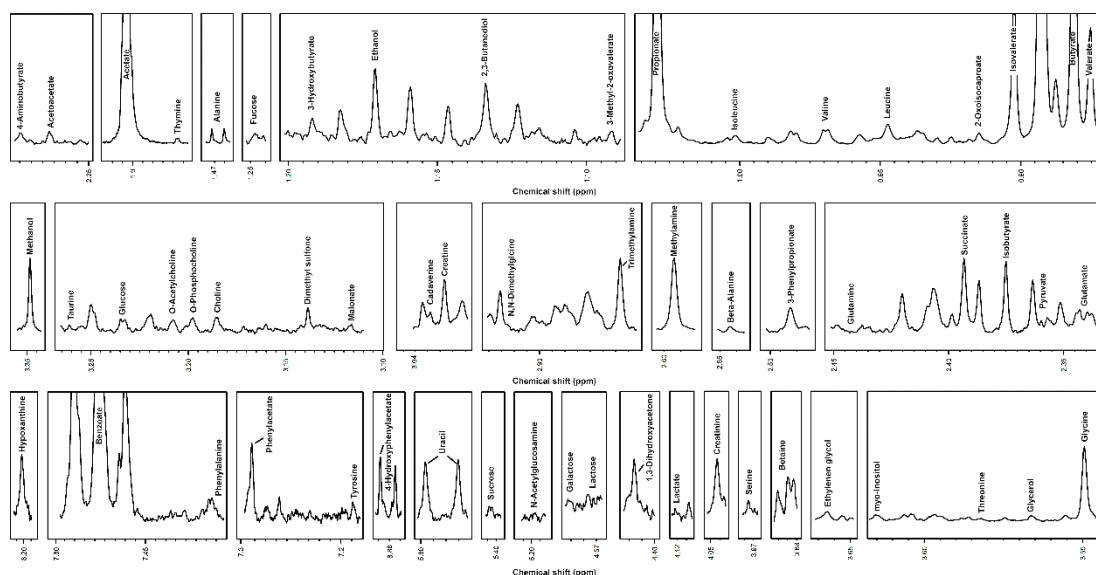


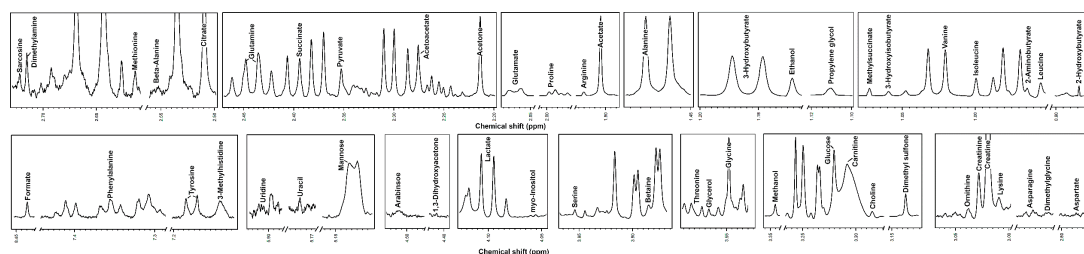
# Metabolomic Analysis of Multiple Biological Specimens (Feces, Serum, and Urine) by $^1\text{H}$ -NMR Spectroscopy from Dairy Cows with Clinical Mastitis

Chenglin Zhu <sup>1</sup>, Qian Zhang <sup>1</sup>, Xin Zhao <sup>1</sup>, Zhibo Yang <sup>1</sup>, Falong Yang <sup>2</sup>, Yang Yang <sup>3</sup>, Junni Tang <sup>1,\*</sup> and Luca Laghi <sup>4,\*</sup>

## Supplementary material



**Figure S1.**  $^1\text{H}$ -NMR spectrum from feces sample representative of all the registered spectra. The name of each molecule appears over the signal used for its quantification. To ease the reader's visual inspection, for each portion a spectrum with a convenient signal-to-noise ratio has been selected.



**Figure S2.**  $^1\text{H}$ -NMR spectrum from serum sample representative of all the registered spectra. The name of each molecule appears over the signal used for its quantification. To ease the reader's visual inspection, for each portion a spectrum with a convenient signal-to-noise ratio has been selected.



