

Local Computer



Raw
Sequence Data

Compute Cloud



CloVR
Virtual Machine

CloVR-Search

Any sequence data
- all platforms -

Ref.: NCBI or
user-provided

BLAST results

CloVR-16S

16S rRNA amplicons
- 454 or Sanger -

Filtering, trimming, sorting,
clustering

Ref.: Greengenes

Classification

Alignment

Tree prediction

Alpha- and Beta-diversity

CloVR-Metagenomics

Metagenomic WGS
- 454 or Illumina

Clustering

Ref.: COG

Functional
composition

Alpha- and Beta-diversity

Ref.: RefSeq

Phylogenetic
composition

CloVR-Microbe

Single-genomic WGS
- 454 or Illumina -

Assembly

CDS, tRNA, rRNA
prediction

Ref.: Pfam/TIGRfam

Ref.: UniRef100

Annotated genome

Annotated Sequence Data
• standardized formats