



BSAC

Belgian Society for Advancement of Cytometry

www.cytometry-bsac.be

NEWSLETTER Summer 2024

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REPORT MB&C 2024

On 8-9 of February 2024, the bi-annual Molecular Biology & Cytometry meeting and workshop took place in Hasselt. We are pleased to report that also this edition was a great success. With over 150 registrations, the meeting was well attended. We would like to express our gratitude to our sponsors without whom this educational and networking event would not have been possible.

The ample positive feedback on the organization and content is a great motivator for us for future editions. If you have more feedback for us, please sent it to info@cytometry-bsac.be.

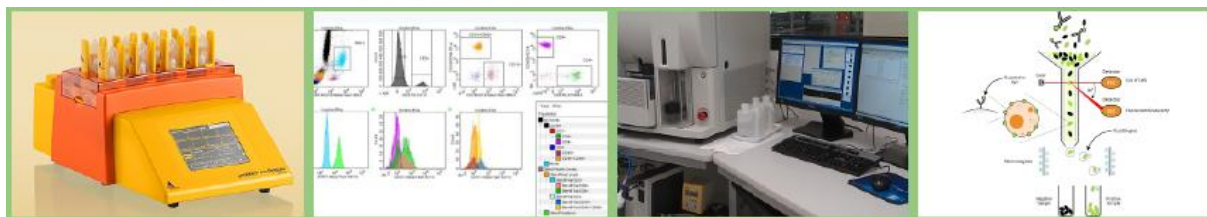
All presentations for which presenters gave consent can be found on our website. <https://cytometry-bsac.be/index.php/2022/01/19/molecular-biology-and-cytometry-course/>

Accreditation points were granted for both days.

The next MB&C event will be organized in 2026, as it alternates with the BSAC-NVC bi-annual conference on 25-26 November 2025 (see page 7).



FACILITY IN THE SPOTLIGHT



CYTOFLUX Platform - IREC Institute - UCLouvain

The CytoFlux platform has been completely renewed in 2017 by the new Research Logistician Dr. Davide Brusa who currently heads and runs the platform. Thanks to his expertise, the researchers of the Research Institute in Experimental Medicine (IREC) of the UCLouvain University are followed from the project design to the setup of the flow cytometry protocols up to the data analysis.

The IREC CytoFlux Platform consists of three analysers, two cell sorters for cell separation as well as a tissue dissociator to obtain single cell suspension before cell staining.

The CytoFlux Platform is open for external collaborations.

FACILITY IN THE SPOTLIGHT

Platform equipment:

- GentleMACS dissociator with heaters;
- FACSCalibur, analyzer, two lasers, 4 fluorescences;
- FACSCantoll, analyzer, three lasers, 8 fluorescences;
- Novocyte Quanteon, analyzer, 4 lasers, 25 fluorescences;
- FACSriaIII, cell sorter, four lasers, 16 fluorescences;
- AutoMACS, beads-based cell sorter, magnetic field;
- 2 Analysis Workstations equipped with FACSDiva, NovoExpress, FlowJo, FACSkin and R software.

BD FACSCantoll



BD FACSCalibur



Agilent Novocyte Quanteon



Miltenyi GentleMACS



Miltenyi AutoMACS



BD FACSriaIII



FACILITY IN THE SPOTLIGHT

Platform services:

- experiment design;
- sample preparation and cell manipulation with researchers;
- panel design;
- sample acquisition;
- cell-sorting experiments;
- data interpretation;
- trainings

CytoFlux Platform is located at UCLouvain Woluwé Campus, next to St. Luc Hospital at Alma metro station. Avenue Hippocrate 55, 1200 Brussels - Harvey Tower 55 - 2nd floor.

Contact: Davide Brusa (davide.brusa@uclouvain.be)

Link : <https://uclouvain.be/en/research-institutes/irec/cytoflux>

FACILITY IN THE SPOTLIGHT

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

Cell Analysis (BD FACSCanto II + BD FACSCalibur + Agilent Quanteon)

- 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

Area of expertise

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



Available equipment

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

CONTACT

Platform manager

Davide Brusa

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Specific analysis: On demand

www.uclouvain.be/en/technology-platforms/cytoflux.html

UPCOMING CONFERENCES & MEETINGS

- 2-6 Sep 2024** Flow Cytometry Course at University of York, York, UK
<https://www.rms.org.uk/rms-event-calendar/2024-events/flow-cytometry-course-2024.html>
- 25-28 Sep 2024** European Society for Clinical Cell Analysis (ESCCA), Palma De Mallorca, Spain
<https://www.escca.eu/education/escca-conferences>
- 4-8 Oct 2024** 39th International Clinical Cytometry Meeting & Course by ICCS, Seattle, WA (US), in-person & virtual
<https://www.cytometry.org/web/index.php>
- 20-23 Oct 2024** ACS Conference
<https://leishman.eventsair.com/cytometry-2024/registration>
- 21-24 Oct 2024** XI. Prague school on Flow Cytometry - virtual
https://escca.eu/images/ESCCA_Schools/Prague_School_-_Flyer_1.jpg
- 26-27 Nov 2024** Annual Dutch NVC-SKML conference at Schouwburg Odeon in Zwolle, Netherlands
<https://www.nvkc.nl/actueel/agenda/save-the-date-nvc-skml-congres>
- 17-19 Dec 2024** 27e Congrès de l'Association Française de Cytométrie (AFC) at Palais du Pharo in Marseille, France
<https://www.alphavisa.com/afc/2024/index.php>
- 25-26 Nov 2025** BSAC-NVC conference at University of Antwerp (details will follow!)

VACANCIES

Position available at **KU Leuven** “Flow Cytometry Lab Technician”

At the KU Leuven Flow and Mass Cytometry core facility, we are looking to hire a technology- and service-inclined flow cytometry lab technician to strengthen our team.

Our high-end training and service facility provides access to top-notch instrumentation encompassing all available flow cytometry and accessory technologies, several of them unique to the Belgian academic landscape. By further offering high-quality education and training to our users, unassisted operation of the cytometer, sorters and other instruments allows for their maximal flexibility.

As team member, you will receive in-depth training on all instruments and services available at the facility. Together with the facility coordinator and team members, you will contribute to user trainings, support users with advice on experiment design, assist users in instruments usage, and develop/improve and implement research techniques that contribute to the accurate completion of projects.

For more information on the required profile, responsibilities, and offer, please reach out to susan.schlenner@kuleuven.be.

BSAC Registration Form

As every year, we appreciate your membership to our society. BSAC members will get a discount for the next BSAC event in 2025, a joint meeting with the Dutch NVC partners.

Last name:

First name:

E-mail address:

Institution:

Department:

City + code:Country:

Telephone No:

RIZIV/INAMI number:

Profit full membership € 50.00

Non-profit full membership € 25.00

In training or student € 0.00 (copy of the student card mandatory)

PLEASE SEND THIS DOCUMENT TO THE SOCIETY: info@cytometry-bsac.be

Address payment to the BSAC account 001-2653141-73 (bic:gebabebb;iban:be27 0012 6531 4173. Please mention « BSAC membership 2024 » and your name on the transfer.