

Real-time, on-demand  
sequencing in the palm  
of your hand



“ Nanopore sequencing technology is advancing at an unprecedented pace, promising a future where portable sequencing will be routine in surveillance and many other fields. ”

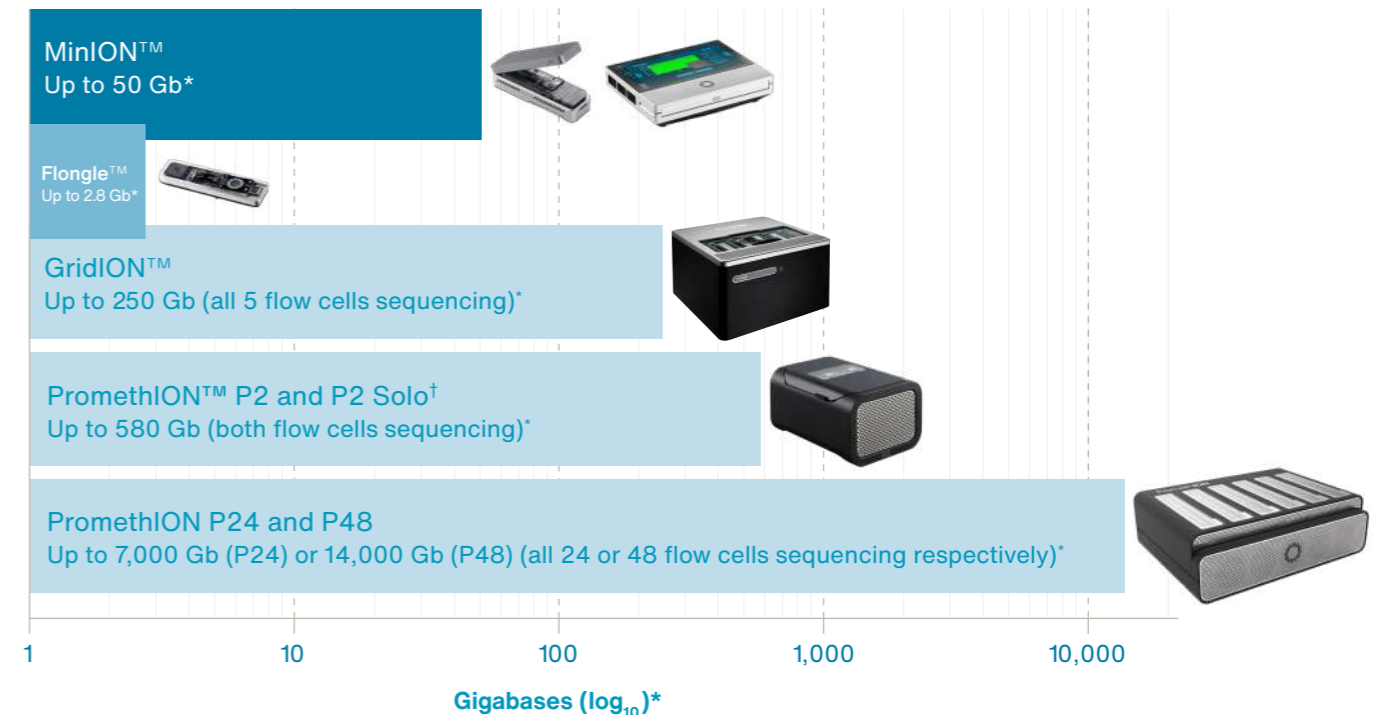
**Jana Batovska**, La Trobe University

“ MinION ~5 kb amplicon run basecalling all done at 34.28 Gb, I'll take that :) ”

**Dr. John Tyson**, University of British Columbia

## Immediate access to gigabases of data

**MinION and MinION Mk1C allow you to sequence anything, anywhere – from the bench to the field – with real-time analysis providing immediate access to actionable results. The same DNA and RNA sequencing workflows are available across our products, offering unrestricted read lengths, from short to ultra-long, and complete scalability to suit your needs.**



\* Theoretical max output (TMO). Assumes system is run for 72 hours (or 16 hours for Flongle) at 420 bases / second. Actual output varies according to library type, run conditions, etc. TMO noted may not be available for all applications or all chemistries.

† PromethION P2 and P2 Solo devices are currently available for preorder, with Early Access devices expected to ship in 2022.

