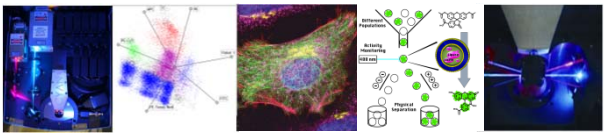
Technology Access

Radboud Flow Cytometry Centre

Your partner in Flow Cytometry



Key benefits for customer:

- Easy access to Flow Cytometry and services
- Expert knowledge and consultancy available

Our services

The Radboud Flow Cytometry Centre aims at generating output to contribute to both corporate and academic flow cytometry research:

- Flow cytometry consultancy
- Research projects
- Contract research
- Supervised instrument use
- Training

Our expertise

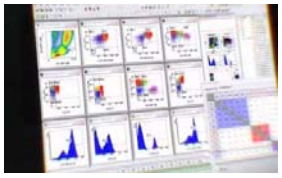
In the Radboudumc extensive experience in flow cytometry is used in basic and translational research as well as clinical practice and clinical trials.

Flow Cytometry Applications

- Immunophenotyping
- Cell sorting based on fluorescent proteins
- 4 way/populations sorting
- Multiwell single cell sort 6-384 well plates
- Nucleic acid analysis/ Cell cycle analysis
- FRET measurements
- Small particles analysis and sorting
- Cell function analysis (calcium efflux)
- Cytokines

Fields of research

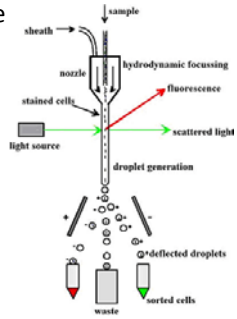
- Immunology/Hematology
- Genetic and metabolic diseases
- Cell biology
- Molecular biology
- Microbiology
- Infectious diseases
- Gynaecology (sperm)
- Biochemistry
- Chemistry (small particles)



Technology

Flow cytometry is a laser-based, biophysical technology employed in single cell analysis, biomarker detection and cell sorting, by suspending cells or particles in a stream of fluid and passing them through beam of laser lights and an electronic detection apparatus.

In our center nine flow cytometers (ranging from 5-colors up to 21-colors) and a flow sorter (18-color) are available for research purposes. The flow cytometers of the Laboratory of Hematology are located within a ML-I/II biohazard room allowing analysis and sorting of genetically modified cells. A dedicated room is available for sorting viral transduced and transfected cells with the required ML-I/II biosafety permit. The research flow cytometers are supervised by senior specialists who train, advise and supervise internal and external personnel within the facility.



Selected Publications

- Hobo et al. (2019) Comprehensive Phenotyping of T Cells Using Flow Cytometry. Cytometry A. 2019 Jun;95(6):647-654.
- Hobo et al. (2018) Increased Coexpression of PD-1, TIGIT, and KLRG-1 on Tumor-Reactive CD8+ T Cells During Relapse after Allogeneic Stem Cell Transplantation. Biol Blood Marrow Transplant. 2018 Apr;24(4):666-677.
- Dolstra et al. (2016) Addition of 10-day Decitabine to Fludarabine/TBI conditioning is feasible and induces tumor-associated antigen specific T-cell responses. Biol Blood Marrow Transplant 2016 Feb 6.
- Woestenenk et al. (2014) Enhanced cellular uptake of albumin-based lyophilisomes when functionalized with cell-penetrating peptide TAT in HeLa cells. Plos One 2014 Nov 4;9(11)
- Woestenenk et al. (2009) Sorting catalytically active polymersome nanoreactors by flow cytometry. Small 2009 May;5(10)

Contact :
Name: Willemijn Hobo
Telephone: +31 (0)24 3619840
E-mail: willemijn.hobo@radboudumc.nl
Website: www.radboudumc.nl/flowcytometry

Technology Centers
Radboudumc