MONASH FLOWCORE - MHTP NODE

Flow Cytometry is a high speed laser based technology enabling users to generate multiparametric data about the size and shape of the proteins associated with cells or particles of interest. It is a powerful tool in many fields including immunology, stem cell science and cancer.

The MHTP Node of Monash FlowCore provides researchers access to state of the art instruments and specialist expertise through highly trained and experienced staff. The newly acquired BD ARIA and Fortessa Instruments allow flexibility and capability for deep phenotyping and polychromatic flow cytometry.

KEY TECHNOLOGIES

The MHTP FlowCore Node hosts the following instrumentation:

Cell Sorters:

BD FACSAria Fusion Cell Sorter, equipped with 5 Lasers and 18 Parameter Fluorescence Detection and housed in a Class-II biosafety cabinet can collect up to 4 unique populations simultaneously; and can additionally isolate single cells for collection

Beckman Coulter Mo-Flo XDP cell sorter, equipped with 4 lasers and 11 Parameter Fluorescence Detection. Can collect up to 4 unique populations simultaneously; and can additionally isolate single cells for collection

Cell Analysers:

■ BD LSR Fortessa X-20, equipped with 5 Lasers and 18 Parameter Fluorescence Detection

■ BD FACSCanto II cell analyser, equipped with 3 lasers and 8 Parameter Fluorescence Detection

EXPERTISE

Operating as an Node of Monash University's world class Flowcore Platform, the FlowCore - MHTP Node is led by Mr Michael Thomson who has extensive experience managing Flow Cytometry facilities and is recognised as a ISAC SRL Emerging Leader.

WORKING WITH US

- Fee for service
- Training

SPECIALIST SERVICES

Cell sorting

Cell sorting, or separation is provided as a service, where each sort is personally set up and supervised by a dedicated staff member. As a result, researchers can be confident in the pure populations of cells that are isolated for them, which they are able to use in subsequent in vitro or in vivo assay. High level sorting biocontainment available.

Flow cytometric analysis

Users are trained to run their samples on the analysis cytometers and are able to generate large amounts of data in a short time. The cytometers can be fitted with a high-throughput sampler allowing researchers to analyse samples in 96-well plates, further speeding up the analysis process.

Training

We provide training to researchers on the analysis cytometers on a regular basis. We also hold educational seminars and user group meetings which allow researchers from different fields, who are conducting flow cytometry experiments, to come together and learn about developments in the field.

Other services

- Collection of single cells in 96 and 384 well plates.
- Software for data analysis is available via site license from FlowCore
- Advice on experimental design and data analysis

Monash Flowcore - MHTP Node

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