# All the benefits of real-time nanopore sequencing in a portable, low-cost device



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Actual output varies according to library type, run conditions, etc. TMO noted may not be available for all applications or all chemistries.



# How will you use your MinION?

From the bench to the field, MinION devices are being utilised throughout the world to deliver new insights and actionable, real-time results for a range of applications.



 Whole genome sequencing

 Targeted sequencing

 RNA sequencing

 Metagenomics


 Epigenetics

 Infectious disease

 Microbiology

 Microbiome

 Environmental research

 Transcriptome analysis

 Human genomics

 Clinical research

 Cancer research

 Animal research

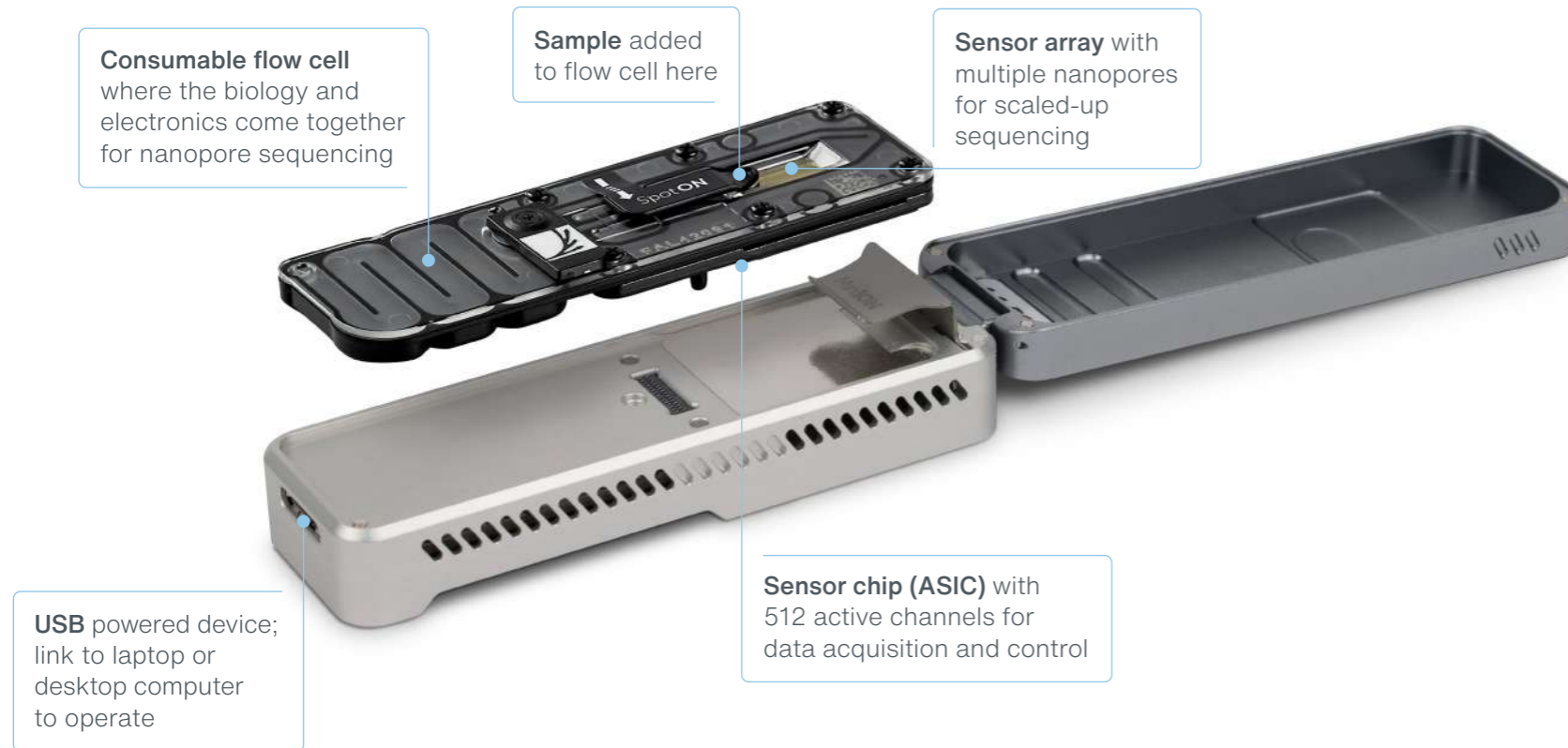
 Plant research



Image courtesy of Dr. Sarah Stewart Johnson, Georgetown University.

