Table S5: Significant differences in the relative abundances of *Bacteroidetes* and *Firmicutes* between cages (no other phyla were found to be significantly different).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***Bacteroidetes*** | | | | ***Firmicutes*** | | | |
| **Cage comparison:** | **Week 5** | **Week 7** | **Week 10** | **Week 14** | **Week 5** | **Week 7** | **Week 10** | **Week 14** |
| Cage 1 vs. Cage 2 |  |  |  |  |  |  |  |  |
| Cage 1 vs. Cage 3 | \*\*\* | \* |  |  | \*\*\* | \* |  |  |
| Cage 1 vs. Cage 4 |  | \*\* |  | \*\* | \* | \*\* |  | \* |
| Cage 1 vs. Cage 5 |  | \*\*\* |  |  |  | \*\*\* |  |  |
| Cage 1 vs. Cage 6 |  | \*\*\* |  |  |  | \*\*\* |  |  |
| Cage 2 vs. Cage 3 | \*\*\* |  |  |  | \*\*\* |  |  |  |
| Cage 2 vs. Cage 4 | \* | \*\* |  | \* | \* | \*\* |  | \* |
| Cage 2 vs. Cage 5 |  | \*\*\* |  |  |  | \*\*\* |  |  |
| Cage 2 vs. Cage 6 |  | \*\*\* |  |  |  | \*\*\* |  |  |
| Cage 3 vs. Cage 4 |  |  |  | \* |  |  |  | \* |
| Cage 3 vs. Cage 5 | \*\* |  |  |  | \*\* |  |  |  |
| Cage 3 vs. Cage 6 | \*\*\* | \* |  |  | \*\*\* | \* |  |  |
| Cage 4 vs. Cage 5 |  |  |  | \*\* |  |  |  | \*\* |
| Cage 4 vs. Cage 6 | \* |  |  | \* |  |  |  | \* |
| Cage 5 vs. Cage 6 |  |  |  |  |  |  |  |  |

**Level of significance: \* P < 0.05; \*\* P < 0.01; \*\*\* P < 0.001. Difference between means of cages assessed using one-way ANOVA, followed by Tukey-Kramer multiple comparisons test.**