

What is viral whole-genome sequencing

Alt-text Figure 10 - Schematics of pooled libraries.

Illustration showing coloured bars representing different DNA fragments. The fragments are separated and combined in laboratory microtubes. Description of the process in the main text.

Alt-text Figure 11 - Schematic illustration of viral WCS approaches.

Direct metagenomic sequencing: host and pathogen DNA are bulk-sequenced from a direct-DNA library. PCR amplicon sequencing: PCR approaches are used to target and amplify the pathogen DNA from a sample containing both host and pathogen DNA. Target enrichment sequencing: the sequencing library is produced from a sample containing both host and pathogen DNA. Then, biotinylated pathogen-specific baits are hybridized into the target genome and capture using magnetic beads. The sequencing is generated from the target enriched DNA. Details in the main text.