Figure S5

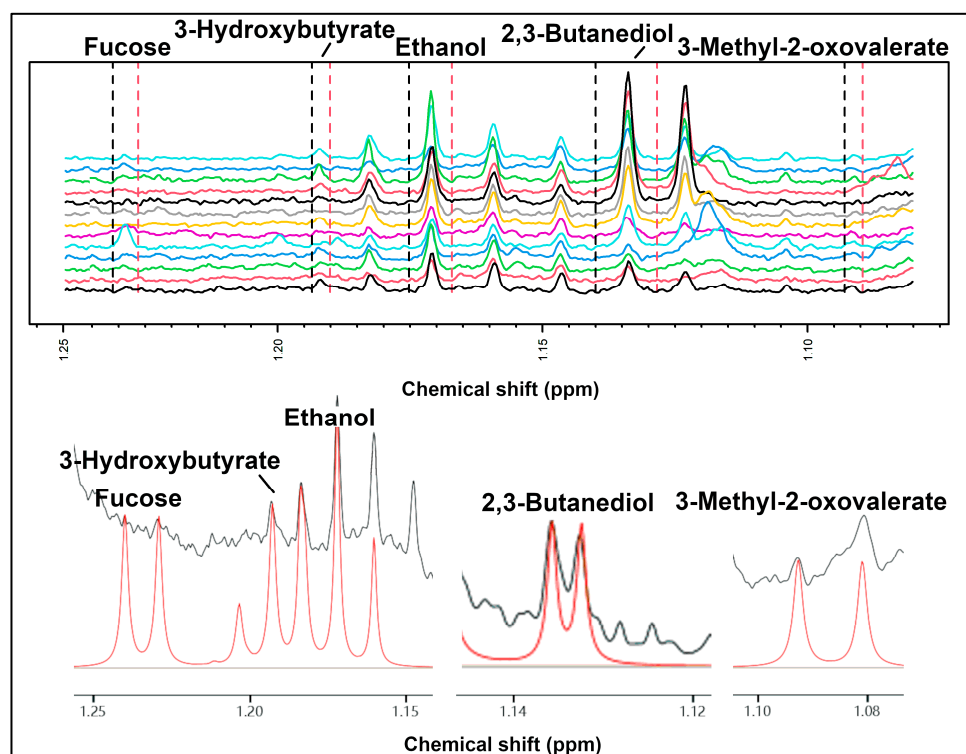


Figure S6

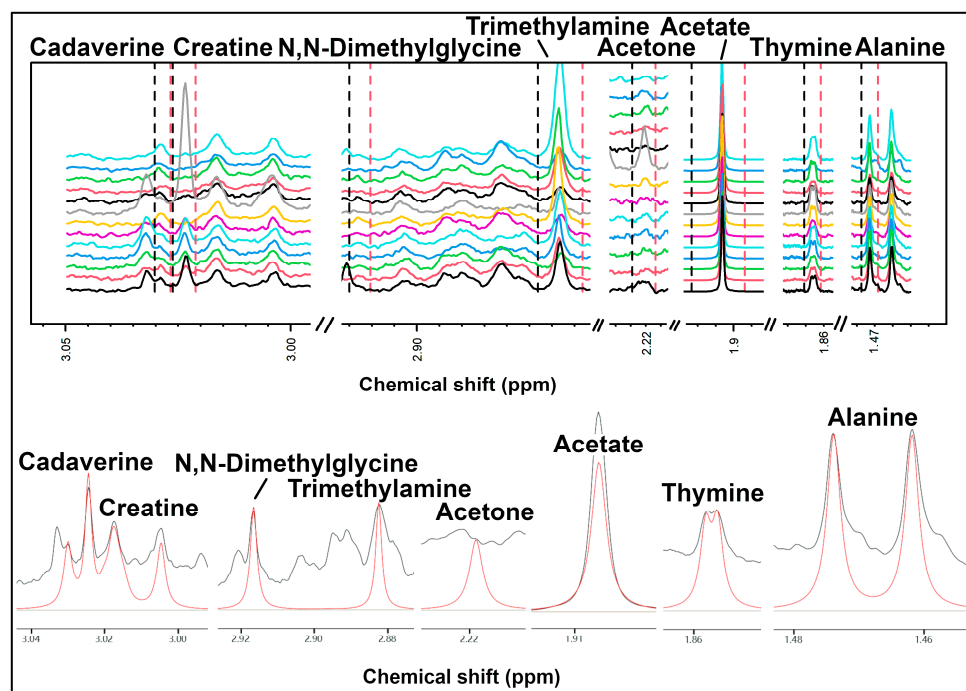


Figure S7

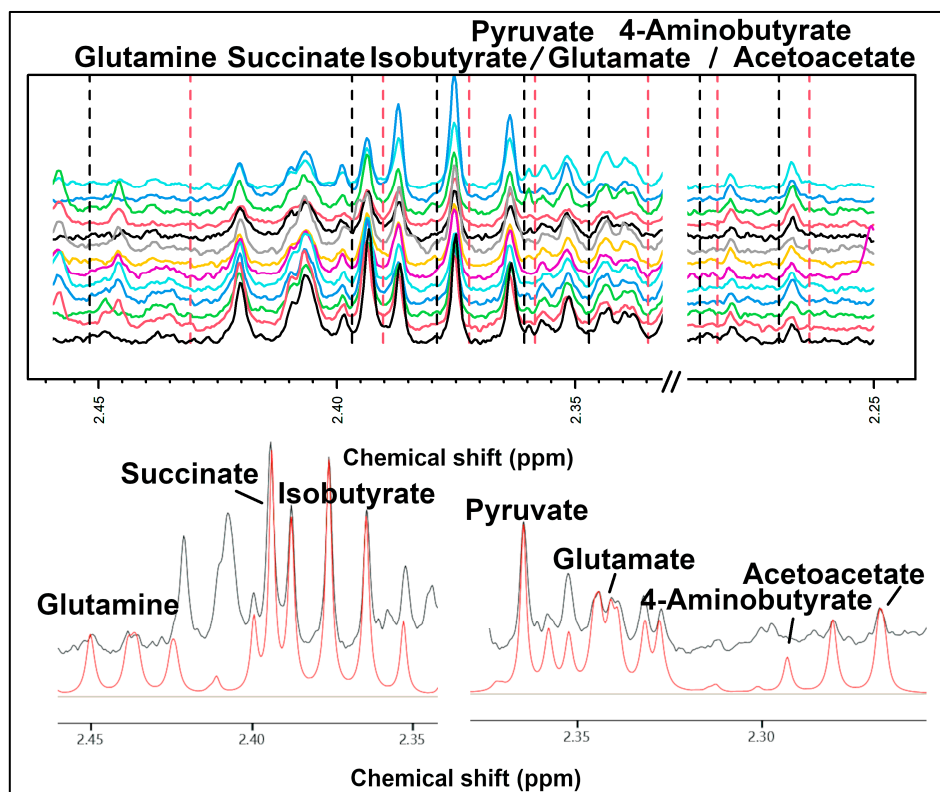


Figure S8

