

Table S4 Inter-Facility taxonomy statistics

Ednrb mice - HSCR Dataset						Mean Relative Abundance	Kruskal-Wallis	Pairwise Wilcoxon		
Association										
Facility	Group	Type	Rank	Taxon		FDR-P	FDR-P			
Boston	P07-WT	Colon	Phylum	Firmicutes	89%	0.01	NS			
		Fecal	Phylum	Firmicutes	99.9%	0.03	NS			
	P20-WT	Colon	Phylum	Firmicutes	73%	0.047	NS			
			Family	Ruminococcaceae	6%	0.048	NS			
			Genus	Oscillospira	9%	0.01	0.046			
	P07-KO	Colon	Phylum	Firmicutes	98.7%	0.01	NS			
		Fecal	Phylum	Firmicutes	98.1%	0.04	NS			
	P20-KO	Colon	Family	S24-7	42%	NS	0.04			
		Fecal	Order	Clostridiales	17%	NS	0.047			
			Family	S24-7	60%	0.04	0.04			
Laramie	P07-WT	Colon	Phylum	Actinobacteria	19%	0.01	NS			
			Phylum	Proteobacteria	46%	0.02	NS			
			Family	Enterobacteriaceae	35%	0.01	NS			
			Genus	Propionibacterium	11%	0.002	0.04			
		Fecal	Phylum	Actinobacteria	9%	0.002	0.046			
			Phylum	Proteobacteria	50%	0.001	NS			
			Family	Enterobacteriaceae	44%	0.002	0.04			
			P20-WT	Colon	Order	Bacteroidales	12%	0.00	0.02	
	Genus	Bacteroides			25%	0.01	0.02			
	Genus	Parabacteroides			9%	0.01	0.02			
	Fecal	Phylum		Bacteroidetes	79%	NS	0.03			
		Order		Bacteroidales-1	11%	0.003	0.03			
		Order		Bacteroidales-2	7%	0.003	0.03			
		Genus		Bacteroides	32%	0.004	0.03			
		Genus		Parabacteroides	8%	0.004	0.03			
	P24-WT	Colon	Genus	Bacteroides	20%	0.02	0.04			
		Fecal	Order	Bacteroidales	9%	0.04	NS			
	P07-KO	Colon	Phylum	Actinobacteria	7%	0.02	NS			
			Phylum	Proteobacteria	58%	0.02	NS			
			Family	Enterobacteriaceae	54%	0.01	NS			
			Fecal	Phylum	Proteobacteria	55%	0.02	NS		
		Family		Enterobacteriaceae	54%	0.02	0.047			
		P20-KO		Colon	Phylum	Bacteroidetes	77%	NS	0.04	
					Order	Bacteroidales-1	14%	0.003	0.02	
			Order		Bacteroidales-2	8%	0.003	0.02		
	Genus		Bacteroides		34%	0.01	0.02			
	Genus		Parabacteroides		7%	0.01	0.02			
	Fecal		Phylum		Bacteroidetes	85%	NS	0.03		
			Order	Bacteroidales-1	12%	0.003	0.03			
	P24-KO		Colon	Order	Bacteroidales-2	7%	0.003	0.03		
		Genus		Bacteroides	48%	0.001	0.03			
			Genus	Parabacteroides	7%	0.002	0.03			
			Genus	Bacteroides	37%	0.01	NS			
			Genus	Parabacteroides	14%	0.02	NS			
			Genus	Bacteroides	39%	0.02	NS			
			Genus	Parabacteroides	22%	0.01	NS			
C57BL/6J mice										
Boston		Fecal	Phylum	Bacteroidetes	76%	0.03	0.03			
Laramie		Fecal	Phylum	Firmicutes	39%	0.01	0.01			

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