

FACILITIES & OTHER RESOURCES

The Immune Assessment Core (IAC) is located in the Rehab Building adjacent to the Immunogenetics Center and occupies 1500 SF space including state-of-the-art equipment and tissue culture facilities. The IAC is directed by Dr. Maura Rossetti, with over 8 years of experience in translational research and 2 years in diagnostic laboratory services. A unique attribute of the IAC is that it is the only research service core which provides expert technical services in immune assessment for the UCLA research community. Under the expert leadership of Dr. Rossetti, the core laboratory provides standardized multiplex cytokine and chemokine luminex testing, multi-parameter (14-color) immunophenotyping, KIR typing and functional assay development in a CLIA-certified environment. The expert faculty and technical staff (1 Staff Research Associate and 2 Clinical Laboratory Scientists) have long-standing expertise, insights and publications, including collaborative publications, in immunology and immune assessment. For more information, please see <http://pathology.ucla.edu/iac>.

Offices:

Dr. Maura Rossetti has designated office space within the Immunogenetics Center. The Department of Pathology provides administrative support such as grant finance and administration, purchasing, payroll, information technology, staff and academic personnel and facilities.

Databases and Computers:

All laboratory members have their own computer in the laboratory with Ethernet connection. The following software programs are available for data generation and analysis including R, FlowJo v10, Treestar, Ashland OR (for flow analysis) Prism v6, GraphPad, San Diego CA (for data analysis, graph making) Illustrator CS5, Adobe, San Jose CA (for figure making) NIS Elements Viewer (Nikon), CellProfiler (MIT) and ImageJ.

EQUIPMENT

Immune Assessment Laboratory

The Immune Assessment Core is BSL2 certified and fully equipped for tissue culture, molecular and cellular immunology. Equipment includes: low and high speed centrifuges and phase contrast microscopes, LSRFortessa™ flow cytometer, cell analyzer FACSCalibur Flow Cytometer, (2) FDA-approved FACScanto II, Luminex 200 system, Luminex FlexMap 3D, SpectraMax plate reader, and (2) Acea Xcelligence systems (RTCA DP and RTCA MP). The Core also shares with the UCLA Immunogenetics Center a Qiagen® BioRobot Universal System, LABXpress™ Automation System, i-Pipette-pro, Qiagen EZ, Qiagen QiaCube, Applied Biosystems 3130xl and 3730xl Genetic Analyzers, miSeq Sequencing Platform, ABI PRISM 7700 real time PCR system, Applied Biosystems immunoblotting apparatus, several PCR instruments, fluorescent and spectrophotometric Biotek microplate reader, laminar flow biosafety cabinets, CO2 Incubators, dry incubators, water baths, dry baths/heating block, sonicator, and a Nanodrop spectrophotometer. Adjacent common rooms of the UCLA Immunogenetics Center include core labs for imaging, cryostorage and glassware preparation.

Computers and Software

The UCLA School of Medicine and the Department of Pathology has an Information Technology (IT) group that provides IT support. Computer resources include Dell PC units, with local printers, scanner, equipment networking, and university backbone networking for UCLA Biology VAX and internet accessed database and analysis centers. Dell computer workstations in the Immunogenetics Center and Immune Assessment Core Laboratory are security encrypted with Ethernet connection for accessing data on two shared network servers.

Dell computer workstations are security encrypted with Ethernet connection for accessing data on two shared network servers. Available software for word processing and data analysis include Microsoft Office (Word, Excel, PowerPoint, etc.). The following software programs are available for data generation and analysis including R, FlowJo v10, Treestar, Ashland OR (for flow analysis) Prism v6, GraphPad, San Diego CA (for data analysis, graph making) Illustrator CS5, Adobe, San Jose CA (for figure making) NIS Elements Viewer (Nikon), CellProfiler (MIT) and ImageJ.