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.**