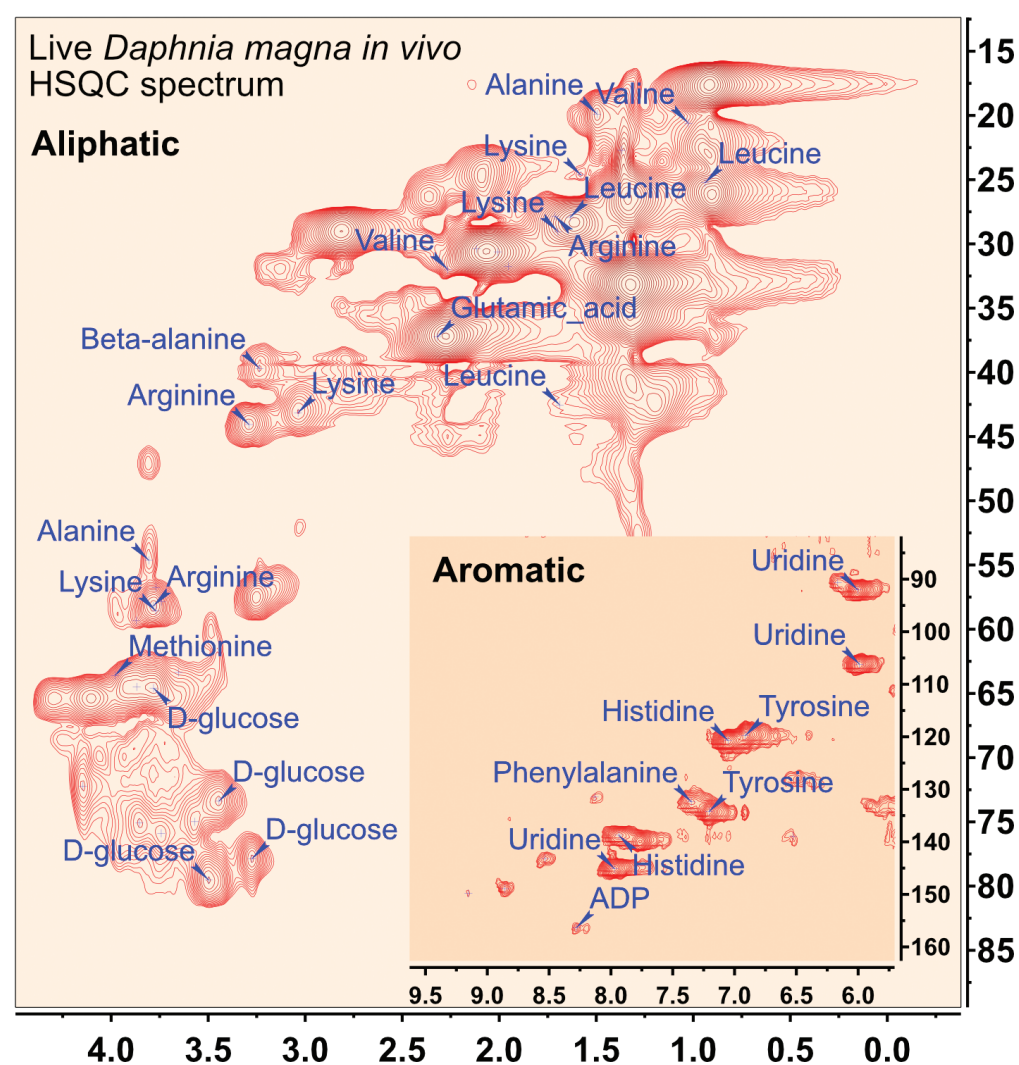


nmr is science



15-20 live *Daphnia magna* in a 5 mm NMR tube

Rudraksha Dutta Majumdar, 2016

Physical & Environmental Sciences Department | University of Toronto, Scarborough

Field strength: 11.74 T

Why is this your favorite spectrum?

This is a completely *in vivo* NMR spectrum, meaning that the test organisms, *Daphnia magna*, were alive. We were able to collect similar HSQC spectra over a period of 48 hours, which allowed us to monitor real-time metabolomic changes in the living organisms on exposure to contaminants. This a major step toward *in vivo* environmental metabolomic studies.