

**Supplementary Table 2.** Correlation of selected inflammatory parameters and PCDAI with fatty acid composition of plasma lipid classes.

Fatty acid <sup>a</sup>	Phospholipids			Triacylglycerols			Cholesteryl esters		
	FC	CRP	PCDAI	FC	CRP	PCDAI	FC	CRP	PCDAI
14:0	0.234	-0.189	0.128	0.362	-0.147	0.175	0.067	-0.182	-0.105
16:0	0.115	-0.118	0.429	0.438*	-0.383	-0.002	0.008	0.135	0.071
16:In-9	0.165	0.372	0.031	-0.183	0.035	0.100	-0.040	-0.227	-0.218
16:In-7	0.283	0.041	-0.152	-0.034	0.107	-0.112	-0.029	-0.001	-0.117
18:0	-0.001	0.108	0.226	0.124	0.122	0.318	0.005	0.016	-0.030
18:In-9	0.291	0.387	0.644**	-0.054	0.447	0.289	0.057	0.280	0.211
18:In-7	0.168	0.257	0.225	0.064	-0.217	-0.291	-0.033	0.425	0.091
18:2n-6	0.067	-0.094	-0.118	-0.322	-0.189	-0.418	-0.075	-0.369	-0.278
18:3n-6	0.282	0.045	0.111	-0.049	-0.140	-0.209	0.126	-0.043	0.085
18:3n-3	0.262	0.029	0.038	0.054	-0.164	-0.274	0.228	-0.004	0.100
20:2n-6	0.157	-0.225	0.174	-0.161	-0.003	0.070	-0.357	-0.341	-0.210
20:3n-6	-0.101	-0.260	-0.282	-0.363	-0.031	-0.356	-0.113	-0.095	-0.125
20:4n-6	-0.367	-0.014	-0.258	-0.623**	0.003	-0.248	0.068	0.155	0.270
20:5n-3	-0.052	-0.142	-0.477	-0.189	0.054	-0.409	0.254	0.109	0.273
22:4n-6	0.119	-0.027	-0.029	-0.364	0.072	-0.346	-0.321	-0.408	-0.358
22:5n-6	0.279	-0.271	-0.253	-0.365	-0.171	-0.644**	-0.273	-0.353	-0.323
22:5n-3	0.144	0.112	-0.138	-0.296	0.132	-0.385	-0.244	-0.202	-0.241
22:6n-3	0.063	0.024	-0.369	-0.160	-0.088	-0.584**	-0.198	-0.173	-0.115
$\Sigma$ satur	0.045	0.160	0.339	0.427*	-0.312	0.103	0.012	0.103	0.050
$\Sigma$ mono	0.412	0.424*	0.661**	-0.010	0.440	0.287	0.019	0.254	0.156
$\Sigma$ n-6	-0.338	-0.317	-0.459	-0.448*	-0.164	-0.453	-0.015	-0.221	-0.118
$\Sigma$ n-3	0.062	0.056	-0.378	-0.229	-0.128	-0.618**	0.282	0.059	0.136
$\Sigma$ n-6/ $\Sigma$ n-3	-0.111	-0.174	0.275	0.004	0.103	0.471	-0.335	-0.168	-0.230

Only Crohn's disease (CD) group. Spearman rank correlation coefficients: \* p<0.05, \*\* p<0.01, \*\*\* p<0.001.  $\Sigma$  – Sum, <sup>a</sup>/ – shorthand notation of fatty acids- number before colon=number of double bonds; number after n=number of carbon atoms from the methyl end of the chain to the nearest double bond. CRP – C-reactive protein, FC – fecal calprotectin, PCDAI – Paediatric Crohn's Disease Activity Index.