# The effect of treatment on the microbiota of patients diagnosed with 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 |
| 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 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 | 1.4e-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 |
| Advanced Adenoma Only |
| Positive Probablity | -9e-03 | 4e-02 | 0.1 | 8e-02 | 4.7e-01 | 5.6e-01 |