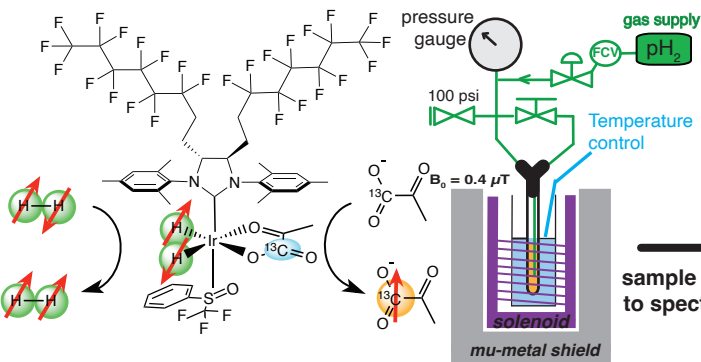
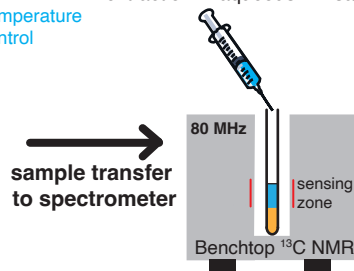


a. Setup for SABRE-SHEATH polarization transfer



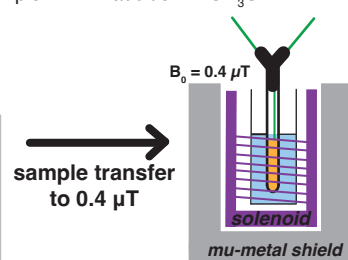
b. Biphasic SABRE purification procedure before ¹³C detection

1. NMR tube depressurization
2. Water addition for [1-¹³C]pyruvate extraction in aqueous HP sample



c. SABRE-SHEATH Reuse after Recovery

1. Water evacuation
2. [1-¹³C]pyruvate (30mM) addition in CD₃OD



d. ¹³C NMR Spectra of consecutive hyperpolarizations and extractions

1st run

HP [1-¹³C]pyruvate = 30 mM

HP [1-¹³C]pyruvate ≈ 25 mM in aqueous solution

2nd run

3rd run