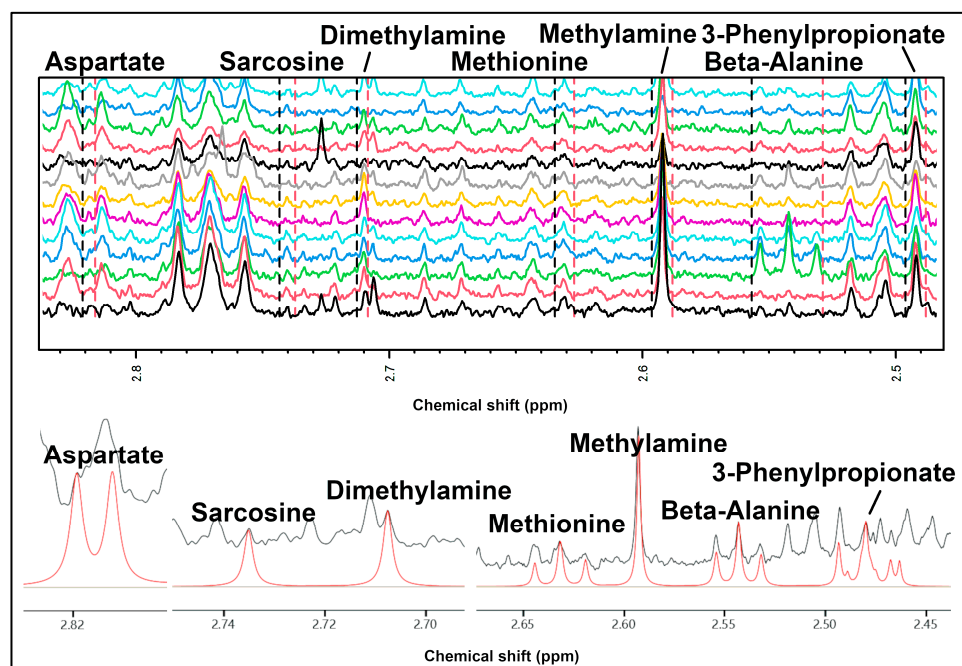


Figure S9

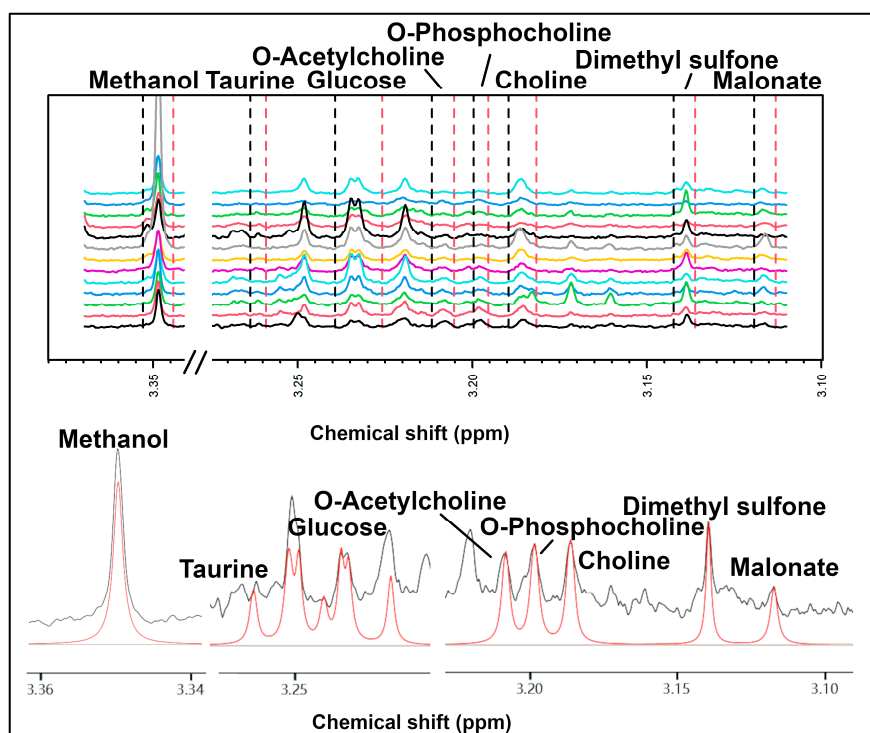


Figure S10

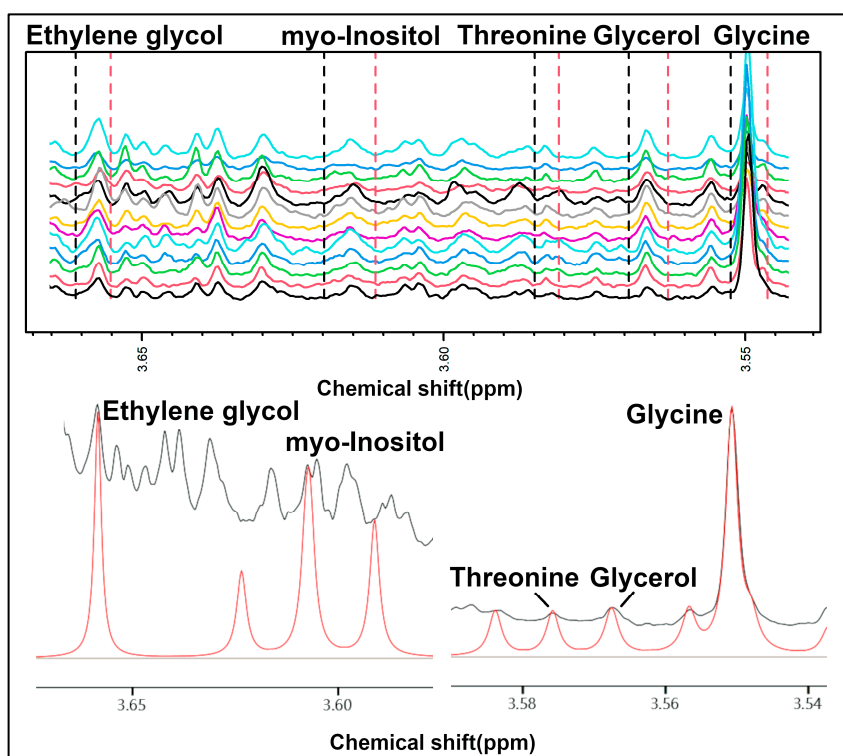
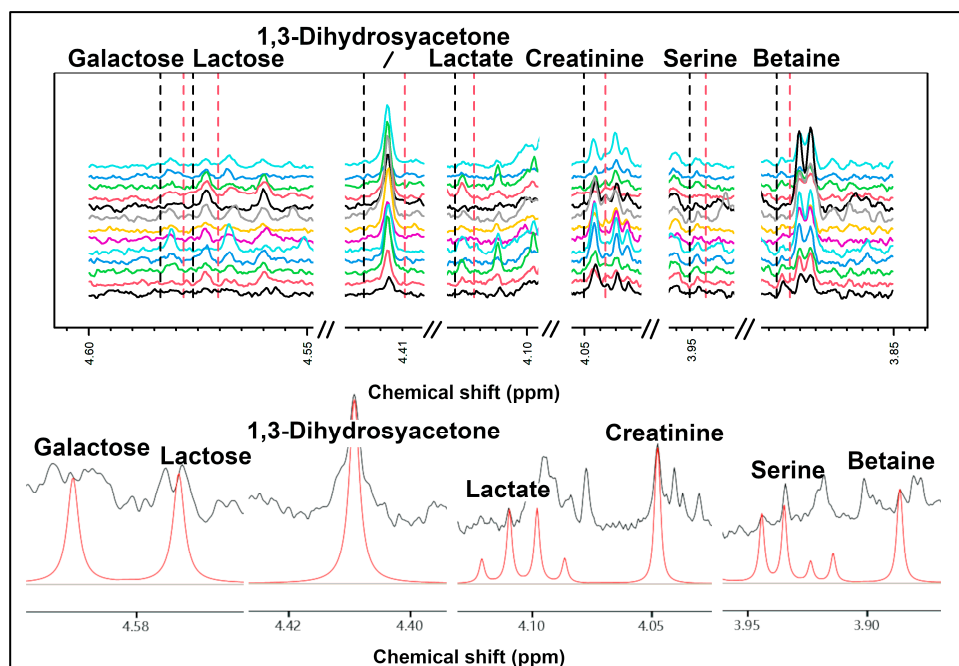


