**Supplementary Table 1.** Significant correlations (q<0.05) at day 26 between colon lactate concentrations and colonic gut microbiota members (genus level) among piglets born prematurely. FDR: false discovery rate.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Phylum | Class | Order | Family | Genus | *q* (FDR corrected) | r2 | Abundance (mean, %) |
| Firmicutes | Bacilli | Lactobacillales | Enterococcaceae | *Enterococcus* | 4.4×10-6 | 0.79 | 3.79 |
| Firmicutes | Bacilli | Lactobacillales | Enterococcaceae | Other | 2.3×10-5 | 0.76 | 0.02 |
| Firmicutes | Bacilli | Lactobacillales | Lactobacillaceae | *Lactobacillus* | 0.03 | 0.57 | 11.8 |
| Firmicutes | Bacilli | Lactobacillales | Other | Other | 1.3×10-4 | 0.72 | 0.15 |
| Firmicutes | Clostridia | Clostridiales | Lachnospiraceae | *Roseburia* | 2.9×10-3 | 0.60 | 0.05 |