## Differences in the Stool Microbiome Before and After Colorectal Cancer Treatment

Marc A Sze, Nielson T Baxter, Mack T Ruffin IV, Mary AM Rogers, and Patrick D Schloss

Supplemental

Table S1: P-values of Differences between Initial and Follow Up Samples for Richness, Shannon Diversity, and Evenness.

Comparison	Alpha Metric	P-value	BH Adjusted P-value
adn	sobs	0.2615199	0.2942099
adn	shannon	0.2221074	0.2942099
adn	evenness	0.2347622	0.2942099
srn	sobs	0.1231880	0.2217384
srn	shannon	0.0204124	0.0774651
srn	evenness	0.0258217	0.0774651
crc	sobs	0.5822250	0.5822250
crc	shannon	0.0890290	0.2003153
crc	evenness	0.0072909	0.0656181

**Table S2: Summary of Common OTUs for All Diagnosis Groups** 

	Lowest Taxonomic	Adenoma Median	Advanced Adenoma	Carcinoma Median
OTU	ID	MDA	Median MDA	MDA
OTU15	Lachnospiraceae	3.04	1.82	1.91
OTU12	Clostridiales	2.70	2.20	1.63
OTU6	Bacteroides	2.64	1.98	1.98
OTU4	Anaerostipes	2.62	1.71	2.02
OTU5	Bacteroides	2.56	1.85	1.98
OTU9	Blautia	2.48	1.64	1.62
OTU61	Ruminococcaceae	2.47	1.57	1.79
OTU13	Blautia	2.46	1.90	1.78
OTU14	Clostridiales	2.44	1.74	1.63
OTU37	Streptococcus	2.38	1.83	2.27
OTU3	Blautia	2.37	1.67	1.78
OTU58	Lachnospiraceae	2.35	1.72	1.69
OTU1	Bacteroides	2.34	1.73	2.06
OTU10	Roseburia	2.34	1.55	1.84
OTU20	Faecalibacterium	2.34	1.55	1.62
OTU59	Bacteroides	2.25	1.68	1.73
OTU16	Dorea	2.23	1.66	1.63
OTU2	Anaerostipes	2.23	1.57	1.69
OTU41	Clostridium_XI	2.22	1.67	1.80
OTU85	Dorea	2.09	1.46	1.84
OTU290	Clostridium_IV	2.08	1.45	1.56
OTU36	Lachnospiraceae	2.06	1.54	1.52
OTU26	Collinsella	2.03	1.51	1.94
OTU28	Ruminococcus	2.00	1.49	1.53
OTU605	Blautia	1.98	1.42	1.36
OTU1307	' Coprobacillus	1.03	0.93	1.50

Table S3: Summary of Comparisons based on Chemotherapy or Radiation Received

		Additive					
	Additive	Treatment	Removal	Additive	Removal		ВН
Variable	Treatment	Mean	Mean	Treatment SD	SD	P-value	Corrected
Richness	Chemotherapy	-5.15	-12.29	93.58	1e+02	5.9e-01	7.1e-01
Richness	Radiation	-14.22	-10.52	36.51	1e+02	5.9e-01	7.1e-01
Shannon	Chemotherapy	0.23	0.06	0.55	6e-01	1.8e-01	2.7e-01
Shannon	Radiation	0.17	0.09	0.26	6e-01	1.8e-01	2.7e-01
Evenness	Chemotherapy	0.04	0.02	0.08	8e-02	1.6e-01	2.7e-01
Evenness	Radiation	0.03	0.02	0.05	8e-02	1.6e-01	2.7e-01
Thetayc	Chemotherapy	0.69	0.66	0.20	2e-01	8.5e-01	8.5e-01
Thetayc	Radiation	0.71	0.67	0.26	2e-01	8.5e-01	8.5e-01
Positive	Chemotherapy	0.09	0.01	0.11	9e-02	3.3e-02	1.0e-01
Probability							
Positive	Radiation	0.12	0.02	0.15	9e-02	3.3e-02	1.0e-01
Probability							
Positive	Chemotherapy	0.71	0.65	0.04	5e-02	1.3e-04	7.9e-04
Probability							
Positive	Radiation	0.72	0.66	0.04	6e-02	1.3e-04	7.9e-04
Probability							

Table S4: Summary of Adenoma based on Surgery Received

		No		No	
	Surgery	Surgery	Surgery	Surgery	ВН
Variable	Mean	Mean	SD	SD	P-value Corrected
Richness	1e+02	-4e+01	138.9	1e+02	5.6e-03 3.3e-02
Shannon	6e-01	-1e-01	0.9	4e-01	4.5e-02 1.4e-01
Evenness	6e-02	-9e-03	0.1	5e-02	1.0e-01 2.1e-01
Thetayc	7e-01	6e-01	0.2	2e-01	4.1e-01 5.6e-01
Adenoma Only					
Positive Probability	2e-02	1e-03	0.2	7e-02	9.0e-01 9.0e-01
SRN Only					
Positive Probablity	-9e-03	4e-02	0.1	8e-02	4.7e-01 5.6e-01