

Instrument Name	Applications	Campus/Building	Key Faculty Contact
MALDI Micro TOF MS System		Arkansas State University, Arkansas Biosciences Institute	Brett Savary
Scanalyzer HTS, LemnaTec, Germany	High throughput phenotyping	Arkansas State University, Arkansas Biosciences Institute	Argelia Lorence
Spectrum HPLCC, Dynamic Extractions	Purification of small molecules (analytical to semi-preparative scale)	Arkansas State University, Arkansas Biosciences Institute	Fabricio Medina-Bolivar
CAMAG TLC Scanner 3	Qualitative and semi-quantitative analysis of small molecules	Arkansas State University, Arkansas Biosciences Institute	Fabricio Medina-Bolivar
Chromatron	Purification of small molecules	Arkansas State University, Arkansas Biosciences Institute	Fabricio Medina-Bolivar
Varian Gas Chromatograph/Triple Quadropole Mass Spectrometer	Metabolomics, FAMES, Volatiles, SPME, Headspace	University of Arkansas, Fayetteville, Mass Spec Facility	Jack Lay
Shimadzu Triple Quadropole LC/MS/MS	Metabolomics, Proteomics, peptide identification	University of Arkansas, Fayetteville, Mass Spec Facility	Jack Lay
Storm Phosphorimager	Large format imaging system for radioactive or fluorescently labeled samples	University of Arkansas, Fayetteville	Ken Korth
Adaptis Growth Chamber	Plant growth and maintenance	University of Arkansas, Fayetteville	Ken Korth
Innova 44 Shaker/Incubators	Large capacity shaker/incubators for cell culture in test tubes or in flasks up to 5L. Growth lights also available for axenic growth of plant tissue.	University of Arkansas, Fayetteville	Ken Korth
Real-time PCR system	High-throughput real-time PCR supporting SYBR® Green dye and TaqMan® probes, and possibly other chemistries	University of Arkansas, Fayetteville	Ken Korth
Nikon Eclipse 90i Microscope	Upright scanning laser confocal microscope with scanning lasers at 405/488/561/640 nm	University of Arkansas, Fayetteville	Ken Korth
Centrifugal Partitioning Chromatography	Separations of phytochemicals and carbohydrates	University of Arkansas, Fayetteville	Julie Carrier
ICS-5000 Reagent Free Ion Chromatography System	Detects compounds separated by the ion chromatography column (Carbopac) in the ICS-5000 system	University of Arkansas, Fayetteville	Julie Carrier
Li6400 Portable Photosynthesis System	Measures leaf fluorescence, photosynthetic rate, and gas exchange	University of Arkansas, Fayetteville	Ken Korth
Mettler-Toledo XS3DU Micro analytical balance	Able to make precise weight measurements; at 800 mg fine range it has a 1 µg readability	University of Arkansas, Fayetteville	Fiona Goggin
Sorvall Lynx 4000 Centrifuge	General microbiology, cell fractionation	University of Arkansas, Little Rock, SCLB	Stephen Grace and Lirong Zeng
Licor LI-6400XT Portable Photosynthesis System	Photosynthesis; light and CO2 response curves	University of Arkansas, Little Rock, SCLB	Stephen Grace
Walz Mini-PAM Fluorometer	Photosynthetic efficiency, quenching analysis	University of Arkansas, Little Rock, SCLB	Stephen Grace
Thermo SpectraSystem HPLC-PDA System	Small molecule analysis	University of Arkansas, Little Rock, SCLB	Stephen Grace
Biotek Microquant Plate Reader	Protein analysis, colorimetry	University of Arkansas, Little Rock, SCLB	Stephen Grace
Conviron PGR15 Plant Growth Chamber (5)	Controlled environment plant cultivation	University of Arkansas, Little Rock, SCLB (4) and ETAS (1)	Elise Ross
BioRad GelDoc XR System	DNA and Protein Gel Imaging	University of Arkansas, Little Rock, ETAS	Mariya Khodakovskaya
BioRad CFX96 Real-Time PCR System	Gene expression analysis	University of Arkansas, Little Rock, ETAS	Mariya Khodakovskaya
Labconco Freezone Benchtop Freeze Dryer	Sample Lyophilization	University of Arkansas, Little Rock, SCLB	Stephen Grace
Thermo Scientific Nanodrop 2000C	Nucleic Acid Quantification	University of Arkansas, Pine Bluff	Muthusamy Manoharan
Life Technologies StepOne Real-Time PCR System	Gene expression analyses	University of Arkansas, Pine Bluff	Muthusamy Manoharan