

Bruker DRX 500 MHz NMR Spectrometer

- Originally Victor Hruby group Bruker AM-500 (1980's), then NMR Facility
- 1997 NSF Biological Multi-User Grant Proposal (Campus-Wide): Cusanovich, Hruby, Walker, Gervay, Timmerman, Polt, O'Brien

NewConsole, Computer, Shim Stack \$330K

Installed in 1999

- Two-Bay Console
 - Three RF Channels (e.g., ^1H , ^{13}C , ^{15}N)
 - Gradients on 3 axes (x, y and z)
 - Shaped (Selective) Pulses
 - Oversampling and Digital Filtering
- Software: XWinNMR
- Two 3-axis Gradient Probes: “**n3**” (^1H detect + ^{13}C and ^{15}N); “**nbb**” (^1H detect + X tuneable)
- SGI UNIX computer with: Mouse! Internet! Big Disk!
- Continuous Control of Sample Temperature: Air Dryer and Air Chiller