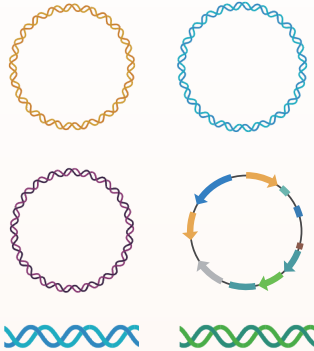
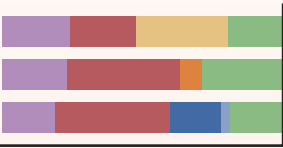
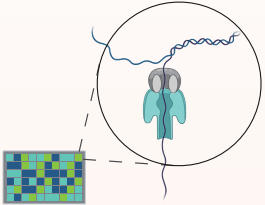


# Long-read metagenomics applications

## Taxonomy

Rapid identification of community structure

- Identification of pathogen types
- Monitoring of the environmental community



## Genome

Assembly circled genome

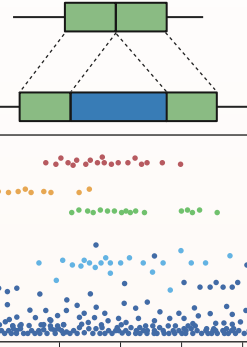
- Assembly complete genome
- Establish microbiome reference catalogue
- Investigate phylogenomics



## 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

