CIVIS Cancer and Immunology Blended Mobility Network

Virtual mobility - 5 Modules

Cytometry (mass, flow, spectral ...)
Theoretical principle of flow, spectral and mass cytometry; applications to the monitoring of immune responses in cancer patients.

Organoids
In vitro assays using new biological 3D models and examples of applications to drug screening for cancer patients.

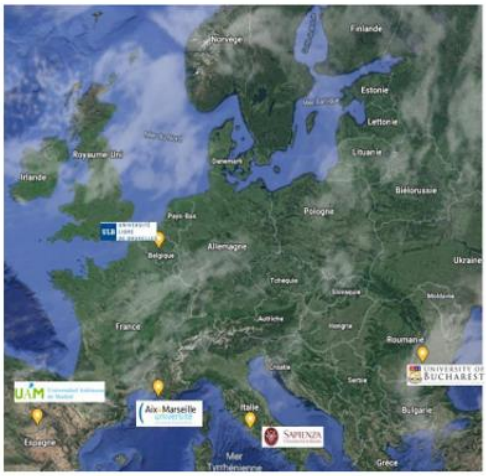
Aix*Marseille université – Initiative d'excellence
Sapienza Università di Roma
Universidad Autónoma de Madrid
Université Libre de Bruxelles
University of Bucharest

Genomics (CRISPR, RNAseq, TCRseq ...)
Dissecting molecular mechanism of immune subversion.

Proteomics
Exploration of protein modification and applications to analysis of therapeutic antibodies and biomarkers.

Microscopy-Imaging
Visualization of cell-cell interactions using cryo-electron microscopy , 3D Super-resolution microscopy and intravital microscopy.

Physical mobility - 28 Platforms



Aix-Marseille Université
- Immunomonitoring
- 3D-Hub-O Organoids
- Genomics Core Facility
- Crispr Screen Platform
- Proteomics and Mass Spectrometry
- ImagImm Photonic Platform
- TrGET

Sapienza Università di Roma
- Multicolor Flow Cytometry
- 3D organoids: iPSC-derived 3D brain
- Genomics core facility
- Proteomics and Mass Spectrometry
- Electron and 3D Illumination Microscopy
- Confocal microscopy facility

Universidad Autonoma de Madrid
- Flow cytometry
- Seahorse
- xCELLigence System
- Reverse Phase Protein Arrays
- Electron microscopy
- TIRFM
- Confocal microscopy
- In Vivo Imaging System (IVIS) facility

Université Libre de Bruxelles
- Organoids: mini-gut
- Glycomics (by MS and other techniques)
- TCR/CDR3 sequencing (bulk high-throughput and single-cell)
- Intravital imaging zebrafish model

University of Bucharest
- Immunomonitoring
- Flow Cytometry platform, Fluorescence microscope
- Real-time cell analysis system

The order of platforms per university follows that of the courses' order as in annex III.

CIVIS A European Civic University
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