

**Table S3. Related to Fig 2B. Changes in relative fecal abundances of bacterial taxa in WT mice**

This table lists the corresponding OTUs for the Venn Diagram in Figure 2B and 2C.

Estimate indicates the difference in the least square means of log10 normalized counts of OTUs between:

a) high vs low iron diet (negative = OTU decreased in the high iron diet; positive = OTU increased in the high iron diet),

b) control vs high iron diet (negative = OTU decreased in the control diet; positive = OTU increased in the control diet),

c) control vs low iron diet (negative = OTU decreased in the control diet; positive = OTU increased in control diet).

Comparison	OTU ID	Estimate high vs low	Estimate control vs high	Estimate control vs low
Increased in high vs low iron diet	Consensus5	0.74		
	Consensus216	0.76		
	Consensus53	0.97		
	Consensus309	1.07		
	Consensus301	1.34		
	Consensus88	1.38		
	Consensus192	1.56		
	Consensus89	1.63		
	Consensus95	1.68		
	Consensus13	1.96		
	Consensus104	2.04		
	Consensus57	2.47		
	Consensus39	2.71		
Increased in high vs control iron diet	Consensus293		-1.13	
	Consensus300		-1.03	
	Consensus234		-0.83	
	Consensus2		-0.56	
Increased in control vs low iron diet	Consensus131			1.13
	Consensus151			1.24
	Consensus230			1.35
	Consensus32			1.35
	Consensus25			1.42
	Consensus105			1.56
	Consensus236			1.61
Increased in high vs low iron diet AND high vs control	Consensus73			1.70
	Consensus295	1.31	-0.73	
	Consensus244	1.57	-1.08	
	Consensus168	1.47	-1.22	
	Consensus83	1.92	-1.74	
	Consensus52	2.33	-1.91	
	Consensus17	2.60	-1.56	
	Consensus44	2.63	-1.66	
	Consensus40	2.72	-2.28	

	Consensus47	2.95	-1.66	
	Consensus8	4.02	-3.01	
	Consensus10	3.93	-2.93	
	Consensus35	3.07	-2.54	
Increased in high vs low iron diet AND control vs low diet	Consensus215	1.43		1.00
	Consensus164	1.48		1.04
	Consensus229	1.52		1.49
	Consensus224	1.53		0.84
	Consensus186	1.53		1.60
	Consensus306	1.58		1.33
	Consensus59	1.66		1.83
	Consensus112	1.79		1.49
	Consensus18	2.83		2.39
	Consensus31	3.05		2.47
Increased in high vs low iron diet AND	Consensus54	2.48	-1.43	1.06
	Consensus4	3.36	-1.64	1.72

#### Related to Figure 2C.

	OTU ID	Estimate high vs low	Estimate control vs high	Estimate control vs low
Decreased in high vs low iron diet	Consensus38	-2.00		
Decreased in high vs control iron diet	Consensus7		0.97	
	Consensus131		0.99	
	Consensus151		1.15	
	Consensus32		1.24	
	Consensus25		1.55	
	Consensus230		1.69	
Decreased in control vs low iron diet	Consensus236		2.00	
	Consensus20			-2.22
	Consensus293			-1.21
Decreased in high vs low iron diet AND high vs control	Consensus2			-0.70
	Consensus24	-2.41	1.42	
	Consensus11	-2.39	1.95	
Decreased in high vs low iron diet AND control vs low	Consensus15	-1.44	1.70	
	Consensus9	-3.56		-2.15
Decreased in high vs low iron diet AND high vs control	Consensus6	-4.44	2.48	-1.96
	Consensus85	-3.31	1.50	-1.81
	Consensus21	-3.00	1.68	-1.31