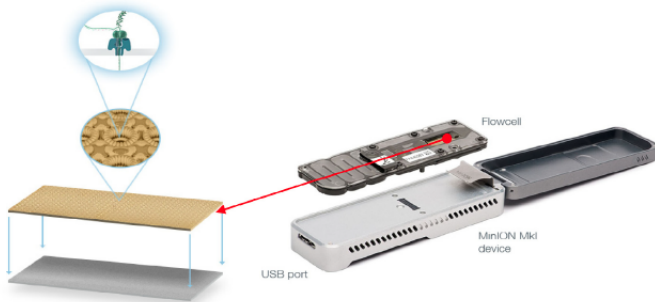


Introduction to (nanopore-based) MinION sequencing

Introdução à sequenciação MinION

September 25th, 2026

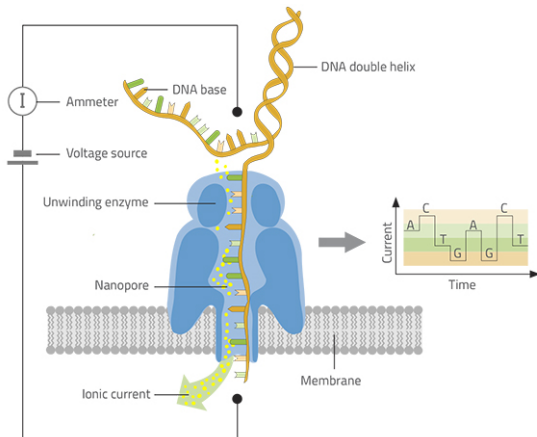
Oxford Nanopore Technologies' MinION



Lu, Giaordano and Ning, 2016 *Genomics Proteomics Bioinformatics*

Basics of nanopore sequencing

Os básicos da sequenciação nanopore



Kerstin Goeprich (www.scienceinschool.org)

(Portable) ONT Platforms



MK1C



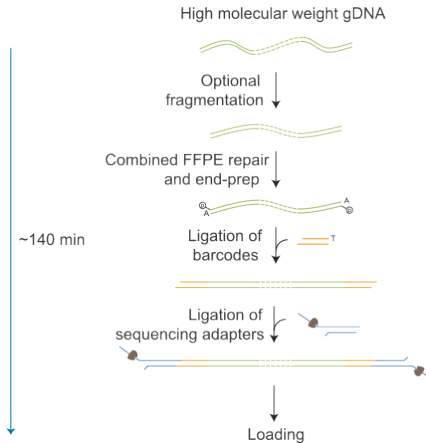
MK1B



PromethION P2 Solo

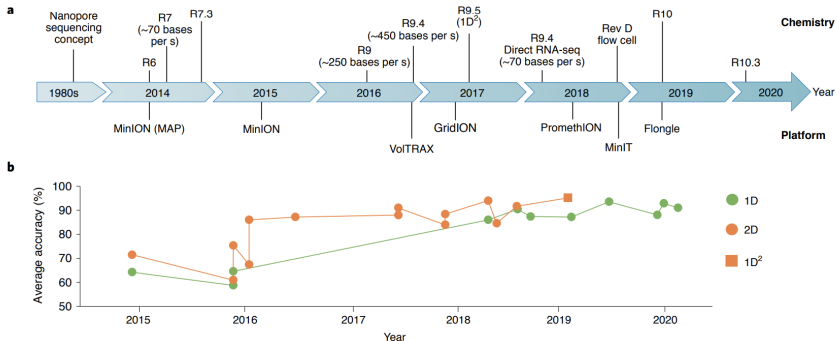
Oxford Nanopore Technologies

Native Barcoding Kit



Error rate improvement

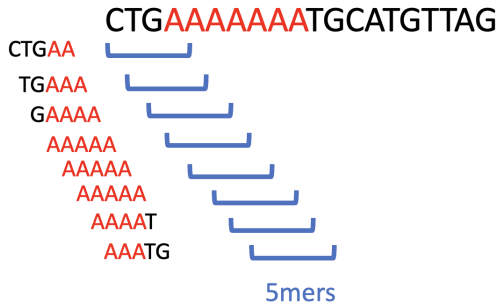
Melhoria da frequência de erros



Wang et al. 2021 *Nature Biotechnology*

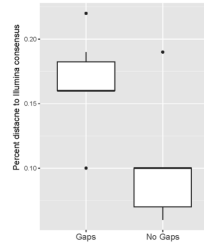
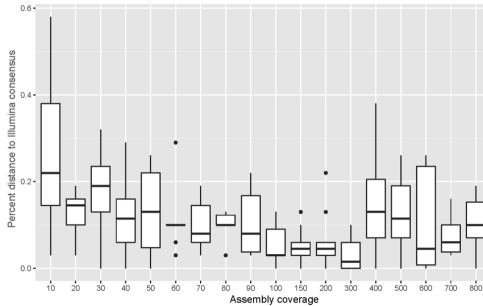
Nanopore errors

Erros da nanopore



Consensus Accuracy

Precisão do consenso



Krehenwinkel et al. 2019 *GigaScience*

Accuracy - Pore improvement

Precisão - Melhoria do poro

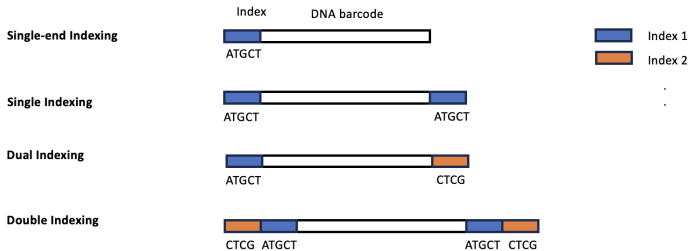
R10: a new nanopore



Oxford Nanopore Technologies

Indexing

Indexação



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