

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
lesion	sobs	0.4294106	0.6550031
lesion	shannon	0.5549842	0.6550031
lesion	evenness	0.1412681	0.4238043
adn	sobs	0.6909558	0.6909558
adn	shannon	0.4962226	0.6550031
adn	evenness	0.5378507	0.6550031
crc	sobs	0.5822250	0.6550031
crc	shannon	0.0890290	0.4006306
crc	evenness	0.0072909	0.0656181

Table S2: Summary of OTUs in both Lesion and Initial/Follow Up Models

OTU	Lowest Taxonomic ID	Lesion Model MDA	Initial Model MDA
Otu000015	Streptococcus	4.323392	0.7163762
Otu000012	Ruminococcus	3.917561	0.6544392
Otu000005	Ruminococcaceae	3.792958	0.7326571
Otu000061	Anaerostipes	3.419642	0.9401123
Otu000018	Clostridiales	3.302180	0.8190262
Otu000006	Bacteroides	3.298042	0.7960879
Otu000037	Escherichia/Shigella	3.071224	0.9017647
Otu000028	Bacteroides	3.038881	0.9112176
Otu000004	Anaerostipes	2.771088	0.8490138
Otu000009	Blautia	2.705763	0.7158940
Otu000075	Lachnospiraceae	2.681709	0.6259446
Otu000605	Streptococcus	2.666216	0.6601937
Otu000002	Phascolarctobacterium	2.630789	0.6973535
Otu000013	Clostridium_XI	2.622895	0.6970018
Otu000014	Lachnospiraceae	2.587336	0.7782453
Otu000030	Anaerostipes	2.556025	0.7057347
Otu000167	Blautia	2.532294	0.5763692
Otu000041	Bacteroides	2.516030	0.6784079
Otu000001	Ruminococcaceae	2.435308	0.9048253
Otu000025	Ruminococcus	2.329045	0.6658976
Otu000008	Blautia	2.100196	0.6418416
Otu000042	Bifidobacterium	2.069116	0.6251153
Otu000177	Clostridiales	2.052260	0.8395583

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

Variable Tested	Treatment	P-value	BH Corrected P-value
Positive Probability	Chemotherapy	1.341e-01	0.364419
Positive Probability	Chemotherapy	1.383e-01	0.364419
Positive Probability	Chemotherapy	3.184e-04	0.002547
Positive Probability	Chemotherapy	7.722e-05	0.001236
Positive Probability	Radiation	9.420e-01	0.942046
Positive Probability	Radiation	7.344e-01	0.903895
Positive Probability	Radiation	9.514e-03	0.050740
Positive Probability	Radiation	2.829e-02	0.113177
Thetayc	Chemotherapy	9.188e-01	0.942046
Thetayc	Radiation	6.279e-01	0.837227
Sobs	Chemotherapy	5.947e-01	0.837227
Shannon	Chemotherapy	1.822e-01	0.364419
Evenness	Chemotherapy	1.628e-01	0.364419
Sobs	Radiation	9.334e-01	0.942046
Shannon	Radiation	3.838e-01	0.682366
Evenness	Radiation	4.965e-01	0.794421