

# **Supplementary Materials: Changes in Composition and Function of Human Intestinal Microbiota Exposed to Chlorpyrifos in Oil as Assessed by the SHIME® Model**

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**Table S1.** Concentration of SCFA and L- and D- lactate in the colon as whole measured for the control time point (D0) and during the treatment period (D15, D30).

| System                       | Target                                             | Primers and Probe     | Sequences (5'–3')                        |
|------------------------------|----------------------------------------------------|-----------------------|------------------------------------------|
| Taqman System                | All bacteria                                       | F-Bact 1369 R         | CGGTGAATACGTTCCCGG                       |
|                              |                                                    | Prok1492              | TACGGCTACCTTGTTACGACTT                   |
|                              |                                                    | P-TM1389F             | 6 FAM -CTTGTACACACCGCCCGTC               |
|                              | <i>C. leptum</i> group                             | F-Clept09             | CCTTCCGTGCCGSAGTTA                       |
|                              |                                                    | R-Clept 08            | GAATTAAACCACATACTCCACTGCTT               |
|                              |                                                    | P-Clep 01             | 6 FAM-CACAATAAGTAATCCACC                 |
|                              | <i>C. coccoides</i> group                          | F-Ccoc07              | GACGCCGCGTGAAGGA                         |
|                              |                                                    | R-Ccoc14              | AGCCCCAGCCTTTTCACATC                     |
|                              |                                                    | P-Erec482             | VIC- CGGTACCTGACTAAGAAG                  |
|                              | <i>Bacteroides/Prevotella</i> group                | F-Bacter11            | CCTWCGATGGATAGTGGTT                      |
|                              |                                                    | R-Bacter 08           | CACGCTACTTGGCTGGTTCAG                    |
|                              |                                                    | P-Bac303              | VIC-AAGGTCCCCCACATTG                     |
| <i>Bifidobacterium</i> group | F-Bifid 09c                                        | CGGGTGAGTAATGCGTGACC  |                                          |
|                              | R-Bifid 06                                         | TGATAGGACGCGACCCCA    |                                          |
|                              | P-Bifid                                            | 6 FAM-CTCCTGGAACGGGTG |                                          |
| Sybergreen System            | <i>Lactobacillus/Leuconostoc/Pediococcus</i> group | F-lacto 05            | AGCAGTAGGGAATCTTCCA                      |
|                              |                                                    | R-Lacto 04            | CGCCACTGGTGTTCTYTCCATATA                 |
|                              | <i>Escherichia coli</i> species                    | F-Ecoli F             | CATGCCGCGTGTATGAAGAA                     |
| R-Ecoli R                    |                                                    | CGGGTAACGTCAATGAGCAAA |                                          |
| <i>Target</i>                |                                                    | Primers               | Sequences (5'–3')                        |
| TTGE PCR                     | <i>All bacteria</i>                                | Bact 968-GC-f         | CGCCCCGGGGCGCGCCCCGGGCGGGGCGGGGGCACGGGGG |
|                              |                                                    | Bact 1401-r           | GAACGCGAAGAACCTTAC                       |
|                              | <i>Bifidobacteria</i>                              | Bif 164-f             | GCGTGTGTACAAGACCC                        |
|                              |                                                    | Bif 662-GC-r          | GGGTGGTAATGCCGGATG                       |
|                              |                                                    |                       | CGCCCCGCCGCGCGCGGGCGGGGCGGGGGCACGGGGG    |
|                              |                                                    |                       | GCCACCGTTACACCGGGAA                      |