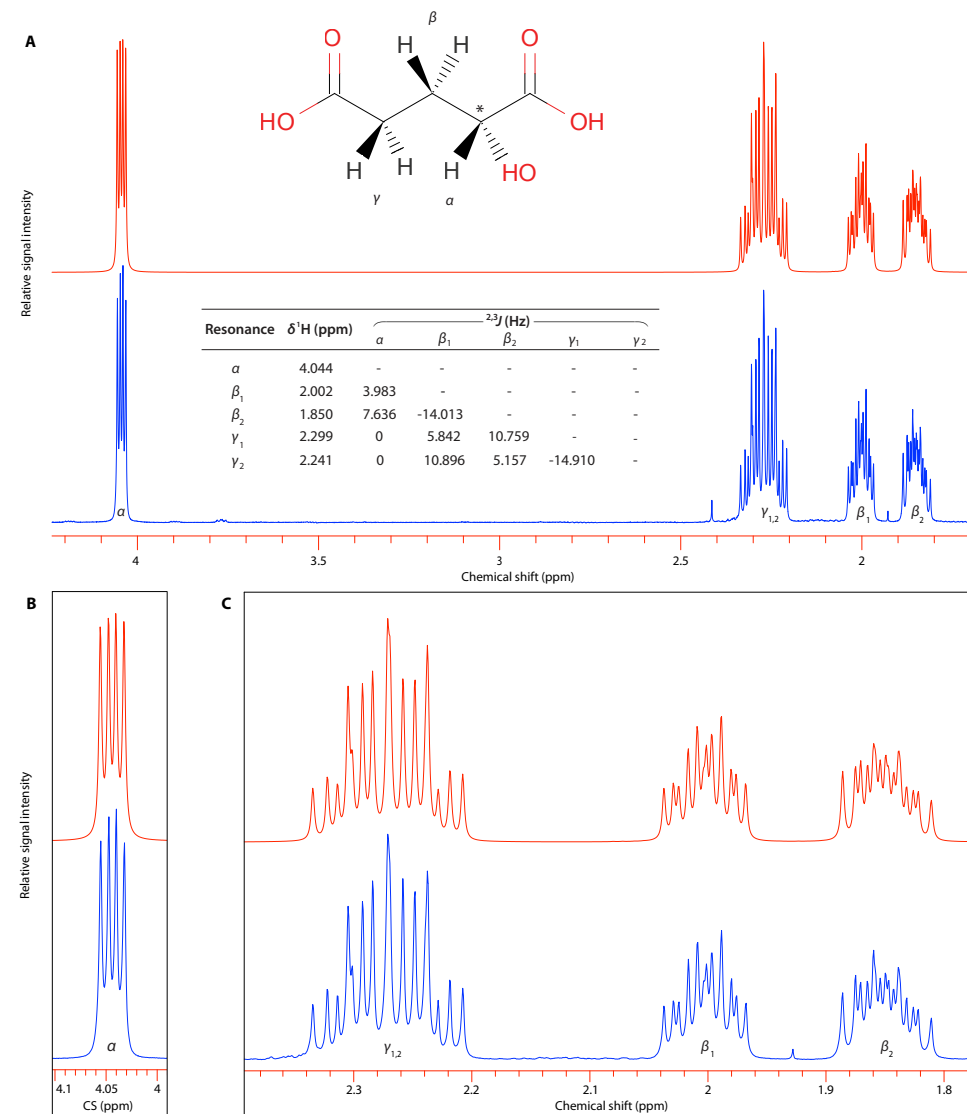


# nMR is Science



*D-2-hydroxyglutarate 10 mM solution /  $D_2O$*

**Llewellyn Jalbert, 2011**

Radiology Department | UCSF

**Field strength:** 500 MHz

**Why is this your favorite spectrum?**

In 2011, we found a new clinically relevant metabolite, 2-hydroxyglutarate (2HG), in the spectra from human brain tumors that contained specific oncogene mutations that reprogrammed tumor metabolism. This spectrum was our characterization of the J-coupling properties of this strongly coupled spin system. It ended up in the supplementary materials of our paper, but I always loved how perfectly the experimental spectrum (blue) agreed with the simulated spectrum (red), a great illustration of complex spin systems.