

## 2017 Chemistry Department –Chemical Instrumentation List

### Padnos Hall, Allendale campus

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#### **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)

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- 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)