Comparing library preparation methods

Alt-text Figure 9 - General next-generation sequencing ligation-based library preparation workflow

Schematic workflow of a general NGS library preparation. Detailed description in the main text.

Alt-text Figure 10 - Illumina sequencing workflow.

Schematic workflow of Illumina sequencing. Information in the connected boxes: Viral cDNA > Fragmented DNA sample (0-12000bp) > End-paired DNA > End-repaired dA tailed DNA > Adapter-ligated fragments > PCR-amplified library > Single-stranded DNA library > clonal DNA clusters on flowcell surface > Single-stranded clusters ready for sequencing > Incorporation of fluorescent reversible terminator nucleotides > Cleavage of fluorophores and blocking groups.

Alt-text Figure 11 - Oxford Nanopore Technologies sequencing workflow

Schematic workflow of an ONT sequencing. Information in the connected boxes: Viral cDNA or amplicons > End-repaired dA-tailed DNA > Optionally barcoded samples > Adapter-ligated fragments > Library read through pores on flowcell > DNA bases cause changes in electrical current.