**Supplementary Table S2.** Mean relative abundances of bacterial phyla in ruminal samples of sheep when fed a concentrate with different doses of spent coffee grounds

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Phylum** | **Treatmenta** | | | | **SEM** | **P-value** | |
|  | **Control** | **3** | **5** | **10** |  | **Linear** | **Quadratic** |
| Bacteroidetes1 | 68.5 | 71.4 | 71.0 | 63.4 | 7.54 | 0.106 | 0.078 |
| Firmicutes1 | 24.0 | 22.7 | 23.0 | 30.3 | 6.74 | 0.038 | 0.116 |
| Fibrobacteres2 | -2.85 | -2.78 | -2.34 | -2.51 | 1.020 | 0.431 | 0.588 |
| Spirochaetes3 | 1.34 | 1.47 | 1.48 | 1.75 | 0.467 | 0.072 | 0.837 |
| Tenericutes2 | -2.27 | -1.70 | -1.21 | -1.20 | 0.939 | 0.023 | 0.215 |
| Verrucomicrobia2 | -0.028 | -0.230 | -0.407 | -0.895 | 0.4832 | <0.001 | 0.739 |
| Proteobacteria4 | 0.880 | 1.25 | 1.44 | 1.54 | 0.5030 | 0.011 | 0.246 |
| Synergistetes2 | -4.38 | -4.24 | -5.30 | -4.81 | 0.807 | 0.143 | 0.255 |
| Elusimicrobia3 | 0.312 | 0.306 | 0.286 | 0.251 | 0.0928 | 0.150 | 0.808 |
| Actinobacteria2 | -1.21 | -1.70 | -1.59 | -1.57 | 0.592 | 0.345 | 0.193 |
| Cyanobacteria3 | 0.242 | 0.192 | 0.197 | 0.149 | 0.0450 | <0.001 | 0.595 |
| TM74 | 11.9 | 15.7 | 14.7 | 16.6 | 4.93 | 0.093 | 0.500 |
| Lentisphaerae2 | -0.201 | -0.511 | -0.595 | -1.18 | 0.6472 | 0.003 | 0.826 |

aControl concentrate; 3, 5 and 10, treatment groups supplemented with 30 g/kg, 50g/kg and 100 g/kg of spent coffee grounds in the concentrate, respectively; 1Untransformed data; 2Ln transformation; 3 square root transformation; 4 reciprocal transformation; SEM: standard error of the mean