

**Table 1**

## Advantages and Disadvantages of Next-Generation Sequencing Technologies

	<b>Single-Molecule Real-Time Sequencing (Pacific Biosciences)</b>	<b>Ion Semiconductor (Ion Torrent)</b>	<b>Pyrosequencing (Roche/454)</b>	<b>Sequencing by Synthesis (Illumina)</b>	<b>Sequencing by Ligation (Applied Biosystems SOLiD)</b>
Advantages	Fast and informative data	Low cost and fast run	Fast	Simple, scalable, high yield	Low cost
Disadvantages	Low yield of high-quality sequences	High rate of sequencing errors	Expensive equipment	Expensive equipment	Slow