

SUPPLEMENTARY FIG. S3. Endothelial metabolomic responses to shear stress. Metabolite samples were collected from HAEC exposed to static control (C), OSS, or PSS (n=6 per condition). (A) PCA was performed on a host of measured metabolites to reveal significantly different metabolites in response to the three conditions. Of the 156 metabolites with a known identity, PCA revealed a significant overlap in response to the three conditions. The individual samples are numerically annotated. (B) After PSS and OSS, PCA revealed a distinct separation among six statistically different metabolites. (C) The concentrations of selected metabolites were significantly changed after PSS and OSS conditions (*p < 0.01 vs. control, n=6), including an increase in glycolysis-related metabolite, DHA, but a decrease in gluconeogenic metabolite, aspartic acid. DHA, dihydroxyacetone; PCA, principal component analysis.