

Table S1. Erythrocyte free fatty acids correlations to erythrocyte oxylipins.

	Free Arachidonic Acid		Free Adrenic Acid		Free EPA		Free DHA	
	r	p	r	p	r	p	r	p
Tetranor-PGFM	-0.083	0.706	-0.04	0.858	-0.124	0.574	-0.116	0.599
12-HHTrE	0.274	0.206	0.303	0.16	0.23	0.29	0.238	0.273
11-HETE	0.097	0.66	0.207	0.344	0.145	0.508	0.123	0.578
9-HETE	-0.212	0.33	-0.196	0.371	-0.067	0.76	-0.127	0.564
5-HETE	0.293	0.174	0.333	0.121	0.373	0.08	0.38	0.073
15-HETE	0.184	0.401	0.174	0.427	0.228	0.295	0.209	0.337
5,15-diHETE	0.1	0.65	0.13	0.556	0.119	0.59	0.14	0.523
8-HETE	0.470*	0.024	0.440*	0.036	0.497*	0.016	0.441*	0.035
12-HETE	0.132	0.547	0.191	0.383	0.23	0.291	0.251	0.248
19-HETE	-0.199	0.363	-0.24	0.269	-0.26	0.231	-0.29	0.179
11(12)-EET	0.646**	<0.001	0.610**	0.002	0.567**	0.005	0.517*	0.011
11,12-diHETErE	0.336	0.117	0.418*	0.047	0.25	0.251	0.344	0.108
14(15)-EET	0.442*	0.035	0.430*	0.041	0.348	0.103	0.347	0.105
14,15-diHETrE	0.438*	0.037	0.517*	0.012	0.264	0.224	0.339	0.114
5,6-diHETrE	0.387	0.068	0.481*	0.02	0.335	0.096	0.427*	0.042
9-HEPE	0.265	0.222	0.139	0.528	0.454*	0.029	0.334	0.119
11-HEPE	0.274	0.206	0.297	0.169	0.381	0.073	0.3	0.165
18-HEPE	0.135	0.54	0.143	0.515	0.238	0.275	0.169	0.441
15-HEPE	0.084	0.703	0.111	0.615	0.206	0.346	0.081	0.713
12-HEPE	0.081	0.714	0.031	0.889	0.12	0.585	0.046	0.833
4-HDoHE	0.184	0.4	0.133	0.546	0.335	0.118	0.272	0.209
8-HDoHE	0.2	0.361	0.265	0.222	0.22	0.313	0.239	0.273
16-HDoHE	0.295	0.171	0.356	0.096	0.404	0.056	0.417*	0.048
20-HDoHE	0.203	0.352	0.229	0.292	0.31	0.12	0.346	0.106
13-HDoHE	-0.013	0.953	-0.034	0.878	-0.067	0.762	0.005	0.982
10-HDoHE	0.201	0.953	-0.034	0.878	-0.067	0.762	0.005	0.982
14-HDoHE	0.558**	0.006	0.586**	0.003	0.547**	0.007	0.528**	0.01
16(17)-EpDPE	0.419*	0.047	0.318	0.139	0.554**	0.006	0.501*	0.015
15-HETrE	0.031	0.89	-0.01	0.964	0.108	0.625	0.063	0.774
9-HOTrE	0.435*	0.038	0.453*	0.03	0.462*	0.027	0.444*	0.034
13-HODE	0.093	0.673	0.119	0.59	0.208	0.34	0.186	0.396
9-HODE	0.105	0.634	0.119	0.59	0.208	0.34	0.186	0.396
9-oxoODE	-0.082	0.71	0.075	0.733	-0.011	0.961	-0.07	0.75

9(10)-EpOME	-0.046	0.833	0.024	0.914	0.048	0.83	-0.023	0.918
9,10-diHOME	-0.04	0.858	-0.08	0.717	0.082	0.71	-0.037	0.868
12(13)-EpOME	-0.053	0.809	0.068	0.757	-0.079	0.72	-0.064	0.771
12,13-diHOME	-0.071	0.747	-0.166	0.449	0.033	0.883	-0.124	0.574
Free Arachidonic Acid			0.944**	<0.001	0.940**	<0.001	0.944**	<0.001
Free Adrenic Acid	0.944**	<0.001			0.859**	<0.001	0.908**	<0.001
Free EPA	0.940**	<0.001	0.859**	<0.001			0.944**	<0.001
Free DHA	0.944**	<0.001	0.908**	<0.001	0.944**	<0.001		

* $p<0.05$, ** $p<0.01$, Spearman correlation coefficients and p -values for free fatty acids and oxylipins.

