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**Table S4. Correlation of oxidized fatty acids with precursor fatty acids1.**

**Precursor Fatty Acid Oxidized Fatty Acid Correlation Coefficient2**

 18:2,n-6 13 + 9-HODE 0.55

 18:1,n-6 9.10-DiHOME 0.45

 20:4,n-6 6-keto-PGF1α 0.63

 20:4,n-6 5-HETE 0.75

 20:4,n-6 12-HETE 0.63

 20:4,n-6 15-HETE 0.74

 20:5,n-3 17,18-DiHETE 0.92

 20:5,n-3 18-HEPE 0.92

**1**Correlation coefficients were calculated using precursor fatty acid data from the analysis of the hepatic polar lipids and oxidized lipids quantified in the metabolomic analysis (Figures 11 & 15).

**2**All p-values were <0.001