INTTEGRATIVE META-OMICS IN GALAXY

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Introduction

Individually, the different meta-omics technologies can provide great insight into a microbial community. However, in combination, they can provide a detailed understanding of how organisms occupy specific metabolic niches, how they interact, and how they utilize environmental nutrients.

Metagenomics

Dataset

The sample studied in this work originated from a thermophilic biogas plant operated on municipal food waste and manure. After a round in a lab-scale reactor, we performed a serial dilution to extinction experiment to simplify and enrich the community for growth on cellulose (Norwegian Spruce).

Metatranscriptomics

Metaproteomics

Integration

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