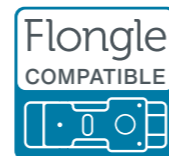
# Your personal, portable DNA and RNA sequencer

Get complete control and creativity over when, where, and how often you sequence. MinION provides the power of nanopore sequencing in an accessible, fully portable device. Weighing only 100 g and running off a laptop, MinION generates tens of gigabases of real-time data in the field or lab.



**MinION**

Specification	
<b>Weight</b> 87 g (103 g with flow cell)	<b>Size</b> W 105 mm   H 23 mm   D 33 mm



# Choose your MinION Starter Pack

		Recommended
	Basic	Enhanced
MinION device	1	1
Flow cells	1	4
Sequencing kits	1	1
Wash kits	1	1
Community Support	Included	Included
	<b>\$1,000</b>	<b>\$3,250</b>

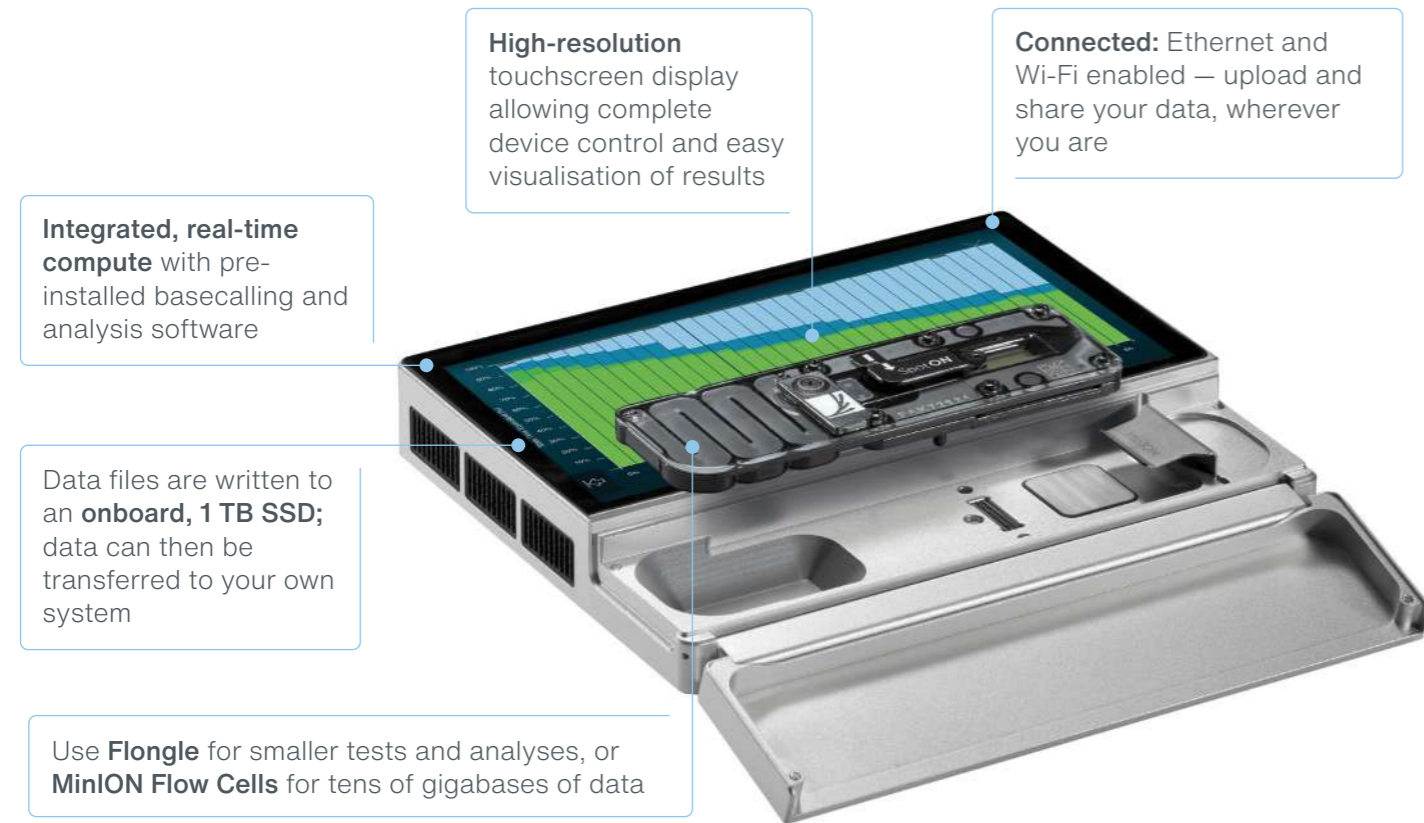
Buy now [store.nanoporetech.com](https://store.nanoporetech.com)

A wide range of training and support services are available, for more information visit [store.nanoporetech.com](https://store.nanoporetech.com).



