



SHIMADZU INSTITUTE FOR RESEARCH TECHNOLOGIES

THE UNIVERSITY OF TEXAS AT ARLINGTON

SIRT INSTRUMENT GUIDE

Shimadzu Center for Advanced Analytical Chemistry

Instrument Description

LCMS-8080		High Performance Liquid Chromatograph-Mass Spectrometer (Triple Quadrupole)
LCMS-8040		HPLC-MS (Triple Quadrupole)
LCMS-IT-TOF		HPLC-Ion-Trap/Time-of-Flight Mass Spectrometer
LCMS-2020		HPLC-MS (Single Quadrupole)
Perfinity	LCMS-8040	Automated Protein Digestion/Separation with Mass Spectrometer
GCMS-TQ8030	with Headspace	Gas Chromatograph-Triple Quadrupole-Mass Spectrometer with Headspace Sampler
GCMS-QP2010 Ultra		Gas Chromatograph-Single Quadrupole-Mass Spectrometer
GC-FID	with Headspace	GC-Flame Ionization Detector with Headspace Sampler
MALDI-7090		Matrix Assisted Laser Desorption/Ionization-TOF-Mass Spectrometer
Axima MegaTOF	MALDI-TOF-MS	MALDI Time-of-Flight Mass Spectrometer with high mass (up to 1,500,000 Da) capabilities
Axima Resonance	MALDI-IT-TOF	MALDI Ion-Trap/Time-of-Flight Mass Spectrometer
Axima Performance	MALDI-TOF-TOF	MALDI Time-of-Flight/Time-of-Flight Mass Spectrometer
Accuspot		Automated HPLC (GPC) and MALDI plate spotting
ChIP-1000	Use with MALDI-MS Imaging	Chemical Ink Jet Printer
ICPE-9000		Inductively Coupled Plasma-Optical Emission Spectrophotometer
TOC-L	with TNM-L	Total Carbon/Total Nitrogen Analyzer
RF-5301		Spectrofluorophotometer
UV-1800		UV-Vis Spectrophotometer

Center for Bio-Molecular Imaging

Date Available

PPSQ-33A	Protein Sequencer	Fall 2013
RF-5301	Spectrofluorophotometer	Fall 2013
UV-3600	UV-VIS-NIR Spectrophotometer	Fall 2013
BioSpec-mini	UV-Vis Spectrophotometer	Fall 2013
BioSpec-nano	UV-Vis Spectrophotometer	Fall 2013
Moisture Balances (MOC63U)	Moisture Analyzer/Balance (2)	Fall 2013
Perfinity / LCMS-8040	Automated Protein Digestion/Separation with Mass Spectrometer	Summer 2014
MALDI for Microorganism ID	Microorganism Identification by MALDI-TOF	Summer 2014
Nexera / LCMS-8040	HPLC-Triple Quadrupole-Mass Spectrometer	Summer 2014

Shimadzu Brain-Imaging Center[LABNIRS](#)Functional Near-Infrared Spectroscopy System
for Brain Imaging

Fall 2014

Mobile Imaging[HPV-X Camera](#)

High Speed Video Camera

Spring 2014

Shimadzu Small Animal Imaging[CT-100](#)

Microfocus X-Ray CT System

Fall 2014

Center for Human Genomics**Date Available**[Qiacube](#)

Qiagen

Automated DNA/RNA
extraction and cleanup

Fall 2013

[Biomek 3000](#)

Beckman Coulter

Automated Laboratory Workstation

Fall 2013

[1575 Immunowash](#)

BioRad

Automated Washing and Processing
of Microplates

Fall 2013

[Pyromark MD](#)

Qiagen

"Analysis of DNA Methylation,
detection of mutations and SNPs"

Fall 2013

[Pyromark Q96 Vacuum](#)

Qiagen

Preparation Station for Pyromark MD

Fall 2013

[GeneAmp 9700](#)

Applied Biosystems

Polymerase Chain Reaction
DNA Amplification

Fall 2013

[RT-PCR 7500](#)

Applied Biosystems

Reverse Transcription Polymerase
Chain Reaction Amplification

Fall 2013

CEQ 8000

Beckman Coulter

Genetic Analyzer/DNA Sequencing

Fall 2013

[680 Microplate Reader](#)

BioRad

UV-NIR Microplate Reader

Fall 2013

iCycler w/384-well module

BioRad

Polymerase Chain Reaction
DNA Amplification

Fall 2013

[ND-1000 Spectrometer](#)

NanoDrop

UV-NIR spectrophotometer for
DNA/RNA/Protein

Fall 2013

[TissueRuptor](#)

Qiagen

Tissue Homogenizer

Fall 2013

Thermomixer

Eppendorf

Fall 2013

[Alphamager EC](#)

Cell Biosciences

Gel Imaging and Documentation
Instrument

Fall 2013

Allegra 25R

Beckman Coulter

Refrigerated Centrifuge

Fall 2013

Center for Environmental, Forensics and Material Science**Date Available**[EPMA](#)

Electron Probe Microanalyzer

Fall 2014

[ICPE-9000](#)Inductively Coupled Plasma-Optical Emission
Spectrophotometer

Spring 2014

[AA-7000 Flame/GFA](#)

Atomic Absorption Spectrophotometer

Spring 2014

[XRF-1800](#)Sequential Wavelength Dispersive X-Ray
Fluorescence Spectrometer

Spring 2014

[EDX-720](#)

Energy Dispersive X-Ray Fluorescence Spectrometer

Spring 2014

[XRD-7000](#)

X-ray Diffractometer

Spring 2014

[IG-1000](#)

Induced Grating Method Single Nano Particle Size Analyzer

Spring 2014

[SALD-7101](#)

Nano Particle Size Analyzer

Spring 2014

[TOC-Vw](#)

Total Organic Carbon Analyzer

Spring 2014

[IR-Prestige with AIM](#)Fourier Transform Infrared Spectrophotometer
with Infrared Microscope

Spring 2014

[UV-3600](#)

UV-Vis-NIR Spectrophotometer

Spring 2014