

Table S6 Intra-Facility taxonomy statistics

| Ednrb mice - HSCR Dataset | | | | | Mean Relative Abundance | Kruskal- Wallis | Pairwise Wilcoxon |
|------------------------------|-------|--------|--------|------------------------|-------------------------------|--------------------|----------------------|
| Association | | | Rank | Taxon | | <i>FDR-P</i> | <i>FDR-P</i> |
| Facility | Type | Group | | | | | |
| Boston | Colon | P20-KO | Family | Enterobacteriaceae | 7% | 0.03 | NS |
| | Fecal | P07-WT | Phylum | Firmicutes | 99.9% | NS | 0.04 |
| | | P20-KO | Phylum | Bacteroidetes | 60% | NS | 0.04 |
| | | | Family | S24-7 | 60% | NS | 0.04 |
| Laramie | Fecal | P20-KO | Phylum | Proteobacteria | 6% | NS | 0.03 |
| | | | Family | Enterobacteriaceae | 6% | NS | 0.04 |
| | | P24-KO | Family | Enterobacteriaceae | 11% | NS | 0.049 |
| | | | Genus | <i>Bacteroides</i> | 39% | NS | 0.046 |
| | | | Genus | <i>Parabacteroides</i> | 22% | 0.03 | NS |
| | | | | | | | |
| | | P20-WT | Family | S24-7 | 20% | NS | 0.04 |
| | | P24-WT | Family | S24-7 | 26% | NS | 0.04 |

Only those taxa with mean relative abundances above 6% and that exhibited significant differences between age-matched Boston or Laramie mice are shown.