**Table S2**. Amplicon sequence variants (ASVs) affected by purple potato extract (PPE).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Feature ID | HPP association | Intercept | HF:HF.LPS | HPP:HF.LPS | LPP:HF.LPS | NC:HF.LPS | Taxon |
| 71631708afe8b5aac1a193c439cc0fca | Positive | -2.65 | 2.52 | 2.85 | 1.66 | -0.57 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| c5dcfa3a1104c030d0125b361560e99c | Positive | -2.36 | 2.10 | 2.55 | 2.03 | -0.76 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Ruminococcaceae; g\_\_Oscillospira; s\_\_ |
| 133a7efdc3769be1f4c55969a92fb080 | Positive | -2.18 | 1.71 | 2.12 | 1.67 | 2.55 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Bacteroidaceae; g\_\_Bacteroides; s\_\_acidifaciens |
| f4163469b264f0ca8bbdbc317524acc2 | Positive | -1.79 | 1.39 | 1.99 | 1.17 | 2.42 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Bacteroidaceae; g\_\_Bacteroides; s\_\_acidifaciens |
| b951e76d4120e97a7c07769d37e5a9ee | Positive | -1.61 | 1.56 | 1.67 | 1.27 | 2.33 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Bacteroidaceae; g\_\_Bacteroides; s\_\_acidifaciens |
| 8f1ae87bb757145791d10d66ede3c83f | Positive | -0.20 | 0.23 | 1.55 | 0.73 | 1.37 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_S24-7; g\_\_; s\_\_ |
| 444b412e1ec7a99d17138b27c87c854f | Positive | -0.84 | 0.74 | 1.54 | -2.99 | -1.78 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Ruminococcaceae; g\_\_Oscillospira; s\_\_ |
| 6866a27d8cf4778e69d2dfdc371ef3db | Positive | -0.88 | 0.57 | 1.42 | 0.71 | -1.74 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Porphyromonadaceae; g\_\_Parabacteroides; s\_\_ |
| a8c3bf3b69aa48eac4625e49527d473f | Positive | -0.93 | 1.46 | 1.39 | 2.04 | 2.96 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 71fa38fa5ea4a78969fda060d1f37330 | Positive | -0.20 | 0.11 | 1.39 | 0.99 | 1.75 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Ruminococcaceae; g\_\_Oscillospira; s\_\_ |
| 0a58500173e6185ee356131be3bbd5b7 | Positive | -0.71 | 0.61 | 1.12 | 0.24 | -1.87 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Porphyromonadaceae; g\_\_Parabacteroides; s\_\_ |
| 211c2fba6635d5d934fa8829fa135d66 | Positive | -1.14 | -0.63 | 1.10 | 1.13 | 2.97 | k\_\_Bacteria; p\_\_Verrucomicrobia; c\_\_Verrucomicrobiae; o\_\_Verrucomicrobiales; f\_\_Verrucomicrobiaceae; g\_\_Akkermansia; s\_\_muciniphila |
| 9e79148d0673e3b5498e9eabed17b05d | Positive | -0.77 | 0.74 | 1.08 | 0.69 | -1.81 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Ruminococcaceae; g\_\_Oscillospira; s\_\_ |
| 544fba6eea8f2cc9aea675c196c9a667 | Positive | -0.23 | 0.37 | 1.04 | -3.47 | -2.23 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Ruminococcaceae; g\_\_Oscillospira; s\_\_ |
| 95e7c96e876f0d0177206d2343d21871 | Positive | -0.67 | 0.28 | 1.01 | 1.78 | 1.39 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Ruminococcaceae; g\_\_Oscillospira; s\_\_ |
| fcab34ec414745cde5d77adfdeec0fd7 | Negative | 0.07 | 0.36 | -1.26 | -3.72 | -2.47 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 598cd115a105eec4661e9d625ce71c4b | Negative | 0.26 | -0.07 | -1.30 | 0.58 | -2.59 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Lachnospiraceae; g\_\_[Ruminococcus]; s\_\_gnavus |
| 54397ae1ecbc58a451d5f12d5e53df18 | Negative | -0.10 | -0.04 | -1.37 | 0.18 | -2.31 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_Lachnospiraceae; g\_\_[Ruminococcus]; s\_\_gnavus |
| 1529b81166077566275aaed15373e3cd | Negative | 1.51 | -0.43 | -1.38 | -1.56 | 0.49 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_; g\_\_; s\_\_ |
| 9d40a3e7eb6851dee5cd93cff3d618ac | Negative | 0.29 | -0.22 | -1.52 | -0.70 | -2.62 | k\_\_Bacteria; p\_\_Firmicutes; c\_\_Clostridia; o\_\_Clostridiales; f\_\_; g\_\_; s\_\_ |
| 9d83a77e2f9a9ee8fda65d903d054ab5 | Negative | 0.44 | -0.19 | -1.54 | 0.52 | -2.74 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 75c8d268d81e0af20d9aced5ff8205fe | Negative | 0.24 | -0.31 | -1.58 | -0.07 | 0.17 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 643a4f8b72624c7d570f0ea19f3a4726 | Negative | 1.46 | -0.42 | -1.63 | -1.97 | 0.46 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_; g\_\_; s\_\_ |
| d50c78768c181c0eb3026adcb8a9fd27 | Negative | 0.42 | -0.24 | -1.89 | 0.56 | 0.21 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| d89d961ac3c6ba605da9a28514e0cd39 | Negative | -0.03 | 0.35 | -1.93 | -0.76 | 0.11 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 1a7d0d08971c15023c7d79a692a34e73 | Negative | 0.44 | 0.33 | -1.97 | -4.02 | -2.75 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 24d3627a2179c4839d059a7e783c4fe7 | Negative | -0.10 | 0.35 | -3.92 | -3.57 | 0.52 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 43f171f679af0f8edf671f1a6595f0c8 | Negative | -0.03 | 0.38 | -3.97 | -3.63 | 0.45 | k\_\_Bacteria; p\_\_Bacteroidetes; c\_\_Bacteroidia; o\_\_Bacteroidales; f\_\_Rikenellaceae; g\_\_; s\_\_ |
| 30b6f37c8ec504a1d7cedf594ebdfc85 | Negative | 0.08 | 0.32 | -4.08 | -3.73 | 1.19 |  |
| b231cf81932306c689f553df475106e3 | Negative | 0.45 | 0.07 | -4.40 | -4.04 | -2.77 |  |
|  |  |  |  |  |  |  |  |