

Supplemental Tables

Supplemental Table 1 Spearman correlation between serum percentage of specific fatty acids in the experimental groups with IR-related parameters.

| | BWG | WAT | FBG | FINS | HOMA -IR | IL-1 β | IL-6 | TNF- α | FFA |
|---------------|----------|----------|----------|---------|-------------|--------------|---------|---------------|----------|
| Phylum | | | | | | | | | |
| C16:0 | 0.364* | -0.097 | 0.115 | 0.450* | 0.489* | 0.377* | 0.481* | 0.337* | 0.377* |
| C18:0 | 0.417** | 0.471** | 0.466* | 0.146 | 0.474** | 0.680** | 0.670** | 0.642** | 0.631** |
| C18:1n-9 | 0.026 | -0.120 | -0.034 | -0.060 | -0.072 | 0.217 | 0.240 | 0.157 | 0.007 |
| C18:2n-6 | 0.543** | 0.501* | 0.509* | 0.359* | 0.585** | 0.620** | 0.565** | 0.470** | 0.525** |
| C18:3n-3 | -0.510** | -0.203 | -0.248* | -0.485* | -0.543** | - | - | - | -0.404** |
| | | | | | | 0.465** | 0.402** | 0.470** | |
| C20:5n-3 | -0.330 | -0.428** | -0.466** | -0.027 | -0.368** | -0.467* | -0.343* | - | -0.377* |
| | | | | | | | | 0.530** | |
| C22:6n-3 | -0.513** | -0.567** | -0.531** | - | -0.459** | -0.545* | - | - | -0.642** |
| | | | | 0.478** | | | 0.481** | 0.528** | |
| XMYA | - | - | - | - | - | - | - | - | - |

Note: The data shows the Spearman correlation coefficient between the levels of gut microbiota with IR-related parameters. * $p < 0.05$, ** $p < 0.01$