Figure S11



## Urine

Figure S12

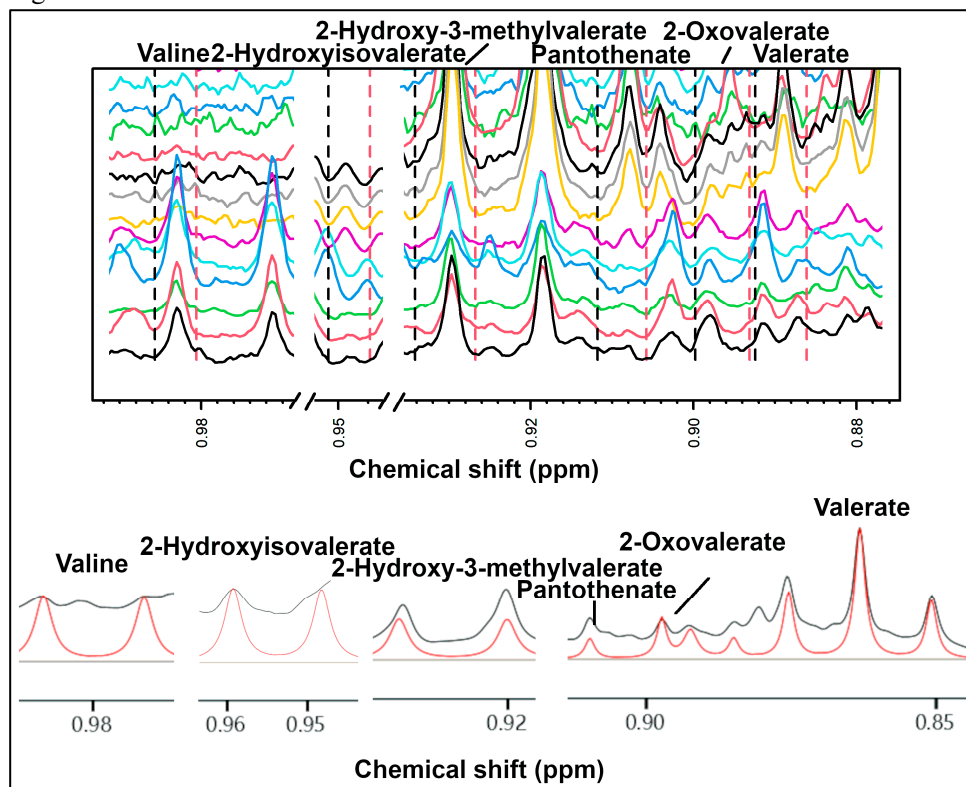


Figure S13

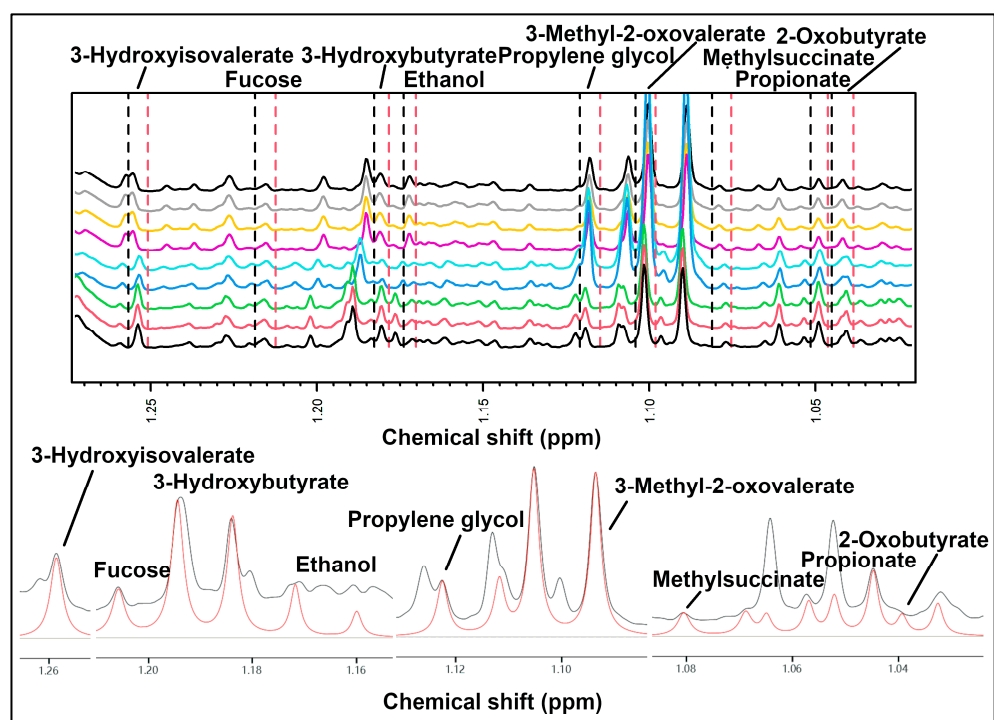


Figure S14

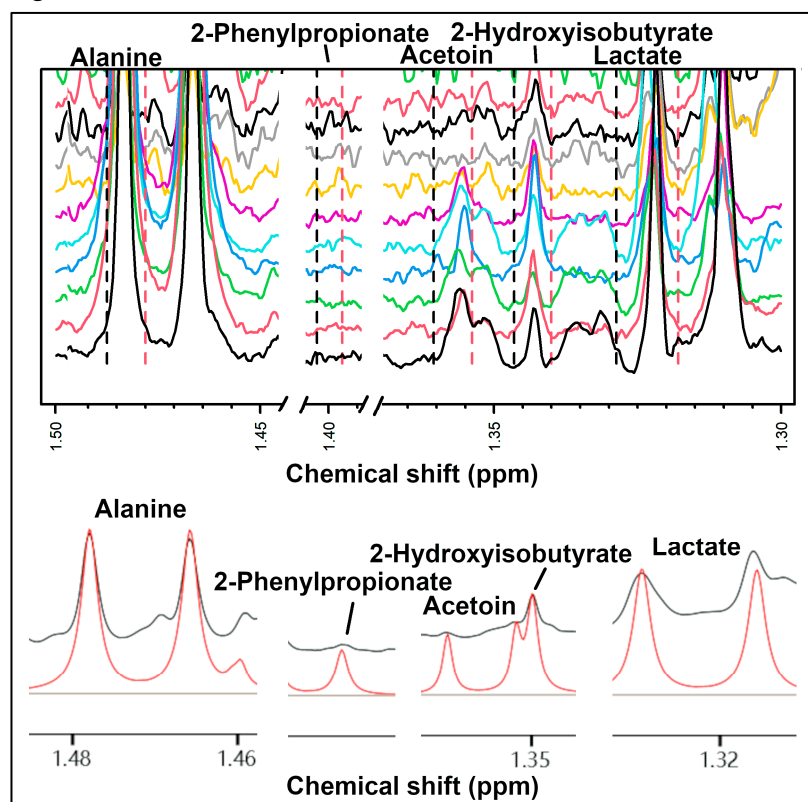




Figure S15

