Enrichment and propagation of metagenomic experimental metadata

BioHackathon 2018 Paris

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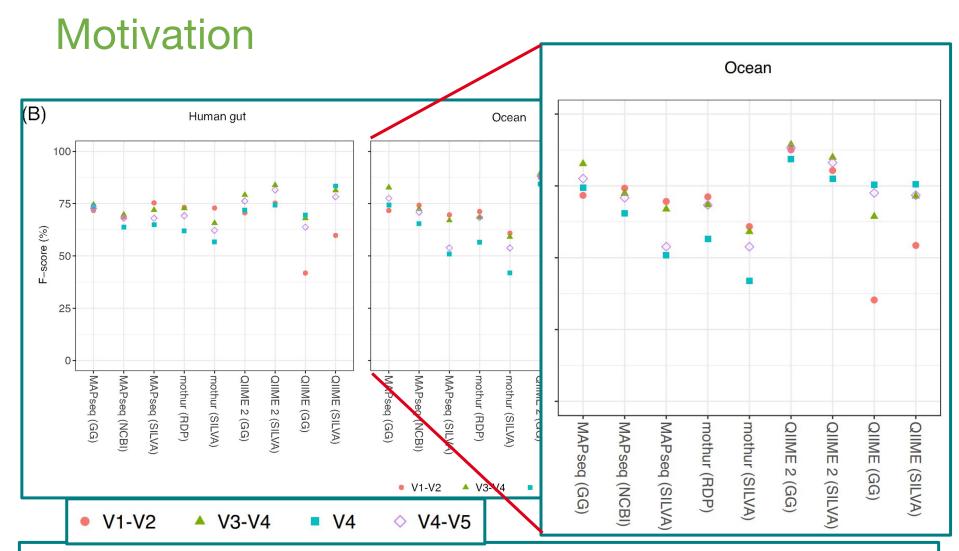
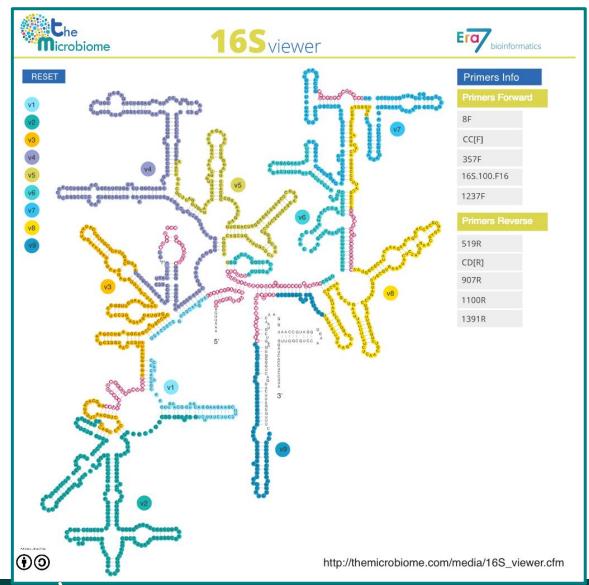


Fig. B: *F-scores calculated for some of the most commonly tested sub-regions of the 16S rRNA gene: V1-V2, V3-V4, V4, and V4-V5.*





Variable regions of the 16S ribosomal RNA of E.coli



- bacterial 16S
 ribosomal RNA genes
 contain nine
 "hypervariable regions"
 (V1 V9)
- We've chosen E.coli as a representative for Bacteria -> well described

Yang B, Wang Y, Qian PY BMC Bioinformatics 2016 doi: 10.1186/s12859-016-0992-y





Goal

- 1. New **tool** to infer amplified SSU rRNA variable region, based on sequence analysis by MGnify
 - statistical analyses and machine learning algorithms to process analysis results from MGnify resource

- 2. **Pipeline** to push this data to the various archiving resources, such as ENA and BioSamples.
 - representatives of the relevant resources





Who can help us?

- Statistical Data Analysts
- Machine Learning Experts

