

Technology Group	Equipment
Flow Cytometry	<p>SONY SH800 cell sorter (https://www.sonybiotechnology.com/us/instruments/sh800s-cell-sorter/applications/) with the capacity to sort different cell sizes using microfluidics sorting chips. The sorter is equipped with 488nm/638nm/408nm lasers.</p> <p>SONY SA3800 Spectral analyzer (https://www.sonybiotechnology.com/us/instruments/sa3800-spectral-analyzer/sample-data/). The instrument is equipped with 488nm, 405nm and 638nm lasers. The spectral unmixing technology allows for the efficient separation of spectra from different fluorochromes. As set up, 10 color phenotyping can be accomplished from a single experiment.</p>
Genomics/ Genetics Analysis	<p>MiSeq® System integrated sequencing system (https://www.illumina.com/systems/sequencing-platforms/miseq/order-miseq.html).</p> <p>Bio-Rad CFX96 Touch Real-Time PCR Detection System: quantitative real-time PCR machine with direct-to-paper data output (https://www.bio-rad.com/en-us/sku/12011319-cfx-opus-96-real-time-pcr-instrument?ID=12011319&WT.mc_id=200909029011&WT.srch=1&WT.knsh_id=96e89014-874a-479d-aac4-9bae56f0edc1&gclid=Cj0KCQiAx9mABhD0ARIsAEfpavTXLPtIPJrkU46aXVWsXO6QKrMi3QBIGSNwAiV7zKIVL7wmzgbSSycaAkF6EALw_wcB)</p> <p>QuantStudio™ 6 Flex Real-Time PCR System, 384-well, laptop (https://www.thermofisher.com/order/catalog/product/4485691?us&en#/4485691?us&en)</p>

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Biological Assays Technologies	<p>Bio-Tek Synergy H1MF (https://www.biotek.com/products/detection-hybrid-technology-multi-mode-microplate-readers/synergy-h1-hybrid-multi-mode-reader/), a hybrid multimode microplate reader with top and bottom fluorescence intensity, UV-visible absorbance, luminescence, fluorescence polarization, TRF & TR-FRET detection.</p> <p>Luminex MAGPIX® System (https://www.luminexcorp.com/magpix-system/#overview), instrumentation for multiplex ELISAs using microbead technology.</p> <p>ProteinSimple Wes (https://www.proteinsimple.com/wes.html) immunoblotting equipment capable of multiplexed experiments. Analytes can be detected at high sensitivity and provides quantitative data of protein levels.</p> <p>GE Amersham 680R gel imaging system for DNA and protein gels capable of chemiluminescence and fluorescence in Western blots.</p>
Biomedical Imaging	<p>Nikon 90i and TE2000-S fluorescence microscopes that include new optics, digital cameras and software.</p>
Tissue and Cellular Physiology Measurements	<p>Myocyte Calcium and Contractility System (https://www.ionoptix.com/products/systems/calcium-and-contractility-system/)</p>
Nanomaterials Research	<p>Zetasizer Nano instrument for characterization of nanomaterials such as size, aggregation and charge. (https://www.malvernpanalytical.com/en/products/product-range/zetasizer-range)</p>
Molecular Separations and Identification	<p>NGC Quest 10 Chromatography System (https://www.bio-rad.com/en-us/sku/7880001-ngc-quest-10-chromatography-system?ID=7880001)</p>

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	<p>Agilent 6546 Q-TOF LC/MS System with Agilent Jet Stream source, oil foreline pump, bundled PC, monitor, MassHunter software suite (https://www.agilent.com/en/product/liquid-chromatography-mass-spectrometry-lc-ms/lc-ms-instruments/quadrupole-time-of-flight-lc-ms/6546-lc-q-tof?gclid=Cj0KCQiAx9mABhD0ARIsAEfpavS5b0uQgBB4b3K4L3fKfLti0cMsNQyTI3-RepOaP3UGOr-NkUkD7xsaAigPEALw_wcB&gclid=aw.ds)</p> <p>Agilent 7800 ICP-MS (https://www.agilent.com/en/product/atomic-spectroscopy/inductively-coupled-plasma-mass-spectrometry-icp-ms/icp-ms-instruments/7800-icp-ms)</p>
Tissue Preparation/ Histology	<p>Pelco Pella BioWavePro Microwave System: rapid processing of thin tissue sections for histological analysis (allows two to three assays per day) (https://www.tedpella.com/microwave_html/pelco-biowave-pro-plus-microwave-system.htm)</p> <p>PELCO SteadyTemp™ Pro Solid State Chiller with Digital Control (https://www.tedpella.com/microwave_html/SteadyTemp.htm)</p> <p>Leica CM1860 cryostat (https://www.leicabiosystems.com/histology-equipment/cryostats/leica-cm1860/)</p>