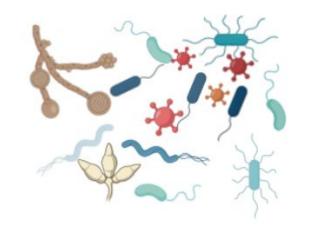
# MetaPhlan3

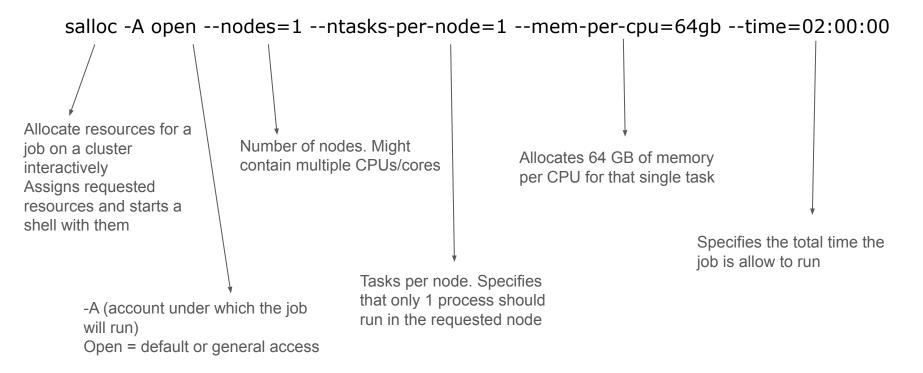
MetaPhlAn is a computational tool for profiling the **composition** of microbial communities (Bacteria, Archaea and Eukaryotes) from metagenomic shotgun sequencing data (**not 16S**) with species-level.

MetaPhIAn relies on unique clade-specific marker genes identified from ~17,000 reference genomes

- ~13,500 bacterial and archaeal
- ~3,500 viral
- ~110 eukaryotic



### Installation



### Installation

conda create --name mpa -c bioconda metaphlan

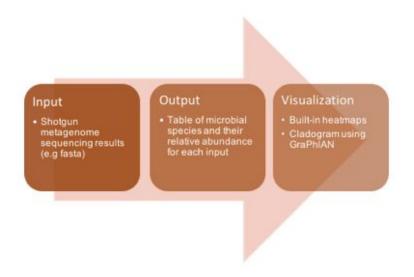
conda create --name mpa -c conda-forge -c bioconda python=3.7 metaphlan

conda activate mpa

#### metaphlan -h

```
usage: metaphlan --input_type {fastq,fasta,bowtie2out,sam} [--force]
             [--bowtie2db METAPHLAN BOWTIE2 DB] [-x INDEX]
             [--bt2_ps BowTie2 presets] [--bowtie2_exe BOWTIE2_EXE]
             [--bowtie2 build BOWTIE2 BUILD] [--bowtie2out FILE NAME]
             [--min_mapq_val MIN_MAPQ_VAL] [--no_map] [--tmp_dir]
             [--tax lev TAXONOMIC LEVEL] [--min cu len]
             [--min_alignment_len] [--add_viruses] [--ignore_eukaryotes]
             [--ignore bacteria] [--ignore archaea] [--stat g]
             [--perc nonzero] [--ignore markers IGNORE MARKERS]
             [--avoid_disqm] [--stat] [-t ANALYSIS TYPE]
             [--nreads NUMBER_OF_READS] [--pres_th PRESENCE_THRESHOLD]
             [--clade] [--min ab] [-o output file] [--sample id key name]
             [--use_group_representative] [--sample_id value]
             [-s sam output file] [--legacy-output] [--CAMI format output]
             [--unknown_estimation] [--biom biom_output] [--mdelim mdelim]
             [--nproc N] [--install] [--force_download]
             [--read_min_len READ_MIN_LEN] [-v] [-h]
             [INPUT_FILE] [OUTPUT_FILE]
```

## Usage



Basic usage: 1 sample

metaphlan SRR6468499.unmapped.fastq.1
--input\_type fasta > SRR6468499\_profile.txt