

FACILITIES AND RESOURCES – Flow Cytometry and Immune Monitoring Core (FCIM)

Laboratory: The USC Flow Cytometry and Immune Monitoring Core (established in 2007) is located at Room 3514 in the Harlyne Norris Research Tower building located on the Health Science Campus.

Features: FCIM is comprised of approximately 200 ft² working space (NRT 3514, 4 benches and 8 desks), 100 ft² BLS2+-certified tissue culture room (NRT 3514C) accommodating one Class II Biological Safety Cabinet, one in-lined CO₂ incubators for cell culture, refrigerator and freezers (–20°C, –80°C and liquid nitrogen).

Security for the building includes key-card access only. Internal doors are locked when laboratories are unattended.

Computer: The laboratory has a total of 4 computers which affords ready internet access and connection to the USC Medical Center mainframe computer facility, networked drives and secured and backed-up server systems. Network communications with e-mail and data transfer are in place. Also available are 1 scanner, 2 printers, 1 fax machine. Access to a photocopier on the same floor. Researchers have access to any software needed to execute their research. All networked computers have unlimited access to online journals and medical databases through the USC Norris medical library and institutional subscriptions. Computer systems are supported by the Keck School of Medicine Information Technology department with appropriate firewall and anti-virus software.

Equipment

Equipment for core services

- Class II biological safety cabinets
- CO₂ incubators
- Eppendorf 5810R Centrifuge
- ThermoFisher Sorvall ST40R Centrifuge
- Plate shaker
- Water bath with digital shaker
- Refrigerators
- Temperature-monitored freezers (–20°C, –80°C and liquid nitrogen)

Shared equipment

- Bio-Rad Bio-Plex 200 Luminex system
- BMG ClarioSTAR Plus multifunction plate reader
- BD Symphony A5 SE flow cytometer with high-throughput sample loader
- Beckman ultracentrifuges and rotors
- Cytek Aurora flow cytometer with high-throughput sample loader and Enhanced Small Particle (ESP) detection
- ThermoFisher ProFlex PCR system
- ThermoFisher Countess III Automated Cell Counter