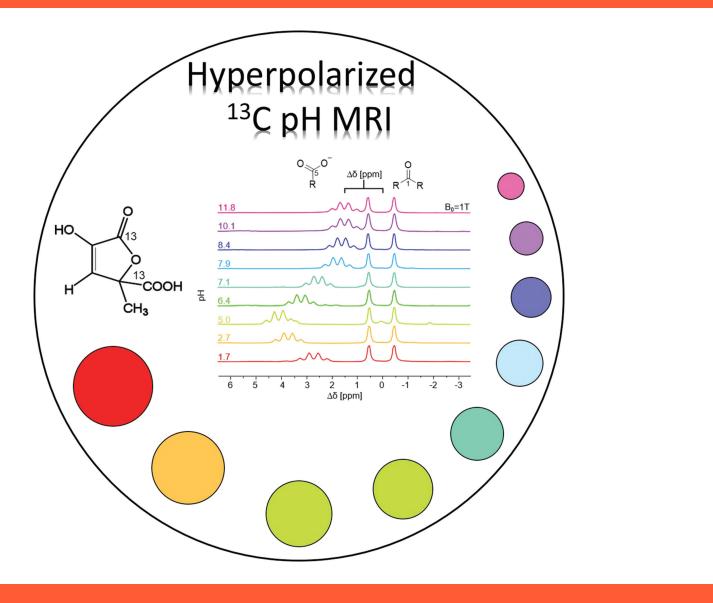
mmr is Sclence



Hyperpolarized [1,5-13C₂]zymonic acid in D₂O

Christian Hundshammer, 2015

Nuclear Medicine Department | Klinikum rechts der Isar

Field strength: 42.58 MHz

Why is this your favorite spectrum?

I love the spectra because they describe the basic idea of hyperpolarized pH *in vivo* pH imaging. The stacked spectra show hyperpolarized [1,5-¹³C₂]zymonic acid at varying pH values at 1 T magnetic field strength measured on a tabletop NMR spectrometer (Magritek). The scalar couplings of the carbon-13 atoms with their attached protons can be nicely seen as a doublett and a quartett. I did a night shift in the lab to record the series, because we can just polarize and measure one sample at a time.