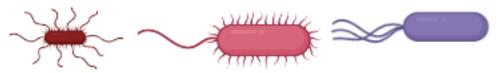
Protein-protein interaction data



4,445 potential samples from StringDB Quality control

4,363 samples with valid PPI data

Find matching genes

3,023 detected plasmid-encoded genes -0000---0000---0000---000--

Get genes & samples with PPIs

489 samples with 1+ plasmid-related PPIs 3,023 plasmid-encoded genes with 1+ PPIs

Quantify per sample

Plasmid-associated & chromosomal genes & PPIs

Quantify per protein

Dimensionality reduction: PCA, LSA, NMF Rates of PPIs per protein & per sample Effects plasmid-related genes on PPI networks TDA on indirect connections to get aPMNLE



27,939 plasmids from Brooks et al (2019)

6,642 plasmids from PLSDB

Select those with between 2 and 649 valid genes



16,393 unique plasmids

8,941 unique plasmid-encoded genes



5,918 plasmid-related

3,870 samples with no

plasmid-related PPIs

genes not present

-0-0-0-0-
