

File Name: Supplementary Data 1

Description: Samples and metadata

File Name: Supplementary Data 2

Description: 16S reads matrix, read values of 0 removed

File Name: Supplementary Data 3

Description: WGS reads matrix, read values of 0 removed

File Name: Supplementary Data 4

Description: RNA-seq reads matrix, read values of 0 removed

File Name: Supplementary Data 5

Description: Beta-diversity intra-class correlation associations between lung and tumor tissues sequenced using two or more of 16S, WGS, and RNA-seq, sampling depth at 250 reads. P-values are unadjusted for multiple testing.

File Name: Supplementary Data 6

Description: Differential abundance results at the genus level using 16S data, including both ANCOM and ALDEx2 results

File Name: Supplementary Data 7

Description: Differential abundance results at the genus level using RNA data, including both ANCOM and ALDEx2 results

File Name: Supplementary Data 8

Description: Differential abundance results at the species level using RNA data, including both ANCOM and ALDEx2 results

File Name: Supplementary Data 9

Description: Genomic features associated against microbiome features

File Name: Supplementary Data 10

Description: Literature-based contaminant list