

# GOSSELIES CAMPUS FLOW CYTOMETRY PLATFORM

The flow cytometry platform is managed jointly by 2 faculties: the Faculty of Medicine (Institute for Medical Immunology, IMI) and the Faculty of Sciences (Institute of Molecular Biology and Medicine). This FACS core facility offers state-of-the-art equipment and high quality services, consultancy and support in project development to its clients in the frame of public or private collaborations with good quality practices.

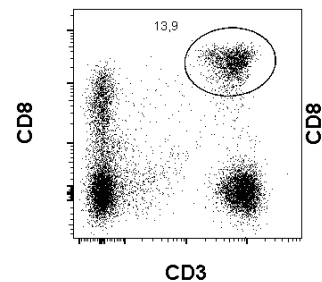
## ▷ WHAT WE OFFER



- ▶ Immunology consultancy
- ▶ Support in project development
- ▶ Multiparametric FACS analysis of up to 21 parameters
- ▶ Enrichment and cell sorting of specific cell populations
- ▶ Adapted platform for preclinical as well as clinical studies
- ▶ Gamma Irradiation Service for cells and mice
- ▶ Transcriptomic and epigenomic analysis

- ▶ Functional analysis: immunophenotyping, viability study, multiparametric analysis of cytokine, transcription factor, and phosphoprotein expression, in mice and human models
- ▶ Identification and isolation of various cell populations
- ▶ Four populations cells types simultaneous sorting in tubes
- ▶ Simultaneous sorting of 4 populations.
- ▶ Single cell sorting in plate (96 and 384 wells) for cellular and molecular analysis
- ▶ Downstream transcriptomic analysis: bulk RNA-Seq, scRNA-Seq, T cell repertoire analysis, ATAC-Seq...

## SOME APPLICATIONS ◁



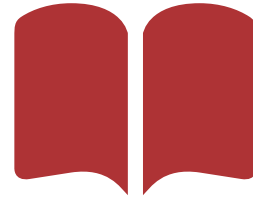
## ▷ ABOUT US



Flow cytometry is a very powerful analysis technique to define phenotypic and functional characteristics of cell populations at the single cell level. The Gosselies campus platform aims to offer an access to the latest equipment, technologies and applications in that matter. Its objective is to provide its expertise to improve trainings of the users, to increase the quality of the data generated and to promote its fast processes and technical competencies through the framework of scientific collaborations, clinical studies and services for companies in accordance with good quality practices.

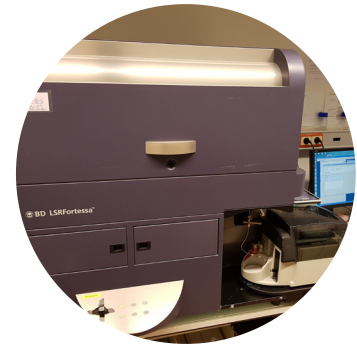
## SCIENTIFIC PUBLICATIONS

- › Ajouaou Y et al. (2022). *eLife*.
- › Brauns E et al. (2022). *JCI insight*.
- › Sánchez Sánchez G et al. (2022). *Nature communications*.
- › Köhler A et al. (2021). *Gut*.
- › Tieppo, P et al. (2020). *The Journal of Experimental Medicine*.
- › Istaces N et al. (2019). *Nature communications*.
- › Serroukh Y et al. (2018). *eLife*.



- › Cell sorters: 2 Facs Aria III®, BD- 3 lasers, 9 colors  
1 SH800®, SONY- 4 lasers, 6 colors (BL2+)
- › Cytometers: 1 LSR Fortessa®, BD - 3 lasers, 14 colors  
2 CytoFLEX LX, Beckman Coulter- 6 lasers, 21 colors  
1 CytoFLEX Beckman Coulter- 3 lasers, 11 colors
- › Chromium Controller (10X Genomics®)
- › Gamma irradiator

## MAJOR EQUIPMENTS



## CONTACT

@ [dtorres@ulb.ac.be](mailto:dtorres@ulb.ac.be)

+32 (0) 2 650 95 98



BRUSSELS  
SOUTH  
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BIOPARK



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KNOWLEDGE TRANSFER OFFICE