|  |  |  |
| --- | --- | --- |
| **All****(n = 559)** | **All D0****(n = 243)** | **All D28****(n = 202)** |
| *Mycoplasma*33.78 ± 1.23 | *Moraxella*35.88 ± 1.54 | *Mycoplasma*43.66 ± 1.90 |
| *Moraxella*30.26 ± 1.14 | *Mycoplasma*16.52 ± 1.39 | *Moraxella*26.14 ± 2.01 |
| *Mannheimia*6.28 ± 1.45 | *Mannheimia*9.61 ± 0.81 | *Histophilus*4.68 ± 0.69 |
| *Faucicola*4.08 ± 0.52 | *Faucicola*7.27 ± 1.04 | *Mannheimia*3.80 ± 0.62 |
| *Histophilus*2.88 ± 0.34 | un. Moraxellaceae4.67 ± 0.73 | *Ureaplasma*3.23 ± 0.32 |
| *Ureaplasma*2.48 ± 0.20 | un. Microbacteriaceae2.05 ± 0.42 | *Filobacterium*1.94 ± 0.39 |
| un. Moraxellaceae2.29 ± 0.34 | *Filobacterium*1.92 ± 0.24 | *Pasteurella*1.52 ± 0.40 |
| *Filobacterium*1.64 ± 0.18 | un. Neisseriaceae1.68 ± 0.37 | un. Microbacteriaceae1.48 ± 0.45 |
| un. Microbacteriaceae1.47 ± 0.25 | *Bergeyella*1.67 ± 0.24 | *Faucicola*1.38 ± 0.47 |
| *Pasteurella*1.05 ± 0.17 | *Streptococcus*1.51 ± 0.19 |  |
|  | un. Lactobacillales1.42 ± 0.22 |  |
|  | *Deinococcus*1.21 ± 0.38 |  |

**Table S4.** Mean relative abundance plus or minus the standard error of the mean of taxonomic genera representing > 1.0% of the overall microbial community.