

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
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 OTUs in Adenoma, Advanced Adenoma, and Carcinoma Models

OTU	Lowest Taxonomic ID	Adenoma Model MDA	SRN Model MDA	Carcinoma Model MDA
Otu0000015	Clostridiales	3.041968	1.8180504	1.911064
Otu0000012	Bacteroides	2.696589	2.1983685	1.627039
Otu0000006	Ruminococcaceae	2.640413	1.9810437	1.981424
Otu0000004	Blautia	2.616936	1.7064582	2.017512
Otu0000005	Anaerostipes	2.559397	1.8487225	1.984175
Otu0000009	Lachnospiraceae	2.475412	1.6421141	1.624362
Otu0000061	Anaerostipes	2.465404	1.5670809	1.786782
Otu0000013	Roseburia	2.460082	1.8998363	1.781257
Otu0000014	Clostridium_IV	2.442776	1.7442751	1.631920
Otu0000037	Clostridiales	2.380908	1.8260457	2.270322
Otu0000003	Clostridium_XI	2.374540	1.6702635	1.778629
Otu0000058	Bacteroides	2.349425	1.7156720	1.686434
Otu0000010	Blautia	2.343460	1.5518310	1.838269
Otu0000001	Lachnospiraceae	2.340546	1.7259761	2.057028
Otu0000020	Collinsella	2.336806	1.5495197	1.618113
Otu0000059	Ruminococcus	2.249638	1.6753030	1.728867
Otu0000016	Blautia	2.234038	1.6601572	1.627565

OTU	Lowest Taxonomic ID	Adenoma Model MDA	SRN Model MDA	Carcinoma Model MDA
Otu000002	Lachnospiraceae	2.230950	1.5690813	1.690690
Otu000041	Streptococcus	2.220707	1.6672832	1.796574
Otu000085	Bacteroides	2.093834	1.4642671	1.836815
Otu000290	Dorea	2.084194	1.4543894	1.564207
Otu000036	Dorea	2.058146	1.5404110	1.524025
Otu000026	Blautia	2.030799	1.5056659	1.944173
Otu000028	Coprobacillus	1.996705	1.4903721	1.528249
Otu000605	Faecalibacterium	1.982990	1.4212318	1.360702
Otu001307	Bacteroides	1.030555	0.9290894	1.504201

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

Variable	Additive		Removal		Additive		Removal		BH	
	Treatment	Treatment Mean	Mean	SD	Treatment	Treatment SD	SD	P-value	Corrected	
sobs	Chemotherapy	-5.15	-12.29	93.58	1e+02	5.9e-01	7.1e-01			
sobs	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

Variable	Surgery		No Surgery		P-value	BH Corrected
	Mean	Mean	SD	SD		
sobs	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 Probability	-9e-03	4e-02	0.1	8e-02	4.7e-01	5.6e-01