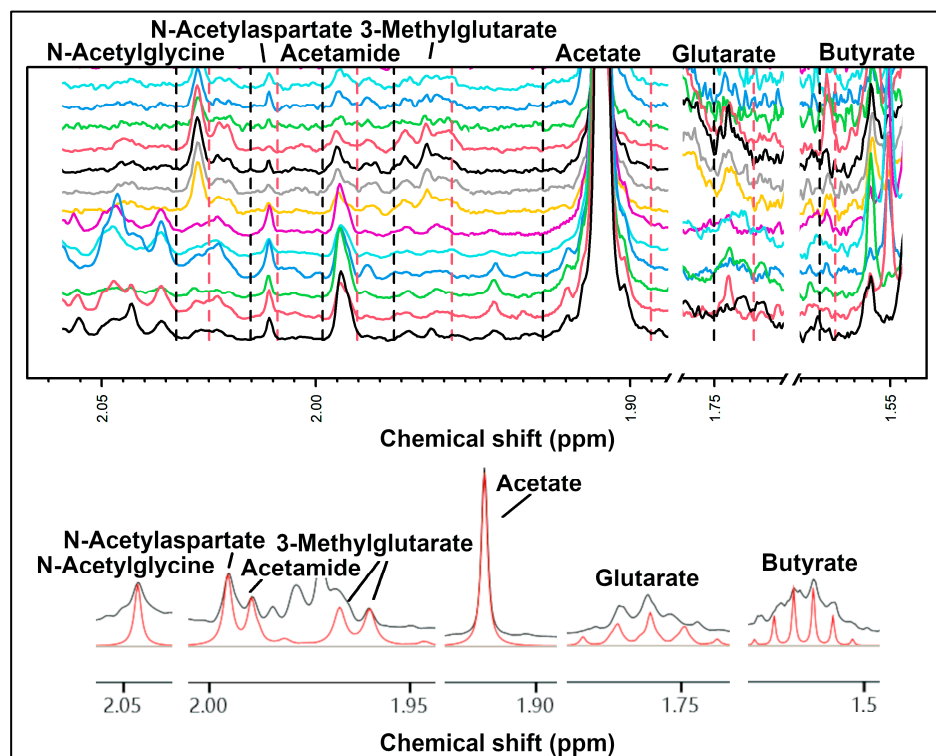


Figure S16

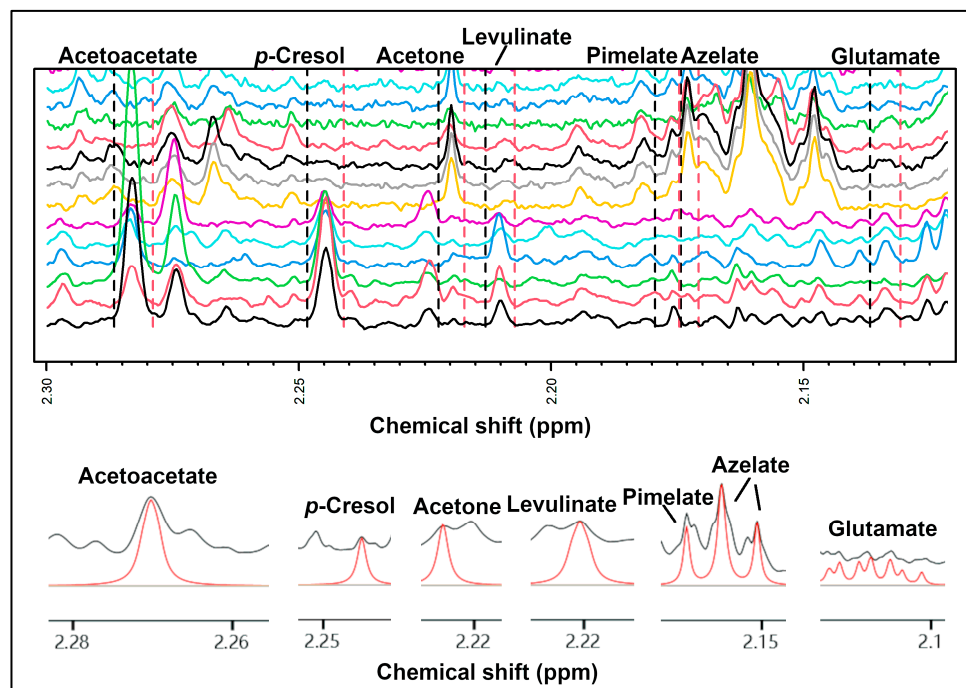




Figure S17

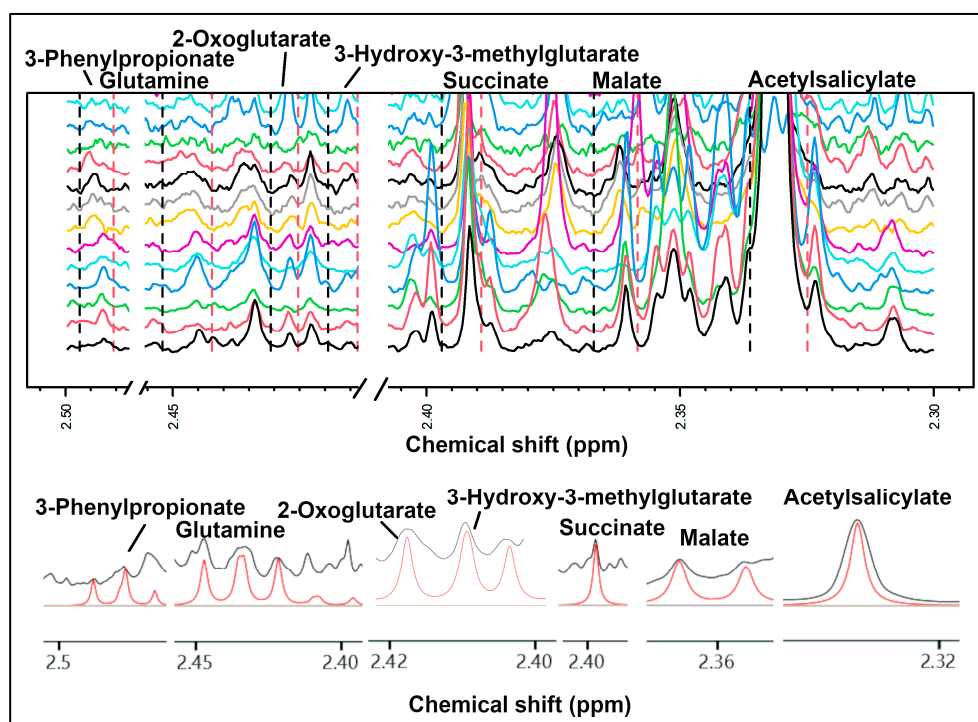


Figure S18

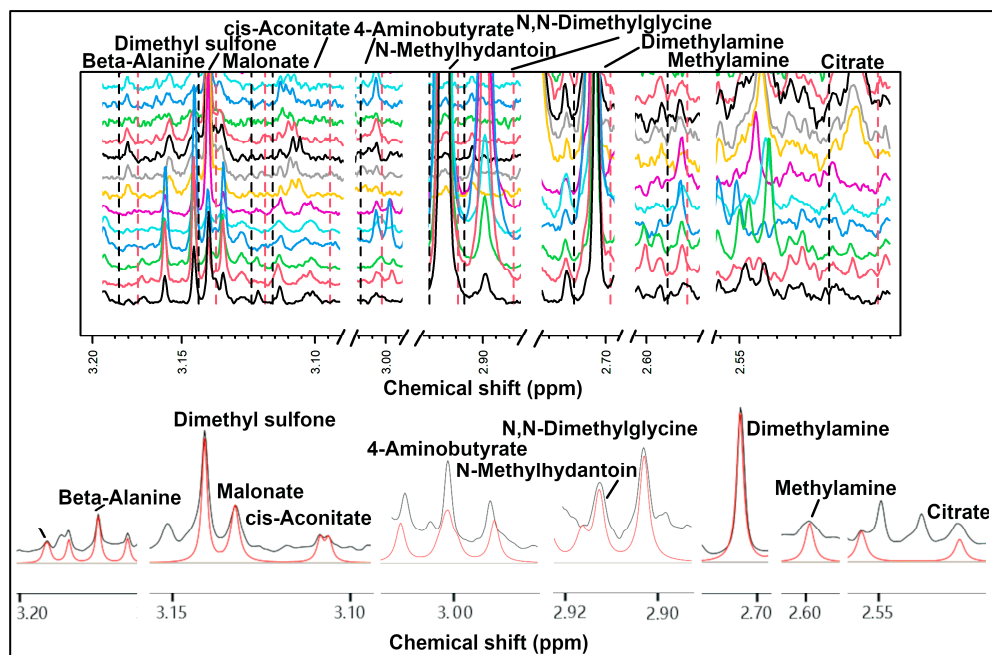


