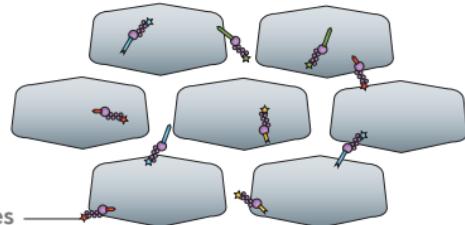


A Pacific Biosciences

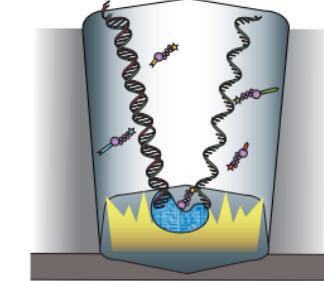
SMRTbell template
Two hairpin adapters allow continuous circular sequencing



ZMW wells
Sites where sequencing takes place



Labelled nucleotides
All four dNTPs are labelled and available for incorporation



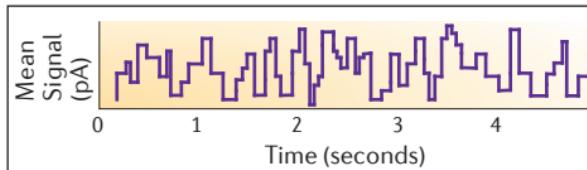
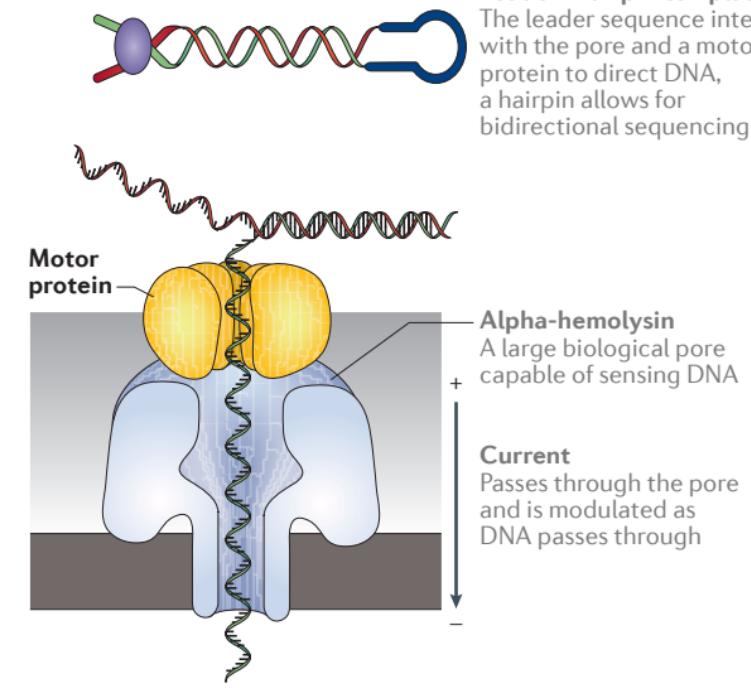
Modified polymerase
As a nucleotide is incorporated by the polymerase, a camera records the emitted light



PacBio output
A camera records the changing colours from all ZMWs; each colour change corresponds to one base

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Leader-Hairpin template
The leader sequence interacts with the pore and a motor protein to direct DNA, a hairpin allows for bidirectional sequencing



ONT output (squiggles)
Each current shift as DNA translocates through the pore corresponds to a particular k-mer