Oxylipins: prostaglandin F Metabolite (PGFM), hydroxyheptadecatrienoic acid (HHTre), hydroxyoctadecatrienoic acid (HOTrE), epoxyoctadecenoic acid (EpOME), dhydroxy-octadecenoic acid (diHOME), hydroxyoctadecadienoic acid (HODE), hydroxyeicosapentaenoic acid (HEPE), hydroxydocosahexaenoic acid (HDoHE), hydroxyeicosatrienoic acid (HETrE), dihydroxyeicosatrienoic acid (di-HEIrE), oxo-octadecadienoic acid (oxoODE), hydroxyeicosatetraenoic acid (HETE), dihydroxyeicosatetraenoic acid (diHETE), epoxy-eicosatrienoic acid (EET), epoxy-docosapentaenoic acid (EpDPE).

Table S2. Erythrocyte free fatty acids(%) correlations to erythrocyte oxylipins.

	Linoleic acid (18:2n-6)		α -linolenic acid (18:3 n-3)		Linoleic acid (20:3 n-6)		Arachidonic acid (20:4 n-6)		Eicosapentaenoic acid (20:5 n-3)		Docosahexaenoic acid (22:6 n-3)	
	r	p	r	p	r	p	r	p	r	p	r	p
Tetranor-PGFM	0.107	0.628	0.193	0.378	-0.208	0.342	0.255	0.24	0.034	0.879	-0.383	0.071
12-HHTrE	-0.364	0.088	0.095	0.666	-0.508*	0.013	0.196	0.37	0.047	0.83	0.014	0.95
11-HETE	-0.114	0.606	0.357	0.095	-0.152	0.488	-0.231	0.288	-0.081	0.713	-0.089	0.687
9-HETE	-0.155	0.48	0.243	0.264	-0.023	0.918	-0.251	0.248	-0.043	0.847	-0.209	0.339
5-HETE	-0.169	0.441	0.289	0.2	-0.102	0.644	-0.329	0.125	-0.024	0.914	0.18	0.412
15-HETE	-0.347	0.105	0.264	0.224	-0.299	0.165	-0.039	0.861	0.031	0.89	-0.01	0.964
5,15-diHETE	0.049	0.832	0.313	0.146	-0.412	0.05	-0.286	0.186	0.28	0.196	0.221	0.312
8-HETE	-0.469*	0.024	0.183	0.403	-0.22	0.314	0.072	0.743	0.272	0.209	0.073	0.74
12-HETE	-0.384	0.07	0.181	0.409	-0.077	0.727	-0.03	0.893	0.187	0.394	-0.076	0.73
19-HETE	0.213	0.329	-0.431*	0.04	0.219	0.315	0.107	0.627	-0.24	0.269	0.069	0.753
11(12)-EET	-0.4	0.058	0.06	0.785	0.001	0.996	0.451*	0.031	0.216	0.321	-0.075	0.73.5
11,12-diHETErE	-0.538*	0.008	-0.099	0.652	-0.234	0.281	0.462*	0.026	*0.02	0.928	0.001	0.996
14(15)-EET	-0.444*	0.034	-0.340	0.158	-0.09	0.682	0.422*	0.045	0.079	0.72	-0.074	0.737
14,15-diHETrE	-0.474*	0.022	-0.182	0.406	-0.048	0.826	0.478*	0.021	-0.148	0.5	-0.125	0.568
5,6-diHETrE	-0.331	0.122	-0.029	0.897	0.246	0.257	-0.027	0.904	-0.148	0.5	-0.125	0.612
9-HEPE	-0.276	0.202	0.445*	0.033	-0.349	0.102	-0.25	0.251	0.529**	0.009	0.306	0.156
11-HEPE	-0.31	0.15	0.191	0.383	-0.408	0.053	-0.312	0.149	0.489*	0.018	0.461*	0.027
18-HEPE	-0.189	0.389	0.26	0.231	-0.33	0.124	-0.326	0.128	0.409	0.053	0.142	0.519
15-HEPE	-0.186	0.396	0.128	0.562	-0.145	0.508	-0.192	0.38	0.094	0.67	0.129	0.559
12-HEPE	-0.274	0.207	0.268	0.215	-0.245	0.259	-0.189	0.388	-0.002	0.995	-0.029	0.869
4-HDoHE	-0.367	0.085	0.393	0.063	-0.525*	0.01	-0.105	0.635	0.475*	0.022	0.197	0.367
8-HDoHE	-0.128	0.56	-0.085	0.699	-0.272	0.209	-0.051	0.819	-0.252	0.247	0.088	0.689
16-HDoHE	-0.420*	0.046	-0.089	0.686	-0.166	0.448	0.106	0.63	0.187	0.092	0.174	0.727
20-HDoHE	-0.420*	0.046	-0.089	0.686	-0.166	0.448	0.106	0.63	0.187	0.092	0.174	0.426
13-HDoHE	0.042	0.848	0.203	0.352	-0.348	0.103	0.007	0.975	0.084	0.704	-0.234	0.283
10-HDoHE	-0.503*	0.014	-0.052	0.815	-0.151	0.492	0.481*	0.02	0.231	0.288	-0.131	0.551
14-HDoHE	-0.439*	0.036	0.085	0.701	-0.269	0.215	0.05	0.822	0.256	0.239	0.222	0.309
16(17)-EpDPE	-0.424*	0.044	0.173	0.43	-0.404	0.056	-0.178	0.417	0.420*	0.046	0.368	0.084
15-HETrE	-0.181	0.409	0.025	0.911	0.016	0.943	-0.055	0.802	-0.166	0.449	-0.073	0.74
9-HOTrE	-0.22	0.312	0.332	0.122	-0.304	0.158	0.004	0.986	0.381	0.073	0.047	0.832
13-HODE	-0.065	0.768	0.486*	0.019	-0.164	0.455	-0.347	0.105	0.021	0.925	-0.048	0.826
9-HODE	-0.11	0.618	0.512*	0.013	-0.089	0.687	-0.193	0.378	0.022	0.922	-0.267	0.218
9-oxoODE	0.114	0.606	0.461*	0.027	0.263	0.226	-0.123	0.578	-0.193	0.378	-0.354	0.098

