

File name: Supplementary Data 1

Description: Orthologue clusters conserved across all four E. coli genomes

File name: Supplementary Data 2

Description: Orthologue clusters conserved across all four Klebsiella pneumoniae species complex genomes

File name: Supplementary Data 3

Description: Orthologue clusters conserved across all four S. aureus genomes

File name: Supplementary Data 4

Description: Orthologue clusters conserved across all four S. pyogenes genomes

File name: Supplementary Data 5

Description: Orthologue clusters conserved across all 20 genomes

File name: Supplementary Data 6

Description: Non-redundant list of gene ontology terms associated with 125 conserved orthologue clusters

File name: Supplementary Data 7

Description: Differential expression analysis of transcriptomics data. This data can also be viewed as an interactive webpage [here](#).

File name: Supplementary Data 8

Description: Gene-set enrichment analysis using GO terms and KEGG metabolic pathways. This data can also be viewed as an interactive webpage [here](#).

File name: Supplementary Data 9

Description: Fold-change values for all features detected in proteomics data across all strains.

File name: Supplementary Data 10

Description: Fold-change values for all features detected in metabolomics data across all strains.

File name: Supplementary Data 11

Description: Demographic, assembly and genome characteristic information, and accession numbers for omic datasets for isolates investigated in this study

File name: Supplementary Data 12

Description: Percentage of the proteins accurately quantified for isolates investigated in this study