Figure S19

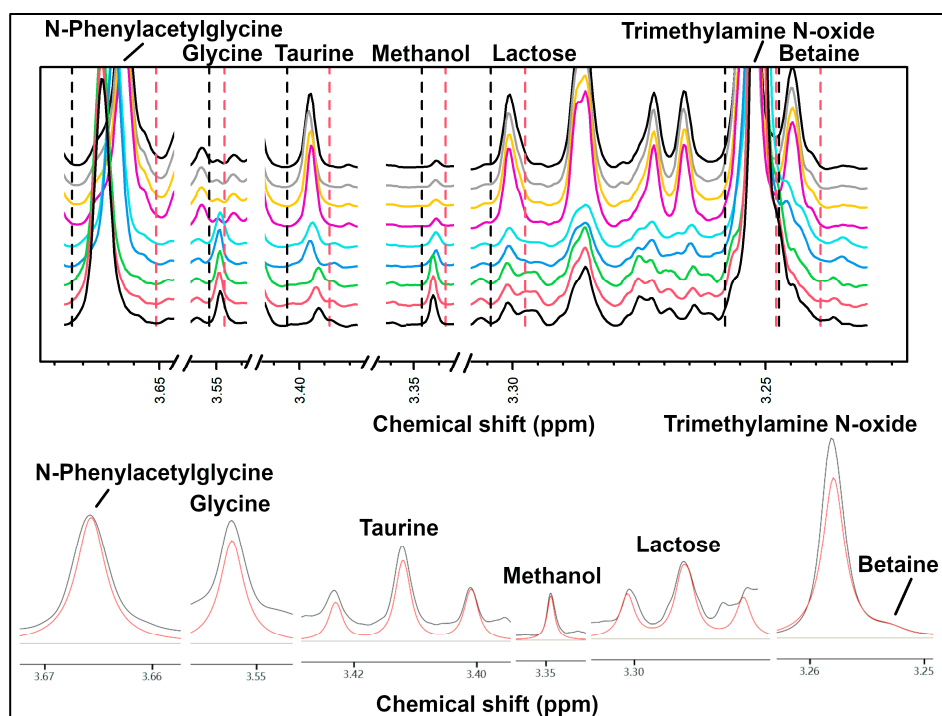


Figure S20

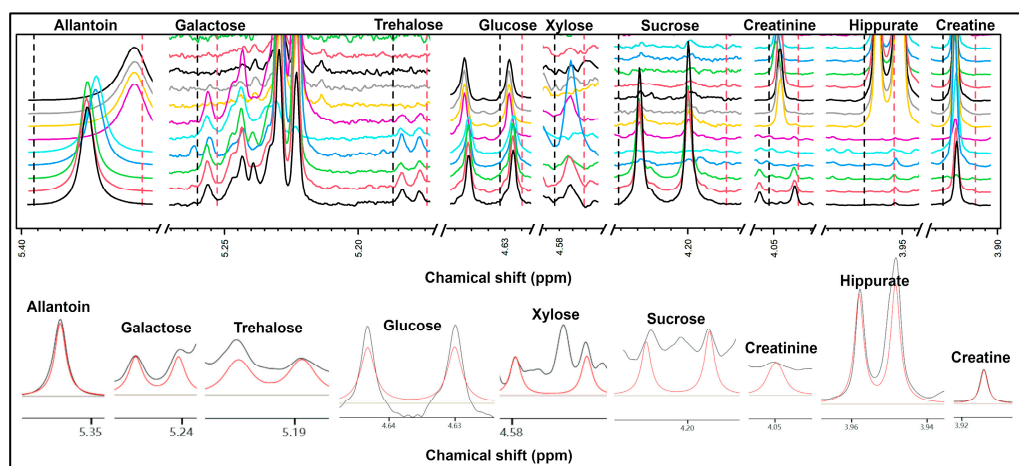


Figure S21

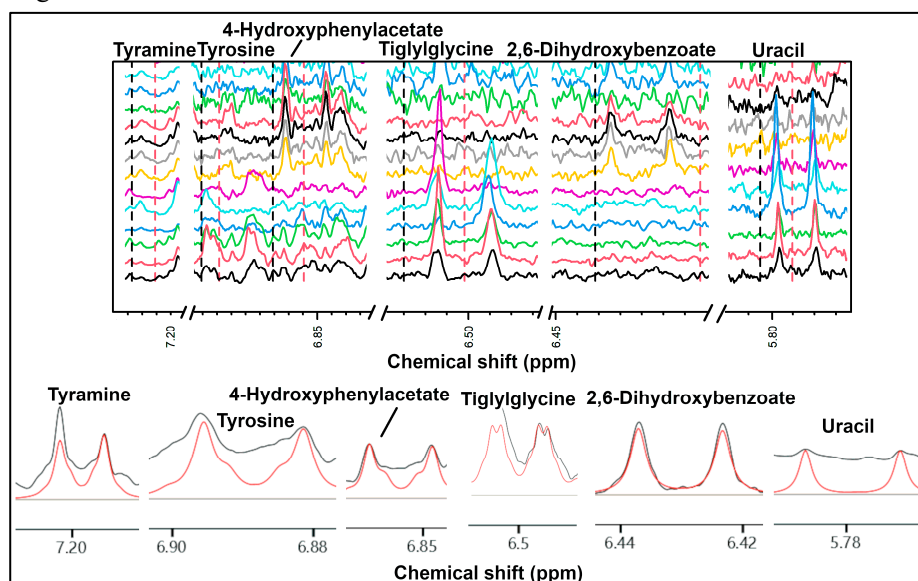
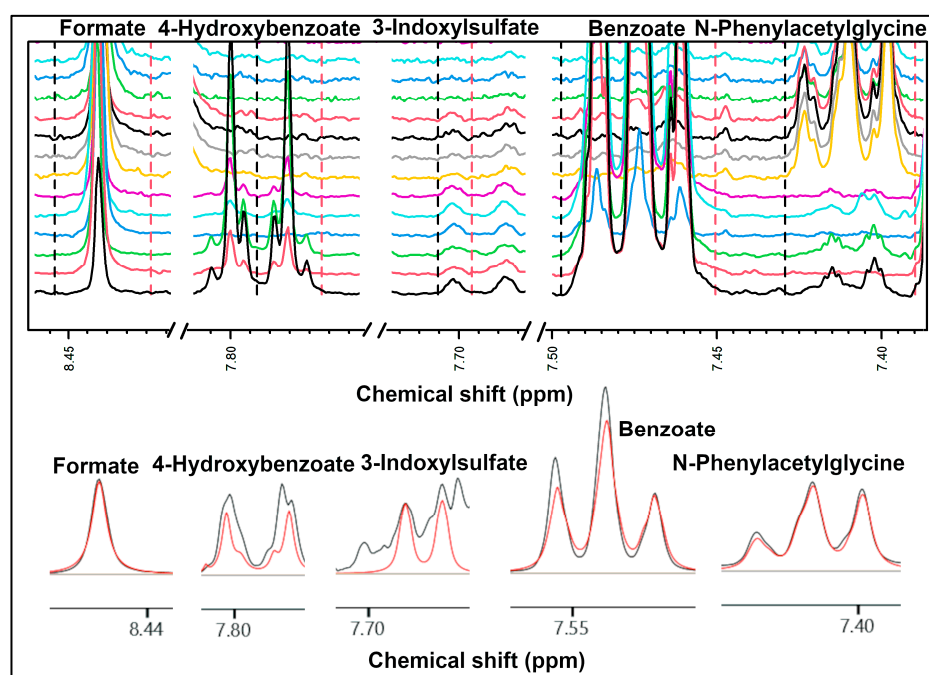


