

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	Anaerostipes	4.749411	0.7342620
Otu000006	Blautia	4.004671	0.8124998
Otu000061	Bacteroides	3.938754	0.9090068
Otu000005	Ruminococcus	3.759063	0.7485388
Otu000004	Collinsella	3.710266	0.8403637
Otu000058	Faecalibacterium	3.693178	0.6764208
Otu000018	Ruminococcaceae	3.651454	0.8432880
Otu000001	Roseburia	3.627399	0.9493613
Otu000037	Roseburia	3.612381	0.8905661
Otu000014	Ruminococcaceae	3.463134	0.7600457
Otu000010	Escherichia/Shigella	3.440272	0.8503705
Otu000013	Streptococcus	3.430315	0.6954449
Otu000002	Faecalibacterium	3.393844	0.6779158
Otu000007	Blautia	3.349713	0.7652515
Otu000009	Bacteroides	3.314681	0.7102074
Otu000003	Roseburia	3.308582	0.7094481
Otu000020	Lachnospiraceae	3.296764	0.7812310
Otu000040	Blautia	3.213801	0.9582915
Otu000084	Anaerostipes	3.146415	0.6561690
Otu000026	Bacteroides	3.099604	0.9000035
Otu000041	Clostridiales	3.098968	0.6728631
Otu000059	Ruminococcus	3.078183	0.7190440
Otu000109	Clostridiales	3.062303	0.7107204
Otu000108	Bacteroides	3.031357	0.7637155

OTU	Lowest Taxonomic ID	Lesion Model MDA	Initial Model MDA
Otu000016	Blautia	3.031011	0.6952266
Otu000085	Blautia	3.027084	0.6717972
Otu000148	Bacteroides	2.938932	0.9272185
Otu000180	Lachnospiraceae	2.903063	0.7038127
Otu000028	Lachnospiraceae	2.814039	0.9395611
Otu000025	Dorea	2.787955	0.6563795
Otu000605	Clostridium_XI	2.529424	0.6223713
Otu000167	Dorea	2.372671	0.6050109

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

Variable Tested	Treatment	P-value	BH Corrected P-value
Positive Probability	Chemotherapy	0.0091511	0.036604
Positive Probability	Chemotherapy	0.0333166	0.088844
Positive Probability	Chemotherapy	0.0006355	0.005084
Positive Probability	Chemotherapy	0.0001309	0.002095
Positive Probability	Radiation	0.0815484	0.163097
Positive Probability	Radiation	0.0754788	0.163097
Positive Probability	Radiation	0.0089848	0.036604
Positive Probability	Radiation	0.0213082	0.068186
Thetayc	Chemotherapy	0.9187938	0.933448
Thetayc	Radiation	0.6279206	0.717624
Sobs	Chemotherapy	0.5946906	0.717624
Shannon	Chemotherapy	0.1822094	0.291535
Evenness	Chemotherapy	0.1628138	0.289447
Sobs	Radiation	0.9334483	0.933448
Shannon	Radiation	0.3838308	0.558299
Evenness	Radiation	0.4965131	0.662017