

**Supplemental Table S4 Comparison of different sequencing technologies .**

Platform	Technique	Type	Initiation time	Pros and Cons	Reference
ABI	Dideoxynucleotide chain termination sequencing	First-generation sequencing	1987	Low-throughput, high costs and high accuracy	Specific-primer-directed DNA sequencing using automated fluorescence detection
Roche 454	Pyrophosphate-based sequencing		2005		Genome sequencing in microfabricated high-density picolitre reactors
ABI/SOLiD	Sequencing by Ligation	Next-generation sequencing	2007	Short reads and high-throughput	Applied Biosystems SOLiD™ System: Ligation-Based Sequencing
Illumina	Synthetic sequencing with reversible terminator deoxyribonucleotides		2008		Accurate whole human genome sequencing using reversible terminator chemistry
Pacific Biosciences	Single-Molecule Real-Time Sequencing		2012	Long reads, high-throughput and high accuracy	A window into third-generation sequencing
Oxford Nanopore Technologies	Oxford nano-hole sequencing	Third-generation sequencing	2014		From squiggle to basepair: computational approaches for improving nanopore sequencing read accuracy