

Table S4 Association of the lipid classes levels with disease activity and inflammatory markers in CD patients

| Lipid classes | CDAI | P value | PLT | P value | hs-CRP | P value | ESR | P value | SES-CD | P value |
|------------------------|----------|---------|---------|---------|----------|---------|----------|---------|---------|---------|
| ChE(20:4)+NH4 | 0.356 | 0.104 | 0.39 | 0.073 | 0.675** | 0.001 | 0.337 | 0.125 | 0.367 | 0.093 |
| PC(32:1)+H | -0.522* | 0.013 | -0.467* | 0.028 | -0.483* | 0.023 | -0.475* | 0.026 | -0.197 | 0.378 |
| PC(33:1)+H | -0.491* | 0.02 | -0.408 | 0.06 | -0.417 | 0.054 | -0.426* | 0.048 | -0.35 | 0.11 |
| PC(34:3)+H | -0.369 | 0.091 | -0.334 | 0.129 | -0.399 | 0.066 | -0.391 | 0.072 | -0.263 | 0.237 |
| PC(34:1)+H | -0.573** | 0.005 | -0.454* | 0.034 | -0.349 | 0.112 | -0.471* | 0.027 | -0.24 | 0.283 |
| PC(36:4)+H | -0.545** | 0.009 | -0.523* | 0.012 | -0.545** | 0.009 | -0.523* | 0.012 | -0.373 | 0.087 |
| PC(36:3)+H | -0.518* | 0.014 | -0.450* | 0.036 | -0.453* | 0.034 | -0.465* | 0.029 | -0.228 | 0.308 |
| PC(36:1)+H | -0.492* | 0.02 | -0.381 | 0.08 | -0.317 | 0.151 | -0.399 | 0.066 | -0.151 | 0.504 |
| LPC(16:0)+H | -0.450* | 0.035 | -0.518* | 0.013 | -0.482* | 0.023 | -0.629** | 0.002 | -0.434* | 0.044 |
| PC(38:7)+H | 0.505* | 0.016 | 0.423* | 0.05 | 0.572** | 0.005 | 0.42 | 0.052 | 0.27 | 0.224 |
| PC(16:0/22:6)+H | -0.493* | 0.02 | -0.442* | 0.04 | -0.465* | 0.029 | -0.461* | 0.031 | -0.169 | 0.452 |
| PC(38:3)+H | -0.500* | 0.018 | -0.408 | 0.059 | -0.423 | 0.05 | -0.431* | 0.045 | -0.154 | 0.493 |
| TG(16:0/14:0/18:2)+NH4 | -0.454* | 0.034 | -0.393 | 0.07 | -0.440* | 0.041 | -0.455* | 0.034 | -0.034 | 0.88 |
| TG(16:0/16:0/16:1)+NH4 | -0.402 | 0.063 | -0.333 | 0.131 | -0.41 | 0.058 | -0.427* | 0.048 | -0.151 | 0.503 |
| TG(16:0/16:0/16:0)+NH4 | -0.381 | 0.08 | -0.395 | 0.068 | -0.476* | 0.025 | -0.486* | 0.022 | -0.24 | 0.281 |
| PC(40:6)+H | -0.482* | 0.023 | -0.430* | 0.046 | -0.444* | 0.038 | -0.442* | 0.039 | -0.175 | 0.436 |
| TG(16:0/16:1/18:1)+NH4 | -0.512* | 0.015 | -0.429* | 0.047 | -0.379 | 0.082 | -0.416 | 0.054 | -0.074 | 0.745 |
| TG(16:0/16:0/18:1)+NH4 | -0.445* | 0.038 | -0.346 | 0.114 | -0.417 | 0.053 | -0.442* | 0.04 | -0.194 | 0.388 |
| TG(18:0/16:0/16:0)+NH4 | -0.388 | 0.074 | -0.361 | 0.099 | -0.448* | 0.036 | -0.452* | 0.035 | -0.229 | 0.305 |

