

Table S1. Correlations (Pearson's coefficient) between all considered variables. Apelin, resolvin (Rv) D1, malondialdehyde (MDA), polyunsaturated acids (PUFA) n-3, n-6 of testis and semen, final testosterone (T), thiobarbituric reactive substances (TBARS), curvilinear velocity (VCL), motility and PUFAn-3 and n-6 intake (g/d)

		Apelina testis			Resolvin testis			MDA testis			PUFAn-3 testis			PUFAn-6 testis			testosterone			TBARS sperm			PUFAn-3 sperm			PUFAn-6 sperm			VCL			motility			PUFAn-3 intake_g/d			PUFAn-6 intake_g/d		
		CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH	CNT	FLAX	FISH
Apelina testis	Corr	1	1	1	.564	-.847	-.112	-.138	.250	-.503	.461	-.028	-.629	-.727	.007	.464	-.599	.139	-.854	-.046	-.771	-.398	.173	.688	.287	.685	-.308	.691	0.655	0.715	-.583	0.574	-0.323	-.227	-0.380	0.397	0.697	-0.380	0.397	0.697
	Sign				.243	.034	.833	.794	.633	.309	.358	.958	.181	.102	.989	.355	.209	.793	.030	.931	.073	.435	.744	.131	.581	.133	.553	.129	0.158	0.111	.224	0.234	0.532	.665	0.458	0.436	0.124	0.458	0.436	0.124
Resolvin testis	Corr	.564	-.847	-.112	1	1	1	.158	-.400	-.256	-.304	-.475	-.296	-.707	.379	.118	.163	-.506	-.313	-.646	.953	-.237	-.103	-.818	.358	.282	-.097	.482	-0.169	-.864	-.568	0.346	0.496	-.144	0.058	-0.109	0.322	0.058	-0.109	0.322
	Sign	.243	.034	.833				.765	.432	.625	.558	.341	.570	.116	.458	.824	.758	.306	.546	.166	.003	.651	.845	.047	.486	.588	.855	.333	0.749	0.027	.239	0.502	0.317	.786	0.912	0.837	0.534	0.912	0.837	0.534
MDA testis	Corr	-.138	.250	-.503	.158	-.400	-.256	1	1	1	.034	.217	.029	-.154	-.376	-.562	.012	.233	.496	-.281	-.205	.732	-.080	.412	-.479	-.310	.197	-.231	-0.121	0.617	.281	0.220	0.152	.827	.926	-.0273	-0.662	.926	-.0273	-0.662
	Sign	.794	.633	.309	.765	.432	.625				.949	.680	.957	.771	.463	.246	.982	.657	.317	.590	.696	.098	.880	.418	.337	.551	.708	.659	0.819	0.192	.590	0.675	0.774	.042	0.008	0.600	0.152	0.008	0.600	0.152
PUFAn-3 testis	Corr	.461	-.028	-.629	-.304	-.475	-.296	.034	.217	.029	1	1	1	-.146	-.829	.167	-.941	.569	.837	.201	-.548	.392	.170	.521	-.008	.672	.648	-.697	.951	0.432	.541	-0.007	-0.601	-.327	-0.023	-0.331	-0.490	-0.023	-0.331	-0.490
	Sign	.358	.958	.181	.558	.341	.570	.949	.680	.957				.783	.041	.752	.005	.238	.037	.702	.260	.443	.748	.290	.988	.143	.164	.124	0.003	0.392	.268	0.989	0.207	.528	0.965	0.521	0.323	0.965	0.521	0.323
PUFAn-6 testis	Corr	-.727	.007	.464	-.707	.379	.118	-.154	-.376	-.562	-.146	-.829	.167	1	1	1	.108	-.086	-.319	.514	.492	.048	.491	-.363	.794	-.415	-.217	.489	-0.340	-0.259	-.629	-0.355	0.264	-.729	0.053	-0.073	0.285	0.053	-0.073	0.285
	Sign	.102	.989	.355	.116	.458	.824	.771	.463	.246	.783	.041	.752				.839	.872	.538	.297	.321	.928	.322	.479	.059	.413	.680	.325	0.509	0.620	.181	0.490	0.613	.100	0.920	0.891	0.583	0.920	0.891	0.583
testosterone	Corr	-.599	.139	-.854	.163	-.506	-.313	.012	.233	.496	-.941	.569	.837	.108	-.086	-.319	1	1	1	-.299	-.400	.594	-.454	.480	-.439	-.697	.804	-.782	-.913	0.621	.706	-0.196	-0.490	.224	0.107	-0.720	-0.644	0.107	-0.720	-0.644
	Sign	.209	.793	.030	.758	.306	.546	.982	.657	.317	.005	.238	.037	.839	.872	.538				.565	.432	.214	.366	.335	.384	.124	.054	.066	0.011	0.189	.117	0.710	0.323	.670	0.840	0.106	0.168	0.840	0.106	0.168
