

Table S1. Major contributing metabolites for identified spectral regions. Abbreviations: adenosine triphosphate (ATP), N-acetylaspartate (NAA), glycerophosphocholine (GPC), lactate (Lac), choline (Chol), myo-inositol (m-Ino), tyrosine (Tyr), serine (Ser), phosphocreatine (PCr), creatine (Cr), glucose (Glc), alanine (Ala), glutathione (GSH), glutamine (Gln), glutamate (Glu), phosphoryl choline (Pchol), valine (Val), glycine (Gly), taurine (Tau), scyllo-inositol (s-Ino), phenylalanine (Phe), histidine (His), aspartate (Asp), pyruvate (Pyr), gamma-aminobutyric acid (GABA), N-acetylaspartylglutamic acid (NAAG), acetone (Acet), To Be Determined (TBD).

4.40-4.38	<i>ATP, NAA</i>
4.33-4.31	<i>GPC</i>
4.11-4.09	<i>Lac</i>
4.06-4.04	<i>Chol, m-Ino, Tyr</i>
4.03-4.01	<i>TBD</i>
3.94-3.92	<i>Ser, PCr, Tyr</i>
3.91-3.89	<i>Cr, GPC</i>
3.88-3.87	<i>Glc</i>
3.85-3.83	<i>GPC, Glc, Ser,</i>
3.78-3.73	<i>Ala, GSH, Glycerol, Glc, Gln, Glu</i>
3.70-3.68	<i>Glc</i>
3.67-3.65	<i>GPC</i>
3.64-3.62	<i>Glycerol, Pchol</i>
3.61-3.59	<i>GPC, m-Ino, Val</i>
3.56-3.53	<i>Glycerol, Gly</i>
3.52-3.51	<i>Glc, m-Ino,</i>
3.44-3.40	<i>Tau, Glc</i>
3.35-3.33	<i>s-Ino</i>
3.28-3.24	<i>m-Ino, Phe, Tau,</i>
3.23-3.21	<i>Glc, His, Phosphoryl ethanolamine, GPC, Pchol</i>
3.20-3.19	<i>Chol, Homocarnosine, Tyr</i>
3.14-3.12	<i>His</i>
3.01-2.99	<i>GABA, Homocarnosine, Histamine</i>
2.98-2.97	<i>Histamine, GSH</i>
2.83-2.81	<i>TBD</i>
2.80-2.78	<i>Asp</i>
2.72-2.70	<i>NAAG</i>
2.69-2.68	<i>TBD</i>
2.67-2.65	<i>NAA, Asp</i>
2.51-2.48	<i>GSH, NAA</i>
2.47-2.46	<i>TBD</i>
2.45-2.44	<i>Gln</i>
2.43-2.41	<i>Gln</i>
2.37-2.33	<i>Homocarnosine, Pyr, Glu</i>
2.30-2.27	<i>GABA</i>

2.16-2.12	<i>GSH, Gln, Glu</i>
2.07-2.05	<i>NAAG</i>
2.02-2.00	<i>NAA</i>
1.93-1.90	<i>Acet</i>
1.89-1.87	<i>GABA, Homocarnosine, NAAG</i>
1.49-1.47	<i>Ala</i>
1.34-1.31	<i>Lac</i>