**WHAT WE OFFER:** services and expertise

- Design of experiments
- Sample preparation and cell manipulation with researchers
- Panel design
- Acquisition of samples
- Cell sorting experiments
- Data Interpretation

**Area of expertise**

- Cardiovascular
- Clinical Immunology
- Regenerative medicine
- Metabolism, obesity and diabetes
- Nephrology
- Oncology
- Human reproduction

**Cell Analysis (BD FACSCanto II + BD FACSCalibur)**

- Multiparametric Immunophenotype
- Signal Transduction (PhosFlow)
- Calcium Flux
- Cell cycle, DNA/RNA content, Telomeres length
- Fluorescent in-situ hybridization (Flow-FISH)
- Cell death
- Exosomes and microvesicles detection

**Cell Sorting (BD FACSariaIII)**

- Multiparametric isolation of cells from mixed populations, stem cells, rare events
- Single-cell sorting for clonogenic assays
- Single-cell cloning of hybridoma cells for monoclonal antibodies production
- Selection of transfected cells with tags and expression markers
- Protein interaction study with FRET technique using the 561nm laser

**Standard analyses**

- T, B, NK, NKT, p/mDC, Neutrophils, Eosinophils, Basophils, monocytes, T-regs, Th1, Th2, Th17, gd cells
- Naïve, central memory, effectors cells and activation profiles
- Exhaustion: PD-1, CTLA-4, TIM3, CD57, CD38
- Apoptosis: AnnexinV/PI, JC-1
- ROS, DCFDA, MitoSOX
- Phosphorylation
- Proliferation: CFSE, Ki-67

**Available equipment**

- FACSCalibur: 405, 488, 633
- FACSCantoll: 488,633
- FACSariaIII: 405, 488, 561, 633
- GentleMACS Tissue Dissociator
- DIVA and FlowJo softwares

**CONTACT**

**Platform manager**

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**Specific analysis:** On demand


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