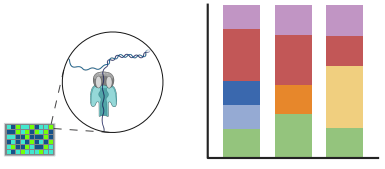
Long-read metagenomics Applications

Taxanomy

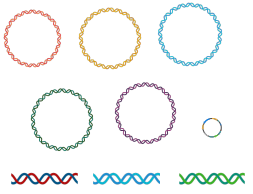
Rapid identification of community structure



- Identification of pathogen types
- Monitoring of the environmental community

Genome

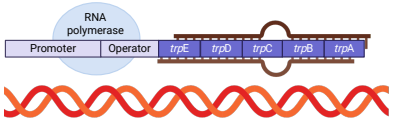
Assembly circlized genome



- Assembly complete genome
- Establish microbiome reference catalogue
- Investigate phylogenomics

Gene

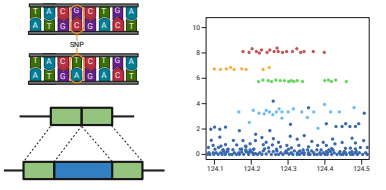
Predict gene and elements



- Recovering full-length biosynthetic gene clusters
- Discovery mobile genetic element

Pupulation

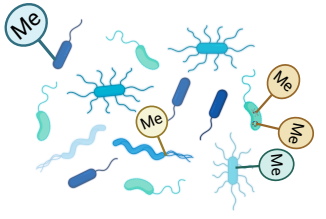
Microbial variation and population heredity



- Structural variation
- Population heterogeneity

Epigenetic

Epigenetic and association



- Methylation profile
- Mobile elements-host association
- Assist Binning

Long Read

Accuracy