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|------------------------|----------|-------|---------|-------|----------|-------|----------|-------|---------|-------|
| TG(16:0/17:1/18:1)+NH4 | -0.445* | 0.038 | -0.329 | 0.135 | -0.378 | 0.082 | -0.393 | 0.07 | -0.253 | 0.255 |
| LPC(16:1)+HCOO | -0.511* | 0.015 | -0.480* | 0.024 | -0.510* | 0.015 | -0.505* | 0.017 | -0.274 | 0.217 |
| LPC(16:0)+HCOO | -0.455* | 0.033 | -0.510* | 0.015 | -0.465* | 0.029 | -0.636** | 0.001 | -0.461* | 0.031 |
| PE(16:1/18:1)-H | -0.502* | 0.017 | -0.488* | 0.021 | -0.428* | 0.047 | -0.38 | 0.081 | -0.356 | 0.104 |
| PE(16:0/20:4)-H | -0.422 | 0.05 | -0.436* | 0.043 | -0.415 | 0.055 | -0.4 | 0.065 | -0.262 | 0.239 |
| PE(18:1/18:2)-H | -0.431* | 0.045 | -0.493* | 0.02 | -0.529* | 0.011 | -0.372 | 0.088 | -0.396 | 0.068 |
| PC(14:0/18:2)+HCOO | -0.531* | 0.011 | -0.452* | 0.035 | -0.475* | 0.026 | -0.473* | 0.026 | -0.312 | 0.158 |
| PC(16:0/16:1)+HCOO | -0.525* | 0.012 | -0.462* | 0.03 | -0.484* | 0.022 | -0.483* | 0.023 | -0.204 | 0.362 |
| PC(17:1/16:0)+HCOO | -0.489* | 0.021 | -0.395 | 0.069 | -0.41 | 0.058 | -0.422 | 0.051 | -0.344 | 0.117 |
| PC(16:0/18:1)+HCOO | -0.575** | 0.005 | -0.447* | 0.037 | -0.357 | 0.103 | -0.480* | 0.024 | -0.261 | 0.24 |
| PI(16:0/16:1)-H | -0.513* | 0.015 | -0.443* | 0.039 | -0.485* | 0.022 | -0.497* | 0.019 | -0.181 | 0.419 |
| PC(18:2/18:2)+HCOO | -0.515* | 0.014 | -0.517* | 0.014 | -0.555** | 0.007 | -0.524* | 0.012 | -0.367 | 0.093 |
| PS(39:2)-H | -0.509* | 0.016 | -0.438* | 0.041 | -0.461* | 0.031 | -0.463* | 0.03 | -0.221 | 0.323 |
| PC(18:0/18:1)+HCOO | -0.487* | 0.021 | -0.37 | 0.09 | -0.314 | 0.155 | -0.4 | 0.065 | -0.139 | 0.536 |
| PI(16:0/18:1)-H | -0.534* | 0.01 | -0.408 | 0.06 | -0.479* | 0.024 | -0.499* | 0.018 | -0.237 | 0.288 |
| PC(18:0/20:2)+HCOO | -0.505* | 0.016 | -0.392 | 0.071 | -0.368 | 0.092 | -0.388 | 0.074 | -0.152 | 0.501 |
| PI(16:0/20:3)-H | -0.517* | 0.014 | -0.419 | 0.053 | -0.460* | 0.031 | -0.490* | 0.021 | -0.269 | 0.226 |
| MGDG(43:10)-H | -0.521* | 0.013 | -0.315 | 0.153 | -0.481* | 0.023 | -0.465* | 0.029 | -0.331 | 0.132 |

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|-----------------|---------|-------|--------|-------|-------|-------|--------|-------|--------|------|
| PI(18:0/20:3)-H | -0.468* | 0.028 | -0.372 | 0.088 | -0.39 | 0.073 | -0.393 | 0.071 | -0.273 | 0.22 |
|-----------------|---------|-------|--------|-------|-------|-------|--------|-------|--------|------|

*, P<0.05; **, P<0.01. CD, Crohn's disease; CDAI, Crohn's Disease Activity Index; ChE, cholesterol ester; ESR, erythrocyte sedimentation rate; hs-CRP, high-sensitivity C-reactive protein; LPC, lysophosphatidylcholine; MGDG, monogalactosyldiacylglycerol; PC, phosphatidylcholine; PE, phosphatidylethanolamine; PI, phosphatidylinositol; PLT, platelet; PS, phosphatidylserine; SES-CD, simple endoscopic score for CD; TG, triglyceride.