9(10)-EpOME	0.077	0.727	0.535**	0.009	-0.186	0.396	-0.4	0.058	0.043	0.844	-0.127	0.562
9,10-diHOME	0.378	0.075	0.391	0.065	0.15	0.494	-0.274	0.206	-0.462	0.46	-0.123	0.578
12(13)-EpOME	0.122	0.581	0.373	0.08	0.002	0.993	-0.33	0.124	-0.232	0.286	-0.148	0.5
12,13-diHOME	0.096	0.664	0.570**	0.005	-0.053	0.809	-0.294	0.173	-0.123	0.578	-0.157	0.474
Linoleic acid (18:2n-6)			0.204	0.352	0.202	0.356	-0.430*	0.041	-0.365	0.087	-0.157	0.474
α-linolenic acid (18:3 n-3)	0.204	0.352			0.008	0.971	-0.432*	0.04	0.212	0.33	-0.148	0.5
Linoleic acid (20:3 n-6)	0.202	0.356	0.008	0.971			0.142	0.517	-0.358	0.094	-0.286	0.187
Arachidonic acid (20:4 n-6)	-0.430*	0.041	-0.432*	0.04	0.142	0.517			-0.233	0.284	-0.447*	0.033
Eicosapentaenoic acid (20:5 n-3)	-0.365	0.087	0.212	0.33	-0.358	0.094	-0.233	0.284			0.535**	0.009
Docosahexaenoic acid (22:6 n-3)	-0.157	0.474	-0.148	0.5	-0.286	0.187	-0.447*	0.033	0.535**	0.009		

*p < 0.05, ** p < 0.01, Speam an crxEadian coficients and p-values for freefatty acids and ayipins. Oay lipins:prostaglandin F Metabolite(PGFM), hydrowyheptadecadrinaic acid (HHTe), hy-droayoctadecatrianoic acid (HOTnrE), eponyocdadeccendic acid(EpOME), cdihy droy-octadecanoic acid (dHOME) hy droryoctadecadianoic acid (HODE) iny dronyeicosapeantanoic acid (HEPE), hydroy docosahexanoic ad (HDoHE,hydronyeicosatrienicacid (HETrE),dihydronyeicsa-tiendic acid(d-HET1E), oxo-odtadecadiene acid(axcODE),hydroury eiccsatderanoi (HETE)dtnydrw icsaetraenacacid(diHETE), epooy -eicosatrienc acil (EET), epaxy-docosapentaenoic acid EpDPE). *p < 0.05, ** p < 0.01