscopy

17:00-18.00 Round table and final discussion





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PROGRAM

15/09/2021 UNITECH NOLIMITS

Day 2– Theoretical and practical sessions

9:30-12:30

9:30-10:30 Alex Costa: Imaging tool @ NOLIMITS

10:30-12:30 NOLIMITS Team: What kind of microscope do you need for your project?

12:30-14:00

Lunch break

14:00-17:30

1. 2 PhD students (20 min): Confocal Scanning Microscopes. Instructor: Miriam Ascagni
2. 2 PhD students (20 min): Spinning disk Confocal. Instructor: Alex Costa and Matteo Grenzi
3. 2 PhD students (20 min): Multiphoton Microscope. Instructor: Laura Madaschi
4. 2 PhD students (20 min): TEM. Instructor: Stefania Saccucci
5. 2 PhD students (20 min): TEM samples. Instructor: Norma Lattuada
6. 2 PhD students (20 min): SEM. Instructor: Nadia Santo

Note: The 15th and 16th a portable Scanning Electron Microscopy will be available for DEMO in the G09 room. Provided by Quantum Design s.r.l.



PROGRAM

16/09/2021 UNITECH NOLIMITS

Day 3– Practical sessions

10:00-12:30

1. 2 PhD students (20 min): Confocal Scanning Microscopes. Instructor: Miriam Ascagni
2. 2 PhD students (20 min): Spinning disk Confocal. Instructor: Alex Costa and Matteo Grenzi
3. 2 PhD students (20 min): Multiphoton Microscope. Instructor: Laura Madaschi
4. 2 PhD students (20 min): TEM. Instructor: Stefania Saccucci
5. 2 PhD students (20 min): TEM samples. Instructor: Norma Lattuada
6. 2 PhD students (20 min): SEM. Instructor: Nadia Santo

12:30-14:00

Lunch break

14:00-16:30

1. 2 PhD students (20 min): Confocal Scanning Microscopes. Instructor: Miriam Ascagni
2. 2 PhD students (20 min): Spinning disk Confocal. Instructor: Alex Costa and Matteo Grenzi
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4. 2 PhD students (20 min): TEM. Instructor: Stefania Saccucci
5. 2 PhD students (20 min): TEM samples. Instructor: Norma Lattuada
6. 2 PhD students (20 min): SEM. Instructor: Nadia Santo