

Suppl File 5 Measured serum and liver lipid metabolite concentrations in Cyp2b-null and hCYP2B6-Tg female (A) and male (B) mice fed a HFD for 16 weeks.

A.

Oxylipin Species	Serum		Liver	
	Cyp2b-null	hCYP2B6-Tg	Cyp2b-null	hCYP2B6-Tg
AA 14,15-EET	3.444E-06 ±	2.909E-05 ±	0.0008699 ±	0.0003727 ±
	2.11E-06	2.946E-06**	0.0004062	0.000219
AA 11,12-EET	0.001911 ±	0.002914 ±	0.007769 ±	0.003422 ±
	0.0003876	0.001033	0.002561	0.001977
AA 9-HETE	0.008382 ±	0.007522 ±	0.01077 ±	0.006018 ±
	0.005741	0.003799	0.005417	0.002752
AA 12-HETE	0.0004833 ±	0.001130 ±	0.002732 ±	0.001756 ±
	9.685E-05	0.0003599	0.0008528	0.001041
AA 11,12-DHET	0.01543 ±	0.02971 ±	0.02317 ±	0.01133 ±
	0.003179	0.006977	0.009411	0.00699
AA PGE2	0.0047044 ±	0 ± 0*	0.0002838 ±	0 ± 0
	0.001773		0.0002838	
AA PGF2a	0.003416 ±	0.005472 ±	0.04234 ±	0.02244 ±
	0.0008837	0.001738	0.02609	0.01324
AA TXB2	6.141E-05 ±	0.0001025 ±	0.001356 ±	0.0006450 ±
	2.902E-05	4.572E-05	0.000447	0.0004188
LA 9-HODE	0.001124 ±	0.004251 ±	0.03462 ± 0.0141	0.01603 ±
	0.0001462	0.0009221*		0.009448
LA 9-HpODE	0.02914 ±	0.02957 ±	0.03637 ±	0.03278 ±
	0.002886	0.004296	0.01197	0.004932
LA 13-KODE	0.0003835 ±	0.001051 ±	0.007301 ±	0.002536 ±
	6.357E-05	0.0001858**	0.00389	0.001444
LA 9,10-DiHOME	9.894E-05 ±	0.000345 ±	0.002194 ±	0.0008417 ±
	4.307E-05	8.309E-05*	0.0008728	0.0005167
EPA Resolvin	0.002928 ±	0.004320 ±	0.0007463 ±	0.0003922 ±
	0.0001994	0.0006148	0.0004635	0.0002707
ALA 9-HOTrE	0 ± 0	0.0001253 ±	0.0006108 ±	0.0002325 ±
		0.0001253	0.0002531	0.0002325
ALA Isoprostane	0 ± 0	0.0002449 ±	0.008005 ±	0.003327 ±
		6.423E-05**	0.003746	0.001886

B.

Oxylipin Species	Serum		Liver	
	Cyp2b-null	hCYP2B6-Tg	Cyp2b-null	hCYP2B6-Tg
AA 14,15-EET	1.281E-05 ± 4.445E-06	3.707E-05 ± 2.216E-05	8.732E-05 ± 2.825E-05	0.0003897 ± 0.0002161
AA 11,12-EET	0.002183 ± 0.0006091	0.006343 ± 0.003742	0.0009780 ± 0.0003435	0.004964 ± 0.002834
AA 9-HETE	0.003868 ± 0.001342	0.01030 ± 0.003904	0.006016 ± 0.001504	0.01118 ± 0.003558
AA 12-HETE	0.0004491 ± 0.0001189	0.002130 ± 0.001214	0.0006437 ± 0.000258	0.002592 ± 0.001547
AA 11,12-DHET	0.01763 ± 0.00509	0.04130 ± 0.02508	0.002351 ± 0.001458	0.01177 ± 0.006342
AA PGE2	0.002081 ± 0.0008876	0.002618 ± 0.001158	0.0004154 ± 0.0004154	0 ± 0
AA PGF2a	0.001286 ± 0.0008909	0.007236 ± 0.003804	0.005866 ± 0.002478	0.02343 ± 0.01314
AA TXB2	0 ± 0	0.0001574 ± 5.767E-05*	0.0002758 ± 0.0001044	0.00140 ± 0.0008361
LA 9-HODE	0.001534 ± 0.0005044	0.004277 ± 0.00226	0.004474 ± 0.001505	0.01805 ± 0.01013
LA 9-HpODE	0.02545 ± 0.002158	0.02385 ± 0.007709	0.02616 ± 0.00340	0.02363 ± 0.004619
LA 13-KODE	0.0005594 ± 0.0001023	0.001398 ± 0.0008135	0.0006725 ± 0.0001771	0.002463 ± 0.001289
LA 9,10-DiHOME	9.070E-05 ± 4.131E-05	0.0002486 ± 0.0001336	0.0003869 ± 0.000138	0.001156 ± 0.0006744
EPA Resolvin	0.003274 ± 0.000697	0.003091 ± 0.0008124	0 ± 0	0 ± 0
ALA 9-HOTrE	0 ± 0	0 ± 0	0 ± 0	0.0004337 ± 0.000286
ALA Isoprostane	0.0001335 ± 5.946E-05	0.0003280 ± 0.000126	0.0008786 ± 0.000269	0.003881 ± 0.002122

Data are presented as mean (ng/μL) ± SEM. Statistical significance was determined by unpaired Student's t-tests (n=5). * indicates a p-value < 0.05 and ** indicates a p-value < 0.01.