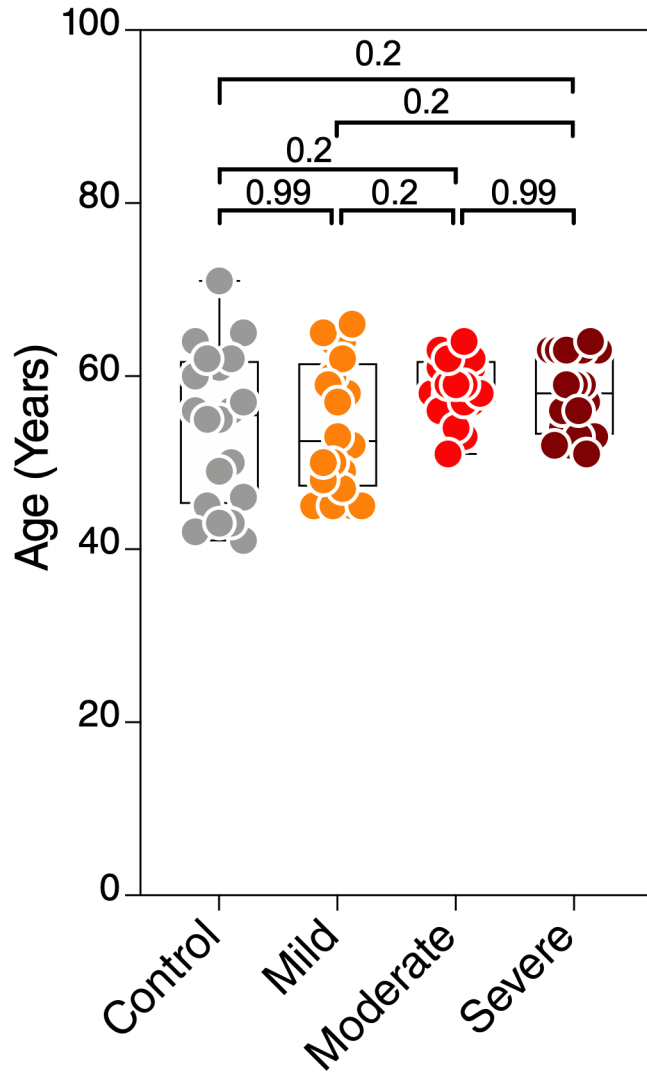
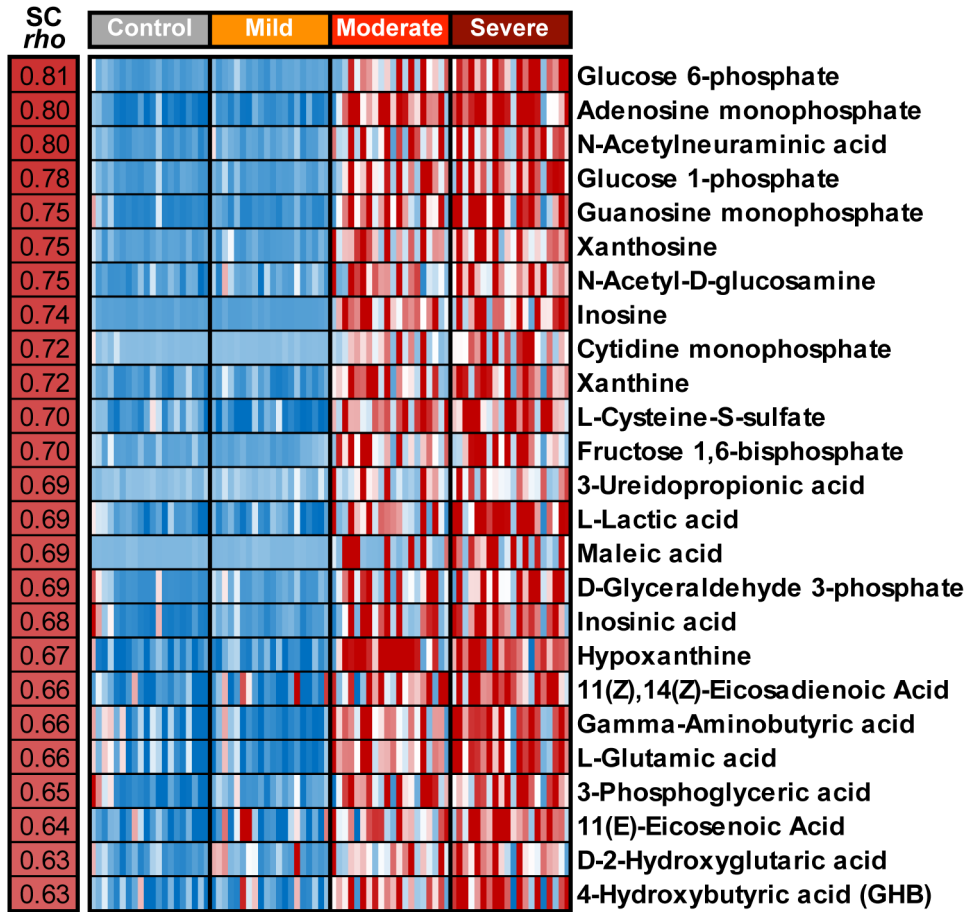