Figure S22



## Serum

Figure S23

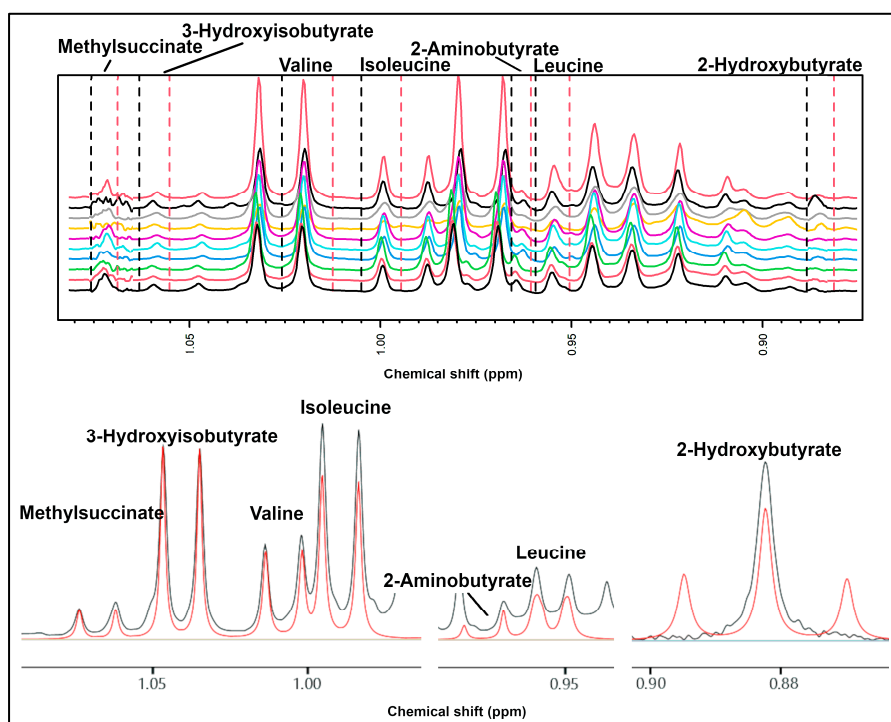


Figure S24

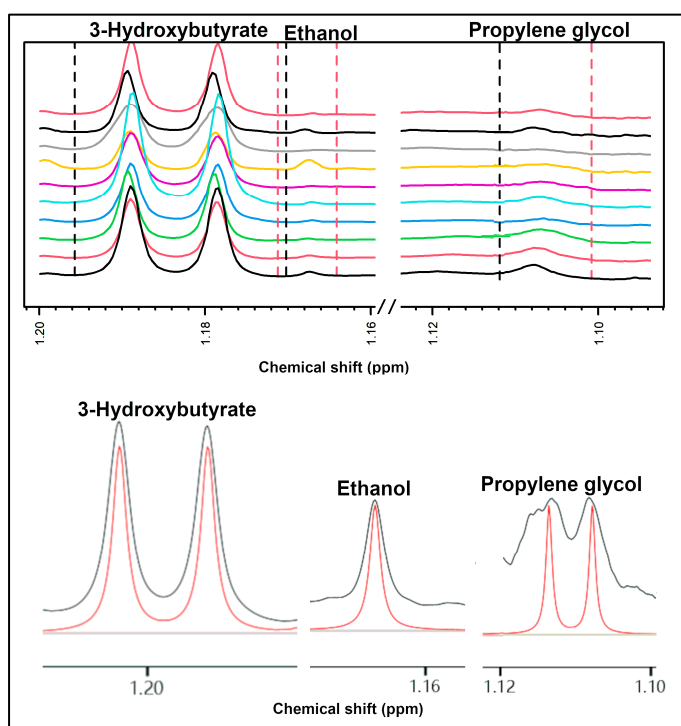


Figure S25

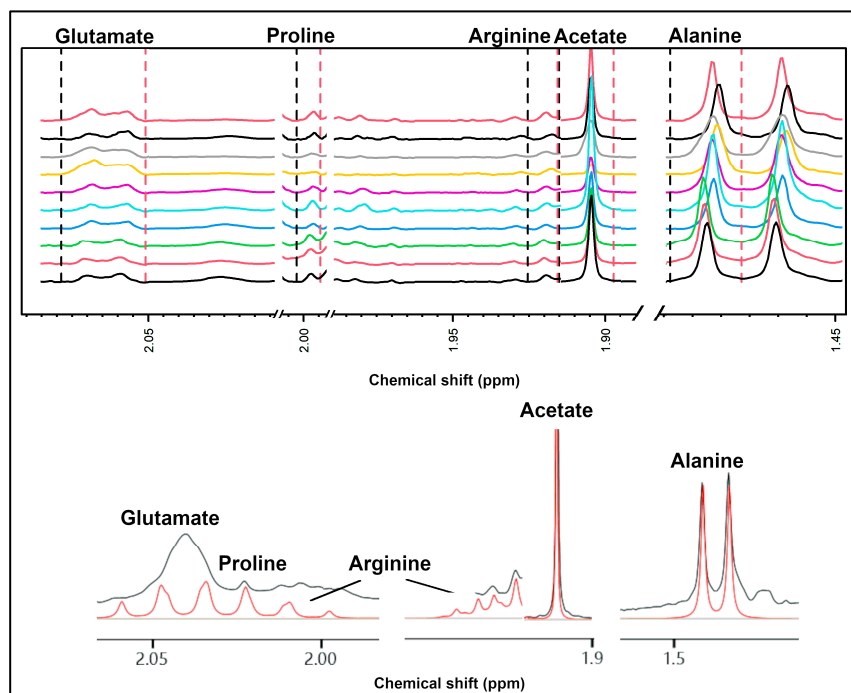


Figure S26

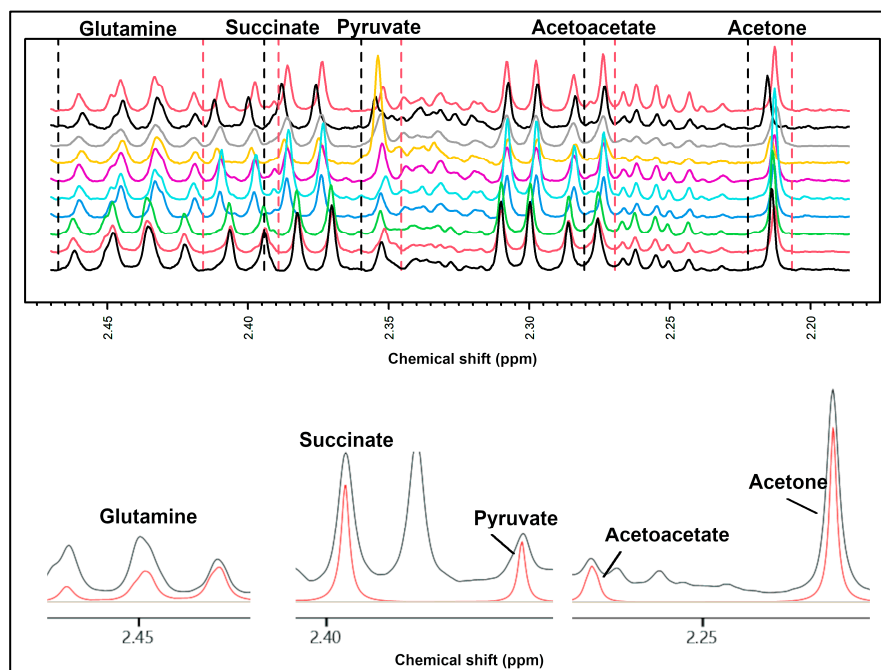


Figure S27

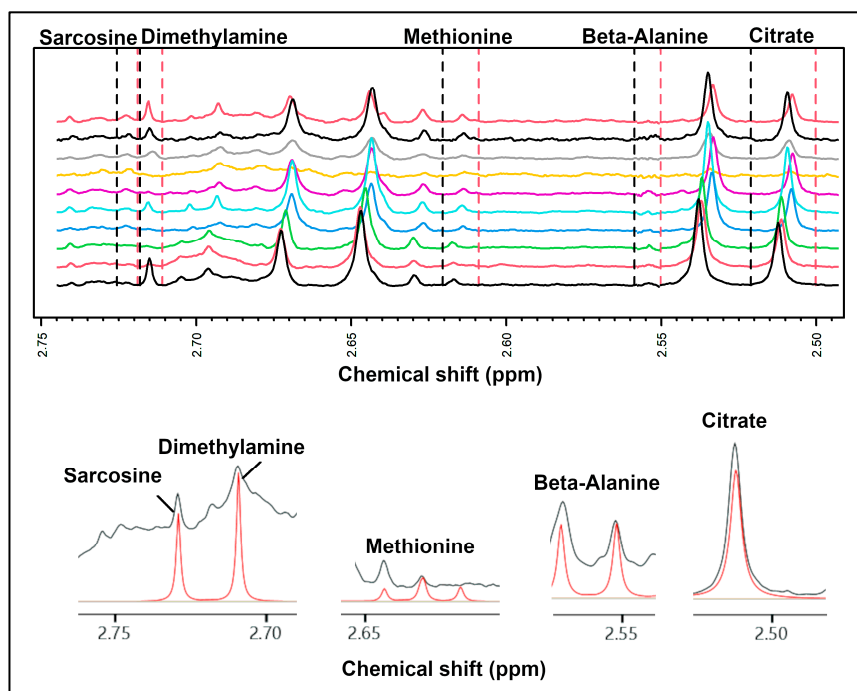


