

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 (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 Assay (Alessandra Fanelli, Elena Riva)
- Performance cell adhesion assay (Silvia Spanò, Graziana Tittaferante)
- Antibody internalization assay ()

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 – 12.30 - Pietro DELCANALE (University of Parma) – *Approaches of Super Resolution Microscopy*
- 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 LUNGI (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 Assay (Alessandra Fanelli, Elena Riva)
- Analysis of 3D cellular assay (Lunghi Laboratory)

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 of viral infection simulation assay (Garzino Laboratory)
- Analysis of immunological assays (Preclinics Italia Srl)
- Analysis of cell migration/invasion assays (Erika Boiardi, Simona Demmi)
- Analysis of 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
- 11.30 – 12.30 - Roberto PERRIS (University of Parma) - *Round table and Workshop evaluation*
- 12.30 – LUNCH