



HiFi Sequencing

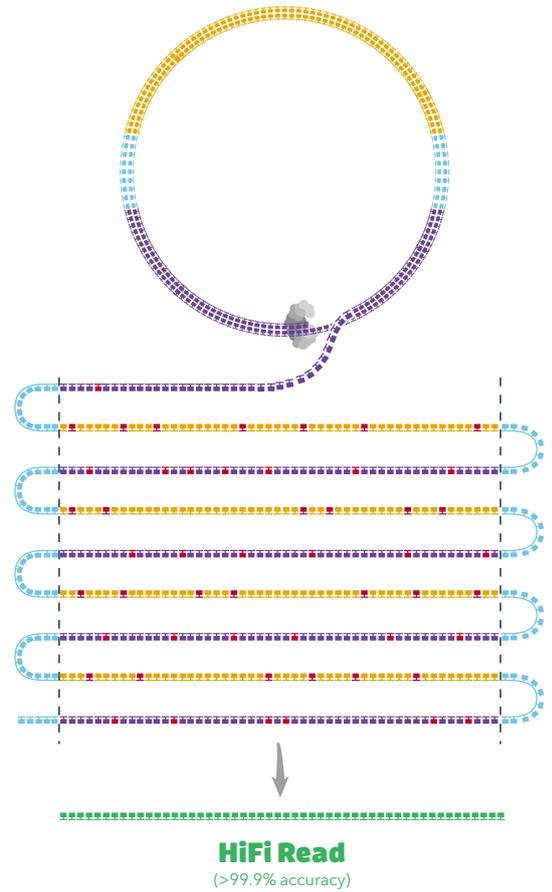
For Highly Accurate Long-Read Sequencing

>99.9% High Accuracy:

A typical 20 kb HiFi read has ~8 incorrect bases

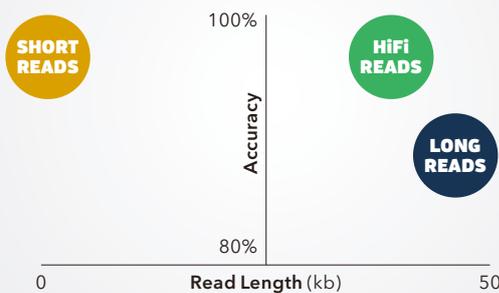
Benefits of the HiFi Reads:

- ✓ **Long read** lengths up to 25 kb
- ✓ **High read accuracy** >99.9%
- ✓ **Easy** library preparation
- ✓ **Low coverage requirements** to save valuable sample
- ✓ **Small file sizes** to minimize compute time
- ✓ **A single technology** solution for a range of applications



HiFi reads are generated by combining multiple consecutive observations of a DNA molecule (subreads), driving the accuracy of individual HiFi reads over >99.9%.

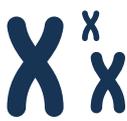
With PacBio® HiFi reads, you No Longer Need to Compromise between long read lengths and high accuracy sequencing.



A Single Technology Solution for A Range of Applications!



VARIANT DETECTION



WHOLE GENOME SEQUENCING



COMPLEX POPULATIONS



RNA SEQUENCING



TARGETED SEQUENCING

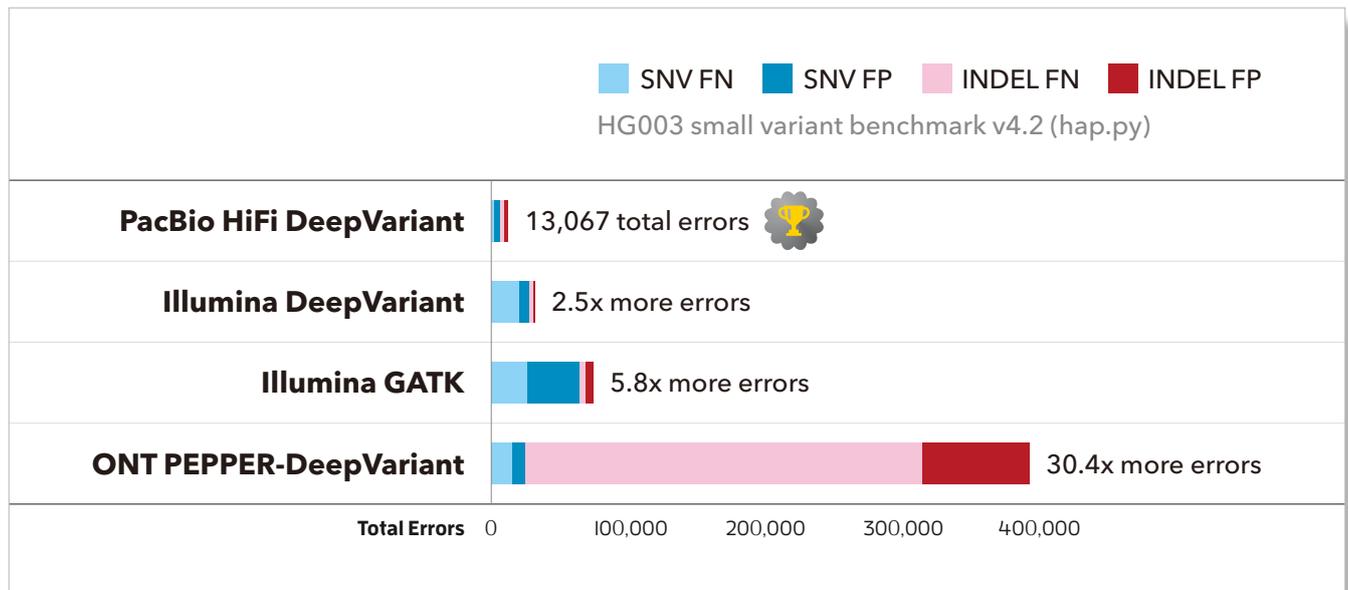


EPIGENETICS



In precisionFDA Challenge, PacBio HiFi Reads Outperform Both Short Reads and Noisy Long Reads

The PacBio HiFi DeepVariant callset had the fewest overall errors of any single-technology callset in the precisionFDA Truth Challenge V2. Variant Calling Performance, HG003. Total errors - the sum of SNV and indel false positives (FP) and false negatives (FN) - in a DeepVariant callset from 35× PacBio HiFi read coverage (Sequel II System, Chemistry 2.0); a DeepVariant callset from 35× Illumina NovaSeq; a GATK 4 callset from 35× Illumina NovaSeq; and a PEPPER-DeepVariant callset from 60× ONT PromethION R9.4.1. Performance is measured with hap.py against the Genome in a Bottle small variant benchmark v4.2.



More about HiFi Sequencing



HiFi Sequencing



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To Unlock Your Next Great Discovery with HiFi Sequencing and the Sequel II System, Contact Your APAC Distributor or Sales Team:

Asia Pacific: apsales@pacb.com

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