|  |  |  |  |
| --- | --- | --- | --- |
|  | Host uptake flux | | |
|  | Acetate | Propionate | Butyrate |
| *SCFA transport* |  |  |  |
| Mct-1 | NS | NS | NS |
| Smct-1 | NS | NS | NS |
|  |  |  |  |
| *Gluconeogenesis* |  |  |  |
| Pepck | p<0.05 r=-0.590 | p<0.05 r=-0.592 | p<0.05 r=-0.581 |
| G6Pase | p<0.05 r=-0.666 | p<0.05 r=-0.630 | p<0.05 r=-0.660 |
| PC | p<0.05 r=-0.449 | p<0.05 r=-0.420 | p<0.05 r=-0.444 |
|  |  |  |  |
| *Glycolysis* |  |  |  |
| HK | p<0.05 r=0.618 | p<0.05 r=0.634 | p<0.05 r=0.629 |
| PK | p<0.05 r=0.523 | p<0.05 r=0.553 | p<0.05 r=0.534 |
|  |  |  |  |
| *Fatty acid synthesis* |  |  |  |
| Fasn | p<0.05 r=-0.558 | p<0.05 r=-0.521 | p<0.05 r=-0.574 |
| Acc1 | p<0.05 r=-0.483 | p<0.05 r=-0.446 | p<0.05 r=-0.473 |
| Acc2 | p<0.05 r=-0.516 | p<0.05 r=-0.538 | p<0.05 r=-0.542 |
| Elovl6 | p<0.05 r=-0.431 | p<0.05 r=-0.411 | p<0.05 r=-0.439 |
|  |  |  |  |
| *Fatty acid oxidation* |  |  |  |
| Cpt-1a | NS | NS | NS |
| Mcad | NS | NS | NS |
| Lcad | NS | NS | NS |
| Aox | NS | NS | NS |

**Table S2.** Correlation of acetate, propionate and butyrate host uptake fluxes with genes involved in SCFA transport, gluconeogenesis, glycolysis, fatty acid synthesis and fatty acid oxidation. The Spearman’s correlation coefficient was calculated and the significance level was set at p<0.05.

NS, not significant.