**S3 Table: Bacterial species showing differences between pre-chemotherapy and post-chemotherapy before tumor induction**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Phylum** | **Class** | **Order** | **Family** | **Genus** | **Species** | **t-test *p*-value** |
|  Verrucomicrobia |  Verrucomicrobiae |  Verrucomicrobiales |  Verrucomicrobiaceae |  Akkermansia |  muciniphila | 0.231524898 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Bacteroidaceae |  Bacteroides |   | 0.296162894 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Bacteroidaceae |  Bacteroides |  uniformis | 0.438868304 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Bacteroidaceae |  Bacteroides |  eggerthii | 0.726922466 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Bacteroidaceae |  Bacteroides |   | 0.951736232 |
|  Firmicutes |  Clostridia |  Clostridiales |  Lachnospiraceae |  Blautia |   | 0.758744088 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Bacteroidaceae |  Bacteroides |  caccae | 0.086998351 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Bacteroidaceae |  Bacteroides |   | 0.469726453 |
|  Firmicutes |  Clostridia |  Clostridiales |  Lachnospiraceae |   |   | 0.174378041 |
|  Firmicutes |  Erysipelotrichi |  Erysipelotrichales |  Erysipelotrichaceae |   |   | 0.270739996 |
|  Firmicutes |  Bacilli |  Lactobacillales |  Lactobacillaceae |  Lactobacillus |   | 0.823327352 |
|  Firmicutes |  Bacilli |  Turicibacterales |  Turicibacteraceae |  Turicibacter |   | 0.963887207 |
|  Firmicutes |  Clostridia |  Clostridiales |  Lachnospiraceae |  Blautia |  producta | 0.93187326 |
|  Firmicutes |  Clostridia |  Clostridiales |  Ruminococcaceae |   |   | 0.186955031 |
|  Proteobacteria |  Betaproteobacteria |  Burkholderiales |  Alcaligenaceae |  Sutterella |   | 0.396391393 |
|  Firmicutes |  Clostridia |  Clostridiales |  Lachnospiraceae |   |   | 0.554496188 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  [Odoribacteraceae] |  Butyricimonas |   | 0.202416359 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Bacteroidaceae |  Bacteroides |  ovatus | 0.276627527 |
|  Firmicutes |  Clostridia |  Clostridiales |  Lachnospiraceae |   |   | 0.523812316 |
|  Bacteroidetes |  Bacteroidia |  Bacteroidales |  Porphyromonadaceae |  Parabacteroides |   | 0.420669295 |
|  Firmicutes |  Clostridia |  Clostridiales |  Veillonellaceae |  Phascolarctobacterium |   | 0.552324535 |
|  Firmicutes |  Clostridia |  Clostridiales |  Clostridiaceae |   |   | 0.250962233 |
|  Verrucomicrobia |  Verrucomicrobiae |  Verrucomicrobiales |  Verrucomicrobiaceae |  Akkermansia |  muciniphila | 0.206390964 |
|  Firmicutes |  Clostridia |  Clostridiales |  Lachnospiraceae |  Clostridium |  citroniae | 0.728289166 |
|  Firmicutes |  Clostridia |  Clostridiales |  Lachnospiraceae |  Dorea |   | 0.183006098 |