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| **Abbreviation** | **Groups** |
| Male (M) | M LFD |
| Female (F) | M n3FD | |
| Soluble epoxide hydrolase global knockout (KO) | M HFD | |
|  | M SFD | |
| Low Fat Diet (LFD) | F LFD | |
| High Fat diet (HFD) | F n3FD | |
| Omega-3 enriched Diet (n3FD) | F HFD | |
| Standard Fat Diet (SFD) | F SFD | |
|  | M KO LFD | |
|  | M KO n3FD | |
|  | M KO HFD | |
|  | M KO SFD | |
|  | F KO LFD | |
|  | F KO n3FD | |
|  | F KO HFD | |
|  | F KO SFD | |

The data tables are the analyzed oxylipins reported per sex and genotype including wildtype C57/B6 and global soluble epoxide hydrolase knockout (KO) female and male mice grouped per the diet treatments including those indicated below. The quantification is reported as the picomoles per gram tissue (pmol/g) per individual (n=3-4/group) of oxidized lipid metabolites. The data tables have been separated by tissue (brown adipose tissue, BAT; white adipose tissue, WAT; brain; and liver) for clarity but are samples from the same individual mice per the indicated group. Further experimental details are included in the text of the parent manuscript.