# Normalization of the microbiota in patients after treatment for colonic lesions

**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**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| OTU | Lowest Taxonomic ID | Adenoma Median MDA | Advanced Adenoma Median MDA | Carcinoma Median MDA | NA |
| Otu000015 | Lachnospiraceae | OTU15 | 1.24 | 0.40 | 0.54 |
| Otu000012 | Clostridiales | OTU12 | 1.14 | 1.20 | 0.35 |
| Otu000605 | Blautia | OTU605 | 0.82 | 0.52 | 0.39 |
| Otu000006 | Bacteroides | OTU6 | 0.78 | 0.57 | 0.62 |
| Otu000061 | Ruminococcaceae | OTU61 | 0.74 | 0.29 | 0.54 |
| Otu000005 | Bacteroides | OTU5 | 0.72 | 0.47 | 0.56 |
| Otu000044 | Clostridium XlVa | OTU44 | 0.66 | 0.80 | 0.32 |
| Otu000058 | Lachnospiraceae | OTU58 | 0.65 | 0.44 | 0.42 |
| Otu000013 | Blautia | OTU13 | 0.63 | 0.49 | 0.43 |
| Otu000004 | Anaerostipes | OTU4 | 0.63 | 0.32 | 0.62 |
| Otu000009 | Blautia | OTU9 | 0.62 | 0.30 | 0.34 |
| Otu000037 | Streptococcus | OTU37 | 0.60 | 0.53 | 1.02 |
| Otu000014 | Clostridiales | OTU14 | 0.60 | 0.38 | 0.35 |
| Otu000002 | Anaerostipes | OTU2 | 0.54 | 0.31 | 0.46 |
| Otu000010 | Roseburia | OTU10 | 0.51 | 0.27 | 0.50 |
| Otu000028 | Ruminococcus | OTU28 | 0.49 | 0.42 | 0.35 |
| Otu000290 | Clostridium IV | OTU290 | 0.49 | 0.30 | 0.38 |
| Otu000001 | Bacteroides | OTU1 | 0.47 | 0.37 | 0.66 |
| Otu001307 | Coprobacillus | OTU1307 | 0.46 | 0.38 | 0.89 |
| Otu000041 | Clostridium XI | OTU41 | 0.46 | 0.34 | 0.43 |
| Otu000003 | Blautia | OTU3 | 0.46 | 0.31 | 0.39 |
| Otu000020 | Faecalibacterium | OTU20 | 0.46 | 0.28 | 0.33 |
| Otu000059 | Bacteroides | OTU59 | 0.45 | 0.42 | 0.40 |
| Otu000016 | Dorea | OTU16 | 0.44 | 0.36 | 0.37 |
| Otu000085 | Dorea | OTU85 | 0.41 | 0.27 | 0.59 |
| Otu000026 | Collinsella | OTU26 | 0.39 | 0.33 | 0.76 |
| Otu000036 | Lachnospiraceae | OTU36 | 0.39 | 0.27 | 0.35 |
| Otu000030 | Phascolarctobacterium | OTU30 | 0.39 | 0.25 | 0.31 |

**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 | -14.22 | -32.99 | 93.58 | 111.2 | 6.6e-01 | 9.2e-01 |
| Shannon | 0.17 | 0.26 | 0.55 | 0.7 | 9.2e-01 | 9.2e-01 |
| Evenness | 0.03 | 0.06 | 0.08 | 0.1 | 8.6e-01 | 9.2e-01 |
| Thetayc | 0.80 | 0.72 | 0.11 | 0.2 | 1.1e-01 | 3.7e-01 |
| Positive Probability | 0.04 | 0.11 | 0.19 | 0.1 | 1.5e-01 | 3.7e-01 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | Surgery Mean | No Surgery Mean | Surgery SD | No Surgery SD | P-value | BH 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 | 1.3e-01 |
| Evenness | 6e-02 | -9e-03 | 0.1 | 5e-02 | 1.0e-01 | 1.6e-01 |
| Thetayc | 6e-01 | 6e-01 | 0.2 | 2e-01 | 5.7e-01 | 6.9e-01 |
| Adenoma Only |
| Positive Probability | 1e-01 | 1e-02 | 0.1 | 1e-01 | 6.6e-02 | 1.3e-01 |
| Advanced Adenoma Only |
| Positive Probablity | 3e-02 | 5e-02 | 0.1 | 1e-01 | 8.0e-01 | 8.0e-01 |