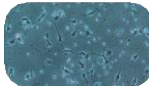


Cell culture - Services

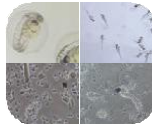
● Cortex/striatum/hippocampus neuron culture / dorsal root ganglia

- From murine embryonic neurons
- Macroscopic dissection, plating, image analysis



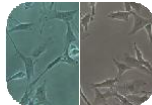
● Zebrafish cell culture

- Dechoriation
- Bilayer culture
- Culture maintenance



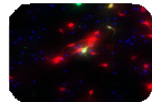
● Cell bank

- 4 cell types available:
 - NIH3T3
 - Cos7
 - HeLa
 - HEK



● Transfection / Lentiviral infection and analysis

- Transfection percentage
- Viability



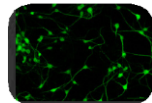
● Organoid maintenance

- Medium change
- Cell count
- Defusion



● Immunofluorescence on cells

- Antibodies of interest
- Intercalant



● Mycoplasma tests

- Contamination tests on culture supernatant based on mycoplasma activity



Cell culture - Equipment available

● Culture box

- 500 m² L2 containment platform
- 18 culture boxes (40 microbiological safety stations, 46 incubators, 9 centrifuges)
- Common area with centrifuges, water bath, scales, cell counters and microscopes
- Storage space +4 / -20 / -80 °C
- Availability of plastic consumables and biological reagents
- 2 large dissecting rooms with stereomicroscopes, dissecting hood, sterilizers, choppers and cell shakers



● GentleMacs & MultiMacs

- GentleMacs: automated tissue separator
- MultiMacs: semi-automated cell separator magnetic based on MACS microbeads and columns



● Nucleofector Amaxa

- Nucleofection of cells
- Substrate-independent transfection
- DNA / RNA / RNP / proteins



● xCELLigence

- Comprehensive overview of health, behaviour, cellular function, cell biology processes, etc. based on biosensor impedance and imaging



ICV-3C CORE FACILITY CELL CULTURE AND CYTOMETRY



Our goal: to support users.

Our expertise: project development and services, provision of equipment, training and support.

Cytometry – Services

Project development

- Welcoming and monitoring users
- Panel design
- Theoretical and experimental advice



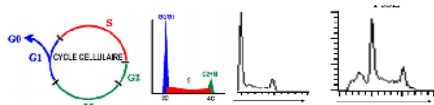
Training

- Theoretical
- Using the:
 - S3e Sorter
 - MQ10 analyser
- Analysis (FlowJo, Kaluza & Flowlogic key available)



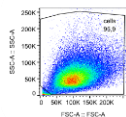
Experimental

- Types of studies:
 - Cell viability
 - Extra-, Intramembrane & Intranuclear, etc.
 - Cytokine production
 - Intracellular ion flow
 - Proliferation / Cell cycle
 - Apoptosis
- Labelling (limitation of aspecific labelling, titration, isotypes, etc.)
 - Passage & sorting of samples (nuclei, cells, etc.)



Analysis

- Data formatting
- Support



Cytometry – Equipment available

CELL SORTING

S3e Biorad

- 3 lasers (488, 561, 640 nm)
- 4 colours
- 2 sorting channels
- L2 containment

Use:
Cell/particle isolation



Moflo Astrios Beckman Coulter

- 4 lasers (405, 488, 561, 640 nm)
- 15 colours
- 6 sorting channels
- L2 containment

Use:
Cell/particle isolation



CELLULAR ANALYSIS

Attune Xenith Thermo Fischer

- Conventional & spectral
- 6 lasers (349, 405, 488, 561, 637, 781 nm)
- 51 channels

Use:
Immunophenotyping, cell cycle analysis, apoptosis, proliferation, etc.



A team of experts to meet your needs



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Scientific Manager



Lætitia STREHL
Operational Manager



Manon LAMONTAGNE
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Cell culture



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Core Facility website

