2017 Chemistry Department - Chemical Instrumentation List

Padnos Hall, Allendale campus

**Gas Chromatography**

- Thermo Electron Focus DSQ with GC
  - AI 3000 autosampler; EI source; quadrupole detector.
  - Data station utilizing Xcalibur
- Thermo Electron Focus DSQ with GC
  - AS 3000 autosampler; EI and CI source; quadrupole detector.
  - Data station utilizing Xcalibur
- Thermo Trace 1310 GC
  - AS 1310 105 position autosampler; electron capture detector
  - Data station utilizing Chromeleon
- Thermo Focus GC
  - AI 3000 8 position autosampler; flame ionization detector
  - Data station utilizing Chromeleon
- Thermo Focus GC
  - AS 3000 105 position autosampler; thermal conductivity detector
  - Data station utilizing Chromeleon
- Hewlett Packard HP-5890 with HP7673 autosampler and flame ionization detector
- 7 Gow Mac GCs (Series 350, 400, 580) with thermal conductivity detectors

**High Pressure Liquid Chromatography**

- Thermo Dionex UltiMate 3000 uHPLC+ Focused
  - UltiMate 3000 auto-sampler, column oven, variable UV detector
  - Data station utilizing Chromeleon
- Agilent 1100 Series HPLC with quaternary pump, degasser, autosampler, variable wavelength detector, refractive index detector and Chemstation Data System
- 4 Hitachi HPLC systems (L6000 and L7000 series)
  - UV-vis variable wavelength detectors; refractive index detectors; autosamplers
  - Set-up for reversed and normal phases along with chiral and GPC columns
- Thermo Dionex ICS-1100 Ion Chromatography System
  - Dionex AS-DV 50 position autosampler
  - Data station utilizing Chromeleon

**Capillary Electrophoresis**

- Beckman P/ACE MDQ Capillary Electrophoresis
  - UV-Vis photodiode array detection
  - Data station utilizing Beckman 32Karat

**Cook-DeVos Center for Health Sciences (Grand Rapids, MI)**

- Agilent 1220 Infinity II HPLC system with variable UV and fluorescence detection
- Sorvall RC5C Plus high speed centrifuge (2)
- Sorvall Discovery 90SE ultracentrifuge
- Eppendorf gradient PCR thermocyclers (3)
- Eppendorf refrigerated micro-centrifuges (2)
- Mini-protean III SDS PAGE/Western blot apparatus (12)
- Bio-Rad Biologic Low-Pressure Chromatography System for protein purification
Clinical centrifuges—swinging bucket (8)
Eppendorf microfuge (13)
Eppendorf speed-vac (2)