

## Instrumentation in Chemistry Department of WMU

<b>Instrument</b>	<b>Make / Model</b>
<b>X-RAY</b>	Nonius Cad 4 X-ray Diffraction
<b>NMR</b>	Jeol JNM-ECP400
	Varian INOVA 500MHz (Esperion, Inc.)
<b>ESR(EPR)</b>	Jeol JES-TE100 ESR
<b>ICP-MS</b>	VG Elemental PQ ExCell ICP-MS
<b>FTIR</b>	Bruker Equinox 55 FTIR
	Perkin Elmer 1710 FTIR <sup>¶d</sup>
	Nicolet 5DXC FTIR *
	Mattson Satellite FTIR *
<b>Luminescence</b>	PE LS-50B Luminescence spectrometer *
<b>Fluorescence</b>	Varian Eclipse Fluorometer, plate reader <sup>¶c</sup>
	BMG Polarstar fluor. microplate reader <sup>¶c</sup>
<b>UV/VIS</b>	PE Lambda 20 UV/VIS spectrometer *
	Cary-14 UV/VIS spectrophotometer
	DU530 UV/VIS Life Science Spectrometer *
	Agilent HP5443 diode array system <sup>¶a</sup>
	HP 8452A diode array (only 200-500 nm) <sup>¶c</sup>
	Mol. Devices SpectraMax 384 plate reader <sup>¶c</sup>
<b>GC-MS</b>	HP5973MSD/HP6890 Series GC System*
<b>GC</b>	HP6890 GC System *
	Shimadzu GC-17A Ver. 3 System *
	Shimadzu GC-17A Ver. 3 System *
<b>HPLC</b>	Waters HPLC system *
	Perkin-Elmer system <sup>¶a</sup>
	Agilent system with auto sampler <sup>¶a</sup>
	Waters 600 E HPLC system(needs repairs) <sup>¶c</sup>
<b>Electrochemistry</b>	Electrochemical Analyzer DLK-60 *
	Electrochemical Workstation (CH Instruments / CHI660B) <sup>¶b</sup>
<b>CE</b>	Beckman PACE MDQ system <sup>¶a</sup>

<b>Micromachining</b>	JPSA-WMU built; excimer laser <sup>¶a</sup>
<b>Particle size</b>	Beckman-Coulter system <sup>¶a</sup>
<b>Liquid Disp.</b>	CCS Packard PlateTrak pipet workstation <sup>¶c</sup>
	MultiDrop 384 microplate liquid disp. <sup>¶c</sup>

\* Primarily for teaching use only.

<sup>¶a</sup> Subra Murali's nanotechnology labs

<sup>¶b</sup> Dongil Lee's research lab

<sup>¶c</sup> Brian Tripp's High Throughput Screening Training and Research Facility

<sup>¶d</sup> Marc Perkovic