

# Illumina Sequencing (SBS)

1



## Library Preparation

DNA fragments are prepared with adapters attached to both ends

2



## Cluster Generation

DNA fragments bind to flow cell surface and amplify into clusters

3



## Sequencing by Synthesis

Fluorescently labeled nucleotides are added one at a time

4



## Imaging & Data Analysis

Camera captures fluorescent signals and converts to sequence data

Read Length

**50-300 bp**

Accuracy

**>99%**

Throughput

Market Share

**Up to 6 Tb/run**

**~80% of NGS**