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
  o Three RF Channels (e.g., $^1$H, $^{13}$C, $^{15}$N)
  o Gradients on 3 axes (x, y and z)
  o Shaped (Selective) Pulses
  o Oversampling and Digital Filtering

• Software: XWinNMR

• Two 3-axis Gradient Probes: “n3” ($^1$H detect + $^{13}$C and $^{15}$N); “nbb” ($^1$H detect + X tuneable)

• SGI UNIX computer with: Mouse! Internet! Big Disk!

• Continuous Control of Sample Temperature: Air Dryer and Air Chiller