Supplementary Figure 1

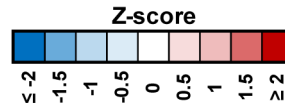
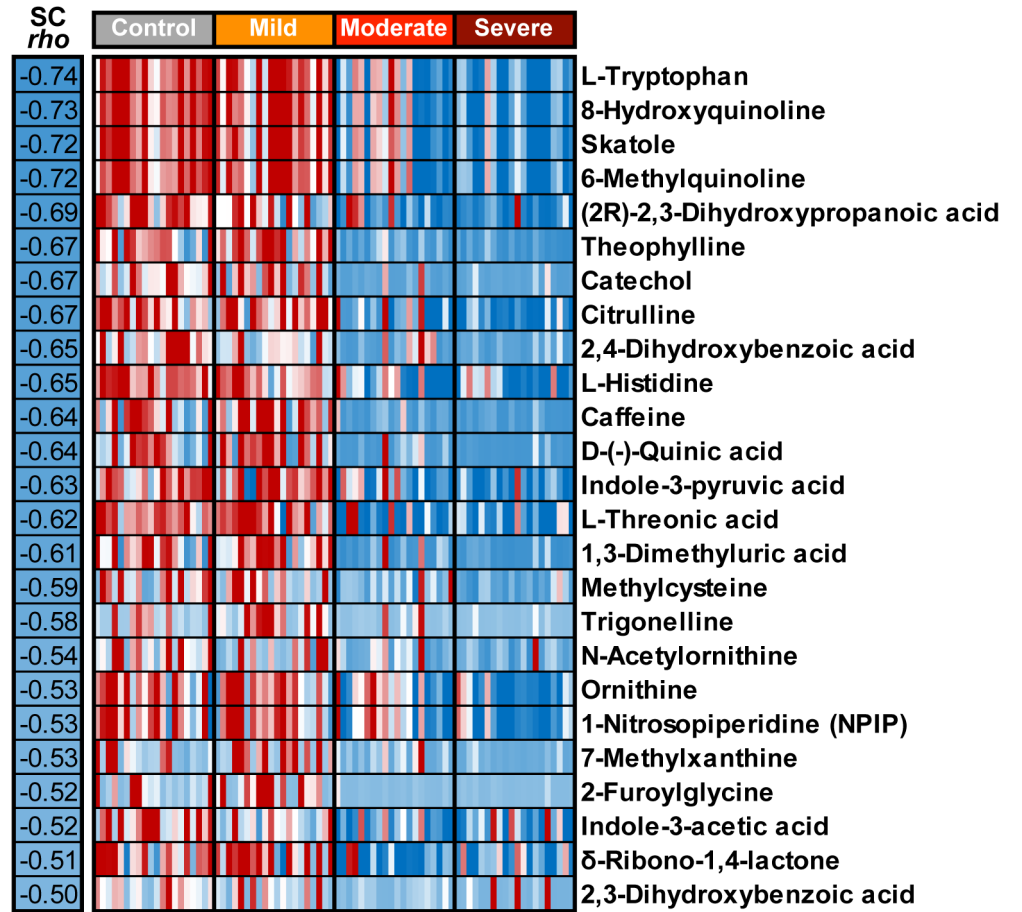


Supplementary Figure 2

Top 25 metabolites induced by severe COVID-19

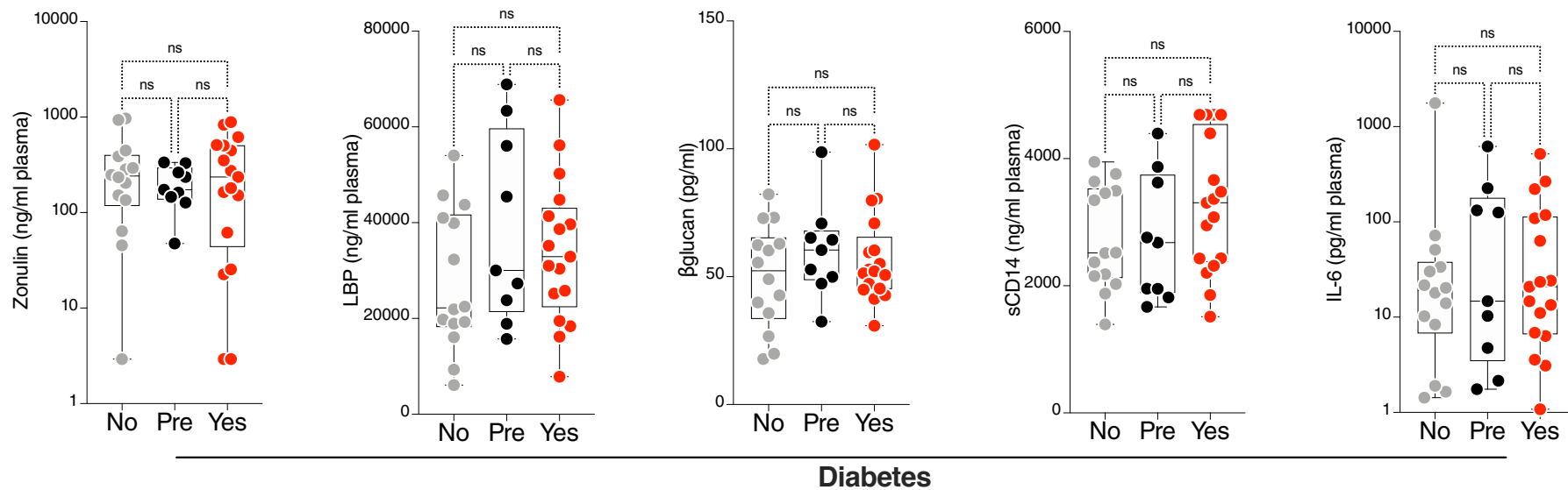


Top 25 metabolites reduced by severe COVID-19



Supplementary Figure 3

a



b

