FlowCore utilises more than 40 years of flow cytometry experience across its four full time staff to provide flow cytometry services to researchers within Monash University and the wider scientific community.

Flow cytometry is a high speed laser based technology enabling users to generate multiparametric data about the size, shape and proteins associated with their cells or particles of interest. Flow cytometry is a powerful tool in many fields including immunology, stem cell science, cancer research, aquatic biology and plant biology.
FlowCore is a dedicated laboratory which currently houses two high speed sorters and two analysers with the capacity to expand to six sorters and six analysers, making FlowCore one of the top flow cytometry facilities in Australia.

Our equipment boasts cutting-edge features such as 561nm yellow/green laser technology and Australia’s first five-laser cell sorter and seven-laser analyser, allowing unrivalled flexibility for Melbourne researchers.

**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.

**Cell sorting**

Cell sorting or separation is provided as a service in FlowCore, 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 assays.

**Data analysis**

FlowCore holds the site licence for FlowJo (Treestar), a specialised flow cytometry data analysis software. This provides researchers with access to high end software with which to dissect their acquired data.

**Education and training**

FlowCore provides free training to researchers on the analysis cytometers on a regular basis. FlowCore also holds educational seminars and Users Group Meetings which allow researchers from different fields who are conducting flow cytometry experiments to come together and learn about developments in the field.

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**Contact**

**Facility Manager**

Mr Andrew Fryga

Andrew completed his Bachelor of Applied Science (Medical Laboratory Science) in 1989, before working in various laboratories in Melbourne and London. In 1996, he joined the Bone Marrow Transplant Laboratory at the Royal Children’s Hospital, processing stems cells for transplant and running various flow cytometry based assays. Andrew moved to full time flow cytometry at the Peter MacCallum Cancer Centre in 2001. In 2005 he joined the Australian Stem Cell Centre, managing the flow cytometry facility, and now manages FlowCore.

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