

IMM Flow Cytometry Services

The Brown Foundation Institute for Molecular Medicine (IMM) Flow Cytometry Service Laboratory is located on the sixth floor of the Fayez S. Sarofim Research Building and maintains four instruments, a BD FACSAria II, a BD FACSCalibur, a Coulter FC500 and a Luminex LX200. These specialized instruments allow researchers to evaluate a large number of samples at the cellular level in a short time frame. The Flow Cytometry Service Unit is committed to the continuing development of biological research and provides training, instrumentation, technical expertise, data analysis and interpretation for many IBC approved studies.

Instrumentation

The Luminex system enables the multiplex of up to 100 analytes in a single microplate well, using very small sample volumes. The system delivers fast and cost-effective bioassay results.

The BD FACSCalibur provides user-friendly multicolor analysis capabilities. It is a six parameter instrument equipped with 488nm and 635nm lasers, capable of detecting up to four fluorescent signals.

The Coulter FC500 is capable of detecting five fluorescent signals and provides a 32 tube carousel for automated sample acquisition.

The BD FACSAriaII is a state-of-the-art 19 parameter instrument equipped with six fiber-optic-linked solid-state lasers, a 355nm UV laser, a 488nm Blue laser, a 561nm Yellow-Green laser, a 640nm Red laser, a 405nm Violet laser, and a highly specialized 785nm Near-Infrared laser, capable of detecting up to 17 fluorescent signals. The AriaII can perform two and four way bulk sorting for a variety of tube sizes as well as automatic cell deposition for single cell sorting into multiwell plates or onto microscope slides. The 785nm laser is the only one in the Texas Medical Center, and one of only 4 in the United States. Excitation in this range of the light spectrum allows for the unique usage of near infrared fluorescent probes with minimal autofluorescence.

Rates for UTHealth Investigators

Luminex	\$50 /use
Calibur (Up to 4 color analysis)	\$50 /hour
FC 500 (Up to 5 color analysis)	\$50 /hour
Aria II (Unassisted)	\$100 /hour
Aria II (Assisted)	\$125 /hour

Services are also available to users outside of UTHealth.
Please call for pricing.

The Brown Foundation Institute of Molecular Medicine
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Fayez S. Sarofim Research Building



BD FACSAria II

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