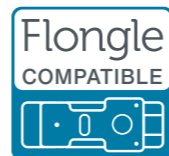
# Your all-in-one, portable DNA and RNA sequencer

**MinION Mk1C provides the power of nanopore sequencing in a fully portable device with integrated real-time basecalling and data analysis, touchscreen operation, and wireless connectivity. Sequence and analyse your samples in the lab or field, and easily standardise assays across multiple sites or collaborators.**



**MinION**Mk1C

Specification	
<b>Weight</b> 420 g	<b>Size</b> W 140 mm   H 30 mm   D 114 mm



# Choose your MinION Mk1C plan

	Basic	Enhanced	CapEx*
MinION Mk1C device	1	1	1
Flow cells	6	12	-
Sequencing kits	1	2	-
Wash kits	1	1	-
Software licence and device warranty†	12 months	12 months	12 months
Community Support	Included	Included	Included
	<b>\$4,900</b>	<b>\$9,559</b>	<b>\$9,300</b>

\* Device purchase.  
† Extended warranties available.

[Buy now](https://store.nanoporetech.com) [store.nanoporetech.com](https://store.nanoporetech.com)

A wide range of training and support services are available, for more information visit [store.nanoporetech.com](https://store.nanoporetech.com).



MinION Mk1C COVID Starter Pack also available for simple, scalable, and rapid sequencing of SARS-CoV-2 samples.

# A complete and streamlined workflow for rapid access to actionable results



## Prepare

- Streamlined library preps — in as little as 10 minutes, with multiplexing options
- Scale according to your needs — same chemistry and kits used for Flongle, MinION, GridION, and PromethION
- Automate library preparation using the portable, USB-powered VoITRAX

## Sequence

- Sequence what you need, when and where you need it
- Read lengths determined by your sample and experimental needs
- MinION devices sequence DNA and RNA directly — meaning no amplification bias and retained modification information (e.g. methylation)
- Run smaller sequencing tests and experiments or cost-effectively check your sample quality using Flongle on MinION

## Analyse

- Real-time results for time-critical applications such as pathogen identification
- User controlled run time — stop sequencing when sufficient data generated, wash and reuse flow cell
- Portable data analysis using MinION Mk1C or combine MinION with a laptop
- Output raw signal or basecalled .fastq files for use in custom analysis pipelines

## Applications include:

- Rapid metagenomic species identification and antibiotic resistance profiling
- Accurate high-coverage microbial genome assemblies (DNA and RNA)
- Enhanced large genome analysis (e.g. cancer samples) through accurate mapping of structural variation, repetitive regions, and phasing
- Quantify and characterise RNA splice variants, isoforms and fusion transcripts

# Enhance your MinION sequencing workflow...

## Prepare

Automated library preparation for nanopore sequencing.

- Small, USB-powered device
- Minimal hands-on time
- Reproducible results

[nanopore.com/products](https://nanopore.com/products)

VolTRAX



## Sequence

Adapting MinION devices for smaller, rapid tests and analyses. Delivering as much as 2.8 Gb\* data, Flongle is suitable for:

- Smaller samples (e.g. targeted regions and smaller genomes)
- Rapid sample ID or quality checking
- Low-cost regular testing

[nanopore.com/products](https://nanopore.com/products)

Flongle



## Analyse

Providing straightforward, best-practice data analysis workflows and interactive tutorials — from basic quality control to genome assembly.

- Minimal installation requirements
- Interactive tutorials for your data
- Fully customisable

[nanopore.com/analyse](https://nanopore.com/analyse)

EPI2ME



# ...with end-to-end analysis workflows

EPI2ME and EPI2ME Labs offer a rapidly growing number of streamlined, best practice analysis pipelines.

## EPI2ME:

Simple, real-time data analysis workflows accessed through the cloud or locally using MinION Mk1C†.

