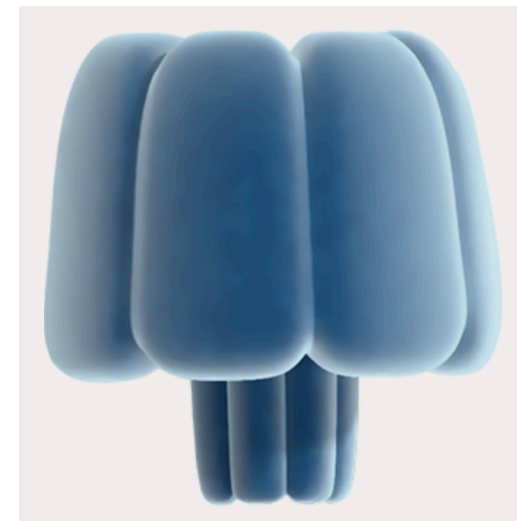
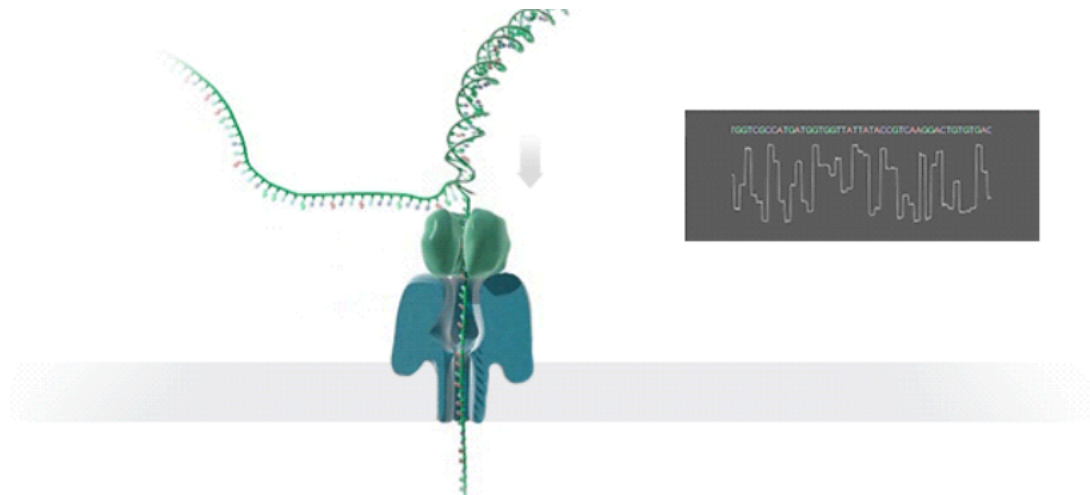


NANOPORE WORKFLOW

- A nanopore is a nano-scale hole.
- [Oxford Nanopore](#) passes an ionic current through nanopores and measures changes in current as biological molecules pass through the nanopore. This latter information is used to identify the molecule (e.g. G, A, T and C).
- This technology could be used to work on DNA, RNA and proteins.
- **Direct readout of long DNA strands/sequences (100 of kb), with minimum need for library construction (10 mins). Neither DNA synthesis nor degradation is involved.**



WHAT CAN YOU DO WITH THE NANOPORE PLATFORM?

- Small Whole-Genome Sequencing.
- Large Whole-Genome Sequencing.
- Targeted Sequencing.
- RNA Sequencing.
- Metagenomics.
- Methylation Sequencing (epigenetics).

SELECTING THE BEST SYSTEM FOR THE TASK



MinION

- Pocket-sized, portable device for biological analysis
- Up to 512 nanopore channels
- Simple 10-minute sample prep available
- Real-time analysis for rapid, efficient workflows
- Adaptable to direct DNA or RNA sequencing

[About MinION](#)

[Start using MinION](#)

Choose MinION if you:

- would like access to sequencing for \$1,000
- want to sequence immediately, not wait
- want to sequence outside a lab
- need 10–20Gb per 48 hours
- want to avoid CapEx investments.

Sequence outside of a lab!



SmidgION

- Designed to be our smallest sequencing device so far
- Same nanopore sensing technology as MinION and PromethION
- Designed for use with a smartphone in any location

[Learn more about SmidgION](#)



GridION^{x5}

- Multiple sequencing devices, one compute module
- Use up to five MinION Flow Cells at a time
- Benchtop processor capable of handling high data volumes in real time
- Rapid, real-time applications such as *Read Until ...*

About GridION

Get in touch

Choose GridION X5 if you:

- would like to offer nanopore sequencing as a service
- want the choice to invest from a CapEx or consumable budget
- work on larger sequencing projects (50–100Gb per 48 hours)
- would like on-device basecalling – no local infrastructure requirement.



PromethION

- High-throughput, high-sample number benchtop system
- Modular: Up to 48 flow cells, each with up to 3,000 nanopore channels (total up to 144,000)
- Flow cells may be run individually or concurrently
- Same workflow as MinION at larger scale

Choose PromethION if you:

- would like to offer nanopore sequencing as a service
- are interested in very large data volumes projects (Tb)
- are seeking on-demand sequencing for large numbers of samples
- would like to avoid CapEx investments