Figure S28

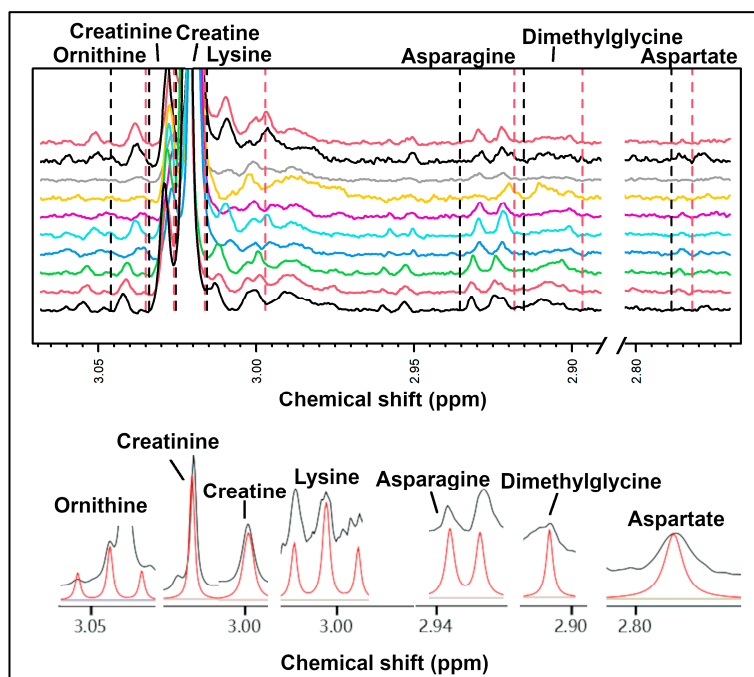


Figure S29

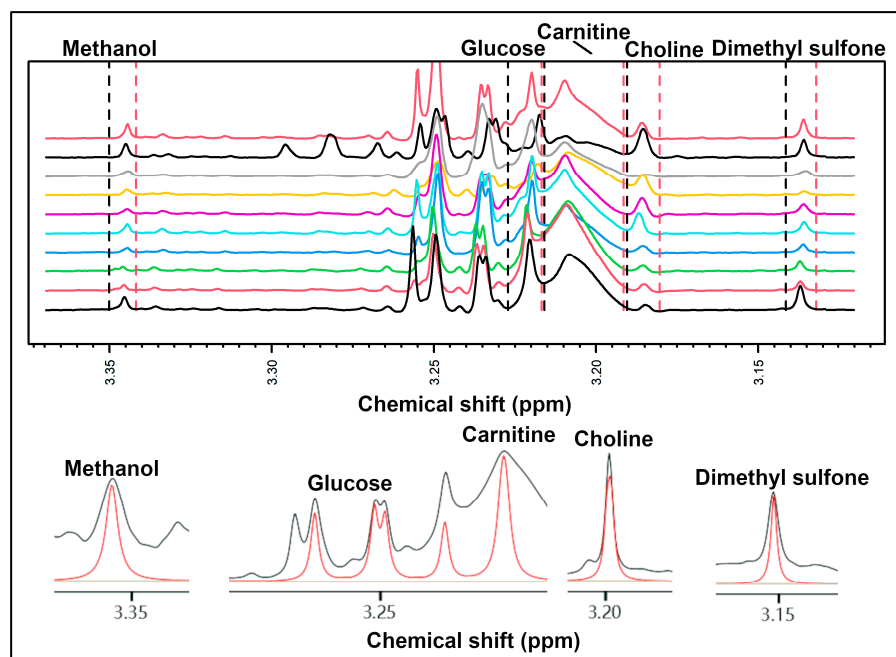


Figure S30

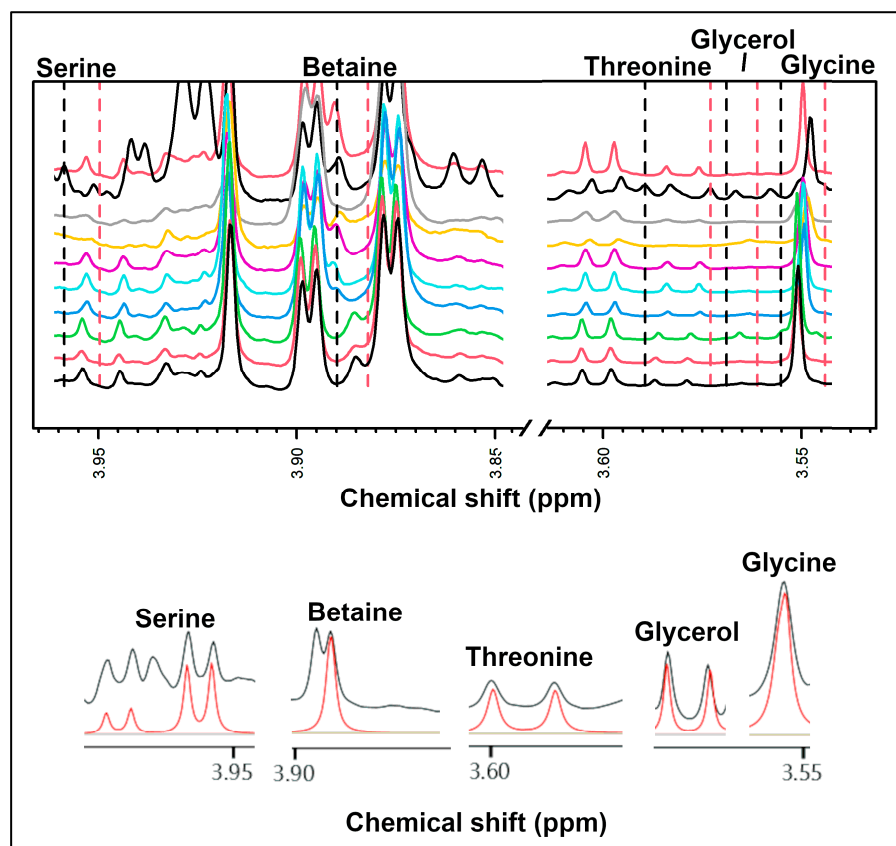




Figure S31

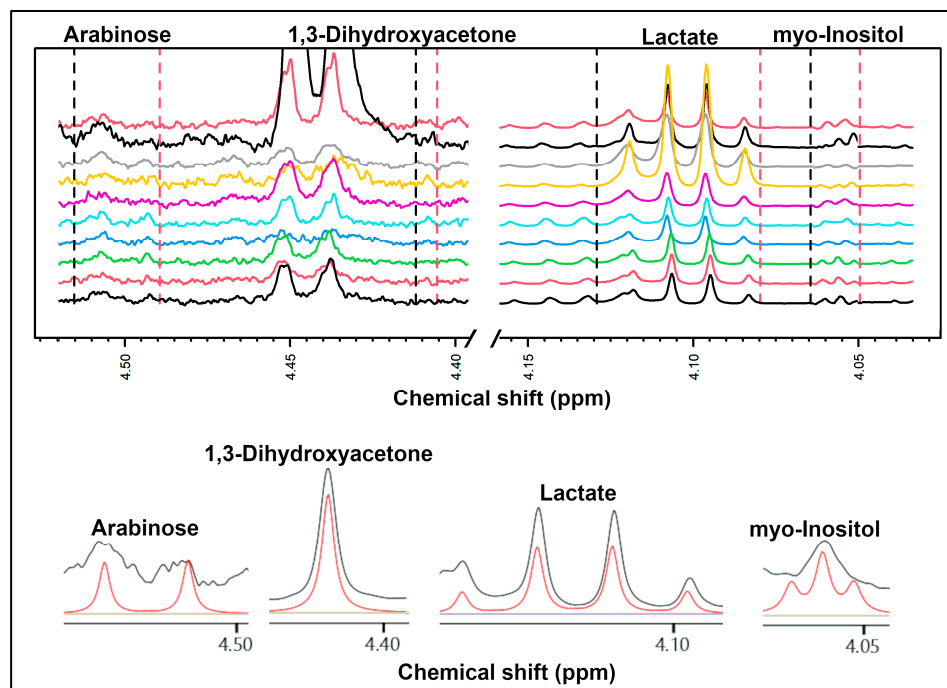


Figure S32

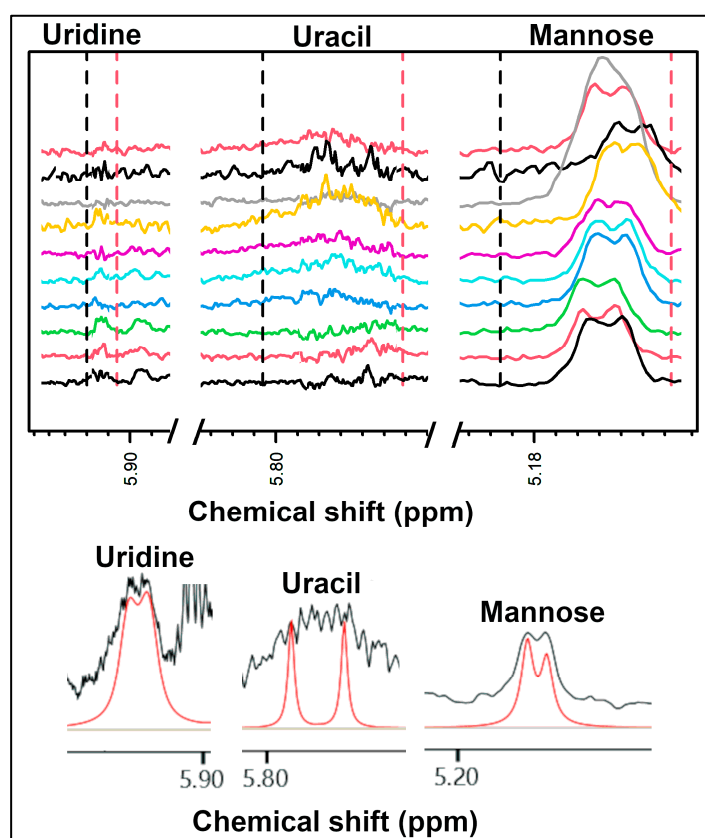


Figure S33

