Week\_12

Sara Cifuentes

2022-06-08

*Escherichia coli* strain detection and characterization on fecal samples

The method used to identify and characterize ***E. coli* strains** in fecal samples was taken and modified from [PanPhlAn 3.](https://github.com/SegataLab/panphlan)

*“PanPhlAn is a strain-level metagenomic profiling tool for identifying the gene composition of individual strains in metagenomic samples.”*[[1]](#footnote-1) PanPhlAn is a tool for culture-free microbial population studies based on metagenomic data and it does not require genome assembly.

Graphs

1. Integrating taxonomic, functional, and strain-level profiling of diverse microbial communities with bioBakery 3 Francesco Beghini, Lauren J McIver, Aitor Blanco-Miguez, Leonard Dubois, Francesco Asnicar, Sagun Maharjan, Ana Mailyan, Andrew Maltez Thomas, Paolo Manghi, Matthias Scholz, Mireia Valles-Colomer, George Weingart, Yancong Zhang, Moreno Zolfo, Curtis Huttenhower, Eric A Franzosa, Nicola Segata. eLife (2021) [↑](#footnote-ref-1)