

General information regarding use of shared equipment: The First time an individual uses any of these shared equipment items, the person listed as the contact person for that item must instruct the new user in proper use of the item and observe them using it at least once to be sure it is used properly. The contact person is also responsible for arranging for or performing preventive maintenance and scheduling the use of the instrument (if needed).

If there is a sign-up sheet or user log, users **MUST** sign it. Failure to do so can result in being banned from using the instrument. Users will not be in trouble if an instrument malfunctions while they are using it (unless the malfunction was caused by purposefully or repeatedly ignoring instructions for proper use). The user will be in trouble if an instrument malfunctions or runs out of a consumable and the user does not report it as soon as possible to the contact person! Also, please remember that everyone is empowered to tell anyone who is improperly using an instrument to stop, even if the improper user is a Professor and the one who notices the improper use is a first year graduate student!

Contact People for Equipment in Basic Sciences

Shared Equipment

- Bio-Rad Chemi-Doc - [Sephala Dhital](#)
- Centrifuges for many purposes. From refrigerated microcentrifuges to Superspeed models for 250 ml samples and everything in between. The two shared centrifuges are superspeed refrigerated models in the Freezer room on 2A.- [Michelle Banes](#)
- Flow Cytometry Center has 2 flow cytometers for sample analysis or high speed cell sorting. This is by appointment only. [Wei Tan](#)
- Plate readers for both UV and visible light. These are available in several labs and the contact person is in those labs.
- Fluorescent Nanodrop to measure DNA, RNA or protein concentration, r2211 - [Shirley Guo Ross](#)
- Regular Nanodrop to measure DNA, RNA, r2219 - [Sam Borazjani](#)
- Environmental shakers for bacterial cultures (37C) and (30C) - [Michelle Banes](#)
- Sonic Dismembrator - [Michelle Banes](#)
- Beckman-Coulter cell counter (3A) - [Wei Tan](#) or [Sephala Dhital](#)
- and BioRad Cell Counter (in r2219) - [Evangel Kummari](#)
- AKTA Flux and AKTA Pure for concentration or purification of macromolecules - [Michelle Banes](#) ([AKTA Flux](#)), [Jamie Rutter](#) ([AKTA Pure](#))
- MP Bio Fast Prep homogenizer for RNA isolation - [Dr. Joo Yoon Park](#) (Seo Lab)
- Cytation 5 Cell Imaging Multi-Mode Reader-Shack (Nanduri Lab)
- Film Developer (r2224)- [Sam Borazjani](#)
- Molecular Devices M5 multi-mode plate reader (UV-Vis, fluorescent, luminescent)-[Sam Borazjani](#)

- MWG Operon Simple Seq DNA sequencing program-[Michelle Banes](#)
- Autoclaves for Sterilization of glassware and for decon of biohazards - [Suzette Johnson](#) and [Michelle Banes](#)
- Dishwasher and baking dryer - [Suzette Johnson](#) and [Michelle Banes](#)
- Lyophilizer for freeze-drying samples - [Chun Kai](#)
- French Press-for lysing large numbers of bacterial cells - [Dr. Yoon](#) (Seo lab)
- Vacuum centrifuge for removing solvents from RNA/DNA preps (1A)- [Lori Ford](#)
- Shared computer in r1106 with Flo-Jo software for Flow cytometry analysis, Cytation 5 software for image and plate reader analysis from the Cytation plate reader, and Scaffold software for Proteomics Analysis - [John Stokes](#) (for overall use of computer and storage on server) and [Aswethy Rai](#) (Scaffold software)
- Stratagene PCR Machine - [John Stokes](#)
- Luminex multiplexed bead array reader for assay of multiple proteins from each sample and Milliplex Analyst Software - [Wei Tan](#)
- Fluorescence microscopes (regular and inverted with photography capabilities) - [Shirley Guo Ross](#) and [Lori Ford](#)
- Ultralow freezers (-150 and -142) on 1A of Research Wing - [Allen Shack](#), [Lori Ford](#), Note: [Toni Roberson](#) has the key, but do not remove or place new samples or boxes without checking with [Lori](#) or [Allen](#), because they keep a logbook showing location of all samples.
- Ultracentrifuge - Centrifuge room on 3A - [Eddie Meek](#)-Please note: Users must see [Eddie](#) before using this instrument; improper use can be very dangerous to the instrument and the user!
- Dry ice makers-one on 1A and one on 3A-[Michelle Banes](#) and [Eddie Meek](#), respectively. Note: The use of the ice maker is available, but you must arrange to replace all carbon dioxide you use. This is a special carbon dioxide tank with a siphon tube, so if you order it make sure to get the correct type. Probably it is best to just give [Michelle](#) or [Eddie](#) an account number to use when they re-order.
- Liquid nitrogen-[Lori Ford](#), [Allen Shack](#), and [Eddie Meek](#). You must have a properly insulated container into which they dispense some liquid nitrogen for you.

Equipment that is not formally shared, but may be available on request or by collaboration

- HPLC with electrochemical, UV, and mass spectrometer detection - [Chambers lab](#), [Ross lab](#), [Eells lab](#)
- Gas chromatography - [Eddie Meek](#)
- Cell harvester for radioisotope work - [Dr. Nogi Park](#) (Seo lab)
- ABI Quantitative (real time) PCR machine - [Dr. Joo Yoon Park](#) (Seo lab)
- Radioactive procedures and storage room (3rd floor, research wing)-[Mary Beth Dail](#)

Major equipment at other locations on campus

- Confocal and atomic force microscopy- Institute for Imaging and Analytical Technologies-[Dr. Giselle Thibaudeau \(Munn\)](#) is the Director of the Institute and best initial contact person
- X-ray crystallography - Institute for Imaging and Analytical Technologies

- 3T-MRI (functional MRI) - Institute for Imaging and Analytical Technologies
- Transmission and Scanning Electron Microscopy - Institute for Imaging and Analytical Technologies
- Histology and Pathology analysis of tissue sections (CVM pathology) - Dr. Epperson
- Clinical Chemistry in most species (CVM Clinical Lab) - Dr. Epperson