

Metagenome Assembly

Metagenome-assembled
genomes (MAGs)

MAG quality assessment
 $QS > 50\%$

Average Nucleotide Identity
vs.
GTDB reference genomes

ANI < 95% ANI ≥ 95%

Novel species-
level MAGs
(nMAGs)

Best MAGs
vs.
references

Community
composition
estimation

Sample
containment

Species
abundance
matrix

Diversity analysis