



Figure S1. (A). Overview of transamination reactions reveals decreased amido-containing amino acids Gln and Asn in LN RBCs and increased carboxylate amino acids Glu and Asp. (B). Glutathione pool metabolites. (C). Overview of urea cycle/polyamine metabolites. (A–C) Data are peak areas (au). Statistics are one-way ANOVA with Kruskal-Wallis multiple comparisons test. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$.