

In Vitro Cellular Assays for Drug Discovery February 16th – 20th, University of Parma

PROGRAM

MONDAY February 16th

- Morning session

- 09.00 – 09.45 - Roberto PERRIS (University of Parma) - *Introduction*
- 09.45 – 10.00 - Silvia ROSSI (University of Parma) – *Laboratory rules and safety*
- 10.00 – 10.45 - Giorgia BRANCOLINI (CNR-NANO, Modena) – *Computational methods for protein structure and protein-protein interaction analyses*
- 10.45 – 11.15 - Coffee break
- 11.15 – 12.45 - Giorgia BRANCOLINI, Alessandro MOSSA (CNR-NANO, Modena) – *Practical computer simulations (all groups)*
- 12.45 – 14.30 - LUNCH

- Afternoon session

- 14.30 – 17.30 - *Preparation 3D cellular assays* (Lunghi Laboratory)
- *Preparation Comet Assays* (Alessandra Fanelli, Elena Riva)
- *Performing cell adhesion assays* (Silvia Spanò, Graziana Tittaferrante)
- *Antibody internalization assays* (Naomi Borghini)

TUESDAY February 17th

- Morning session

- 09.00 – 10.30 - Bjoern SIEBERER (Evident Srl) - *Fluorescence and confocal microscopy technologies*
- 10.30 – 11.00 - Coffee break
- 11.00 – 11.45 - Pietro DELCANALE (University of Parma) – *Approaches of Super Resolution Microscopy*
- 11.45 – 12.30 - Paolo BIANCHINI (Istituto Italiano di Tecnologia-University of Parma) – *Photon-Resolved Image Scanning Microscopy for Spatial and temporal imaging*
- 12.30 – 14.30 - LUNCH

- Afternoon session

- 14.30 – 17.30 - *Preparation STORM samples* (Erika Boiardi, Simona Demmi)
- *Preparation cell migration assays* (Erika Boiardi, Simona Demmi)
- *Fluorescence microscopy* (Evident Europe GmbH)
- *Confocal laser microscopy* (Evident Europe GmbH)

WEDNESDAY February 18th

- Morning session

- 09.00 – 10.30 - Paolo LUNghi (University of Parma) – *3D cellular models and organoids*
- 10.30 – 11.00 - Coffee break
- 11.00 – 11.45 - Bjoern SIEBERER (Evident Srl) – *Multiphoton microscopy*
- 11.45 – 12.30 - Roberto PERRIS (University of Parma) – *Cell adhesion, migration and invasion assays*
- 12.30 – 14.30 - LUNCH

- Afternoon session

- 14.30 – 17.30 - *Preparation viral infection simulation assays* (Garzino Laboratory)
- *Preparation ELISPOT lymphocyte assays* (Preclinics Italia Srl)
- *Analysis Comet Assays* (Alessandra Fanelli, Elena Riva)
- *Analysis 3D cellular assays* (Lunghi Laboratory)
- 17.30 – 18.15 - *PRISM: Photon resolved image scanning microscope* (Federica Quici)

THURSDAY February 19th

- Morning session

- 09.00 – 10.30 - Alfredo GARZINO DEMO (University of Padova) - *Assays for studying viral infection in vitro*
- 10.30 – 11.00 - Coffee break
- 11.00 – 12.30 - Valentina GARRAPA (Preclinics Italia, Srl) – *Assays for studying immunological responses in vitro*
- 12.30 – 14.30 - LUNCH

- Afternoon session

- 14.30 – 17.30 - *Analysis viral infection simulation assays* (Garzino Laboratory)
- *Analysis immunological assays* (Preclinics Italia Srl)
- *Analysis cell migration/invasion assays* (Erika Boiardi, Simona Demmi)
- *Analysis molecular interactions by STORM* (Delcanale Laboratory)

FRIDAY February 20th

- Morning session

- 09.00 – 10.30 - Annamaria BUSCHINI (University of Parma) – *Cellular assays in ecotoxicology*
- 10.30 – 11.00 - Coffee break
- 11.00 – 12.30 - Roberto PERRIS (University of Parma) - *Round table and Workshop evaluation*
- 12.30 – LUNCH