



**Nuclear Magnetic Resonance 400 MHz (NMR):** Fourier transform Nuclear Magnetic Resonance spectrometer, Model AVANCE III 400 Ascend Bruker BioSpin International AG, Switzerland. Magnet: 8.96 Tesla (Superconducting), 50 mm bore Probes Available: For Solution State NMR 5 mm Broad Band Fluorine Observe Probe with gradient along Z-axis and Automated Tuning & Matching (ATM) accessory. 5 mm Broad Band Inverse Probe with gradient along Z-axis and Automated Tuning & Matching (ATM) accessory. Console: The state of the art Avance III 400 NMR console with digital lock and 2 independent RF channels providing 60 W  $^1\text{H}/^{19}\text{F}$  transmitter and 150 W transmitters and broad band Preamplifier. In addition 5 W  $^2\text{H}$  transmitter for deuterium observe and decoupling.