TBARS	Corr	-.046	-.771	-.398	-.646	.953	-.237	-.281	-.205	.732	.201	-.548	.392	.514	.492	.048	-.299	-.400	.594	1	1	1	.584	-.703	-.186	-.299	.001	-.052	0.225	-0.688	.004	0.407	0.490	.462	-0.421	-0.279	-0.483	-0.421	-0.279	-0.483
	Sign	.931	.073	.435	.166	.003	.651	.590	.696	.098	.702	.260	.443	.297	.321	.928	.565	.432	.214				.223	.119	.725	.564	.998	.922	0.668	0.131	.993	0.423	0.324	.356	0.406	0.592	0.331	0.406	0.592	0.331
PUFAn-3 sperm	Corr	.173	.688	.287	-.103	-.818	.358	-.080	.412	-.479	.170	.521	-.008	.491	-.363	.794	-.454	.480	-.439	.584	-.703	-.186	1	1	1	.060	.368	.418	0.107	.928	-.596	0.402	-0.786	-.761	-0.126	-0.170	0.002	-0.126	-0.170	0.002
	Sign	.744	.131	.581	.845	.047	.486	.880	.418	.337	.748	.290	.988	.322	.479	.059	.366	.335	.384	.223	.119	.725				.910	.472	.409	0.841	0.008	.211	0.430	0.064	.079	0.811	0.747	0.997	0.811	0.747	0.997
PUFAn-6 sperm	Corr	.685	-.308	.691	.282	-.097	.482	-.310	.197	-.231	.672	.648	-.697	-.415	-.217	.489	-.697	.804	-.782	-.299	.001	-.052	.060	.368	.418	1	1	1	0.720	0.388	-.968	-0.169	-0.543	-.017	-0.275	-.921	0.624	-0.275	-.921	0.624
	Sign	.133	.553	.129	.588	.855	.333	.551	.708	.659	.143	.164	.124	.413	.680	.325	.124	.054	.066	.564	.998	.922	.910	.472	.409				0.107	0.447	.002	0.748	0.265	.974	0.598	0.009	0.186	0.598	0.009	0.186
VCL	Corr	0.655	0.715	-.583	-0.169	-.864	-.568	-0.121	0.617	.281	.951	0.432	.541	-0.340	-0.259	-.629	-.913	0.621	.706	0.225	-0.688	.004	0.107	.928	-.596	0.720	0.388	-.968	1	1	1	0.149	-0.569	.180	-0.252	-0.282	-0.523	-0.252	-0.282	-0.523
	Sign	0.158	0.111	.224	0.749	0.027	.239	0.819	0.192	.590	0.003	0.392	.268	0.509	0.620	.181	0.011	0.189	.117	0.668	0.131	.993	0.841	0.008	.211	0.107	0.447	.002				0.778	0.239	.733	0.630	0.588	0.287	0.630	0.588	0.287
motility	Corr	0.574	-0.323	-.227	0.346	0.496	-.144	0.220	0.152	.827	-0.007	-0.601	-.327	-0.355	0.264	-.729	-0.196	-0.490	.224	0.407	0.490	.462	0.402	-0.786	-.761	-0.169	-0.543	-.017	0.149	-0.569	.180	1	1	1	-0.137	0.271	-0.172	-0.137	0.271	-0.172
	Sign	0.234	0.532	.665	0.502	0.317	.786	0.675	0.774	.042	0.989	0.207	.528	0.490	0.613	.100	0.710	0.323	.670	0.423	0.324	.356	0.430	0.064	.079	0.748	0.265	.974	0.778	0.239	.733				0.796	0.603	0.745	0.796	0.603	0.745
PUFAn-3 intake_g/d	Corr	-0.380	0.397	0.697	0.058	-0.109	0.322	.926	-0.273	-0.662	-0.023	-0.331	-0.490	0.053	-0.073	0.285	0.107	-0.720	-0.644	-0.421	-0.279	-0.483	-0.126	-0.170	0.002	-0.275	-.921	0.624	-0.252	-0.282	-0.523	-0.137	0.271	-0.172	1	1	1	1.000	1.000	1.000
	Sign	0.458	0.436	0.124	0.912	0.837	0.534	0.008	0.600	0.152	0.965	0.521	0.323	0.920	0.891	0.583	0.840	0.106	0.168	0.406	0.592	0.331	0.811	0.747	0.997	0.598	0.009	0.186	0.630	0.588	0.287	0.796	0.603	0.745				0.000	0.000	0.000
PUFAn-6 intake_g/d	Corr	-0.380	0.397	0.697	0.058	-0.109	0.322	.926	-0.273	-0.662	-0.023	-0.331	-0.490	0.053	-0.073	0.285	0.107	-0.720	-0.644	-0.421	-0.279	-0.483	-0.126	-0.170	0.002	-0.275	-.921	0.624	-0.252	-0.282	-0.523	-0.137	0.271	-0.172	1.000	1.000	1.000	1	1	1
	Sign	0.458	0.436	0.124	0.912	0.837	0.534	0.008	0.600	0.152	0.965	0.521	0.323	0.920	0.891	0.583	0.840	0.106	0.168	0.406	0.592	0.331	0.811	0.747	0.997	0.598	0.009	0.186	0.630	0.588	0.287	0.796	0.603	0.745	0.000	0.000	0.000			

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).