

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

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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
Adenoma	richness	0.2615199	0.2942099
Adenoma	shannon	0.2221074	0.2942099
Adenoma	evenness	0.2347622	0.2942099
Advanced Adenoma	richness	0.1231880	0.2217384
Advanced Adenoma	shannon	0.0204124	0.0774651
Advanced Adenoma	evenness	0.0258217	0.0774651
Carcinoma	richness	0.5822250	0.5822250
Carcinoma	shannon	0.0890290	0.2003153
Carcinoma	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 Additive Treatment Received (Chemotherapy or Chemotherapy and Radiation)**

Variable	Additive Treatment Mean	Removal Mean	Additive Treatment SD	Removal SD	P-value	BH Corrected
Richness	-5.15	-32.99	93.58	111.2	4.9e-01	1
Shannon	0.23	0.26	0.55	0.7	7.4e-01	1
Evenness	0.04	0.06	0.08	0.1	1.0e+00	1
Thetayc	0.79	0.77	0.17	0.1	5.3e-01	1
Positive Probability	0.12	0.10	0.21	0.1	8.4e-01	1

**Table S4: Summary of Adenoma based on Surgery Received**

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