Supplementary Figure 1. Illumina/Solexa next generation sequencing platform.
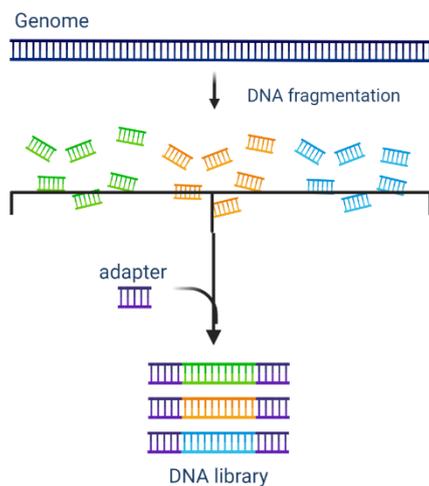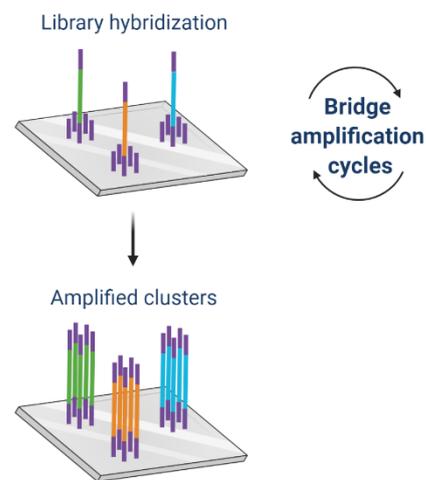
Illumina/Solexa is the most employed next generation sequencing (NGS) platform. 1) NGS-library is prepared by DNA fragmentation and tagging with specialized adapters to both fragment ends. 2) The library is loaded into a flow cell and each fragment bound on the flow cell surface is amplified into a clonal cluster. 3) Sequencing reagents are incorporated, and the flow cell is imaged: the emission from each cluster is used to identify the specific base. 4) Through bioinformatics software the reads are aligned to a reference genome and the differences between the reference a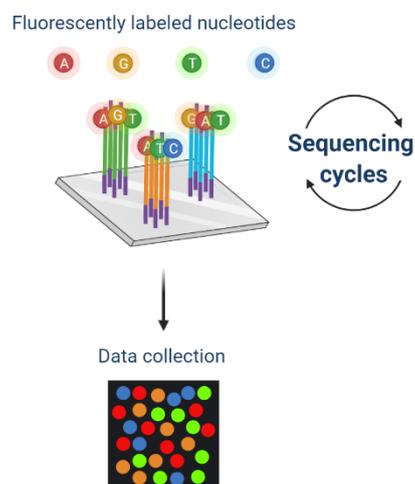nd the newly sequenced reads can be identified.