

Table S5. Significant influences of the *S. Typhimurium* infection on the microbiota composition. W, Wilcoxon Rank Sum Test; F, Fisher's Exact Test; n, number of mice harboring species; SD, standard deviation; WD, Westernized diet; PD, plant-based diet.

| Family level (WD) | | | | | | | | |
|---------------------------|--------------------|--------------------|----------------------|----|--------|----------|----|--------|
| Family | <i>p</i> value (W) | <i>p</i> value (F) | streptomycin treated | | | infected | | |
| | | | mean [%] | n | SD [%] | mean [%] | n | SD [%] |
| <i>Coriobacteriaceae</i> | 0.00 | | 7.39 | 9 | 4.30 | 4.41 | 10 | 2.49 |
| <i>Deferribacteraceae</i> | | 0.02 | 23.94 | 11 | 24.12 | 1.79 | 5 | 2.57 |
| <i>Enterobacteriaceae</i> | | 0.00 | 0.43 | 1 | 1.13 | 58.05 | 11 | 19.47 |
| <i>Lachnospiraceae</i> | | 0.00 | 2.32 | 8 | 3.38 | 0.12 | 0 | 0.06 |
| <i>Ruminococcaceae</i> | | 0.00 | 2.11 | 9 | 1.74 | 0.23 | 1 | 0.19 |

| Family level (PD) | | | | | | | | |
|---------------------------|--------------------|--------------------|----------------------|---|--------|----------|----|--------|
| Family | <i>p</i> value (W) | <i>p</i> value (F) | streptomycin treated | | | infected | | |
| | | | mean [%] | n | SD [%] | mean [%] | n | SD [%] |
| <i>Coriobacteriaceae</i> | 0.13 | | 7.68 | 7 | 5.03 | 2.23 | 8 | 2.45 |
| <i>Enterobacteriaceae</i> | | 0.01 | 9.96 | 2 | 20.75 | 47.51 | 10 | 28.55 |
| <i>Lachnospiraceae</i> | | 0.01 | 2.34 | 6 | 3.90 | 0.89 | 1 | 2.52 |
| <i>Ruminococcaceae</i> | | 0.01 | 2.66 | 6 | 2.15 | 0.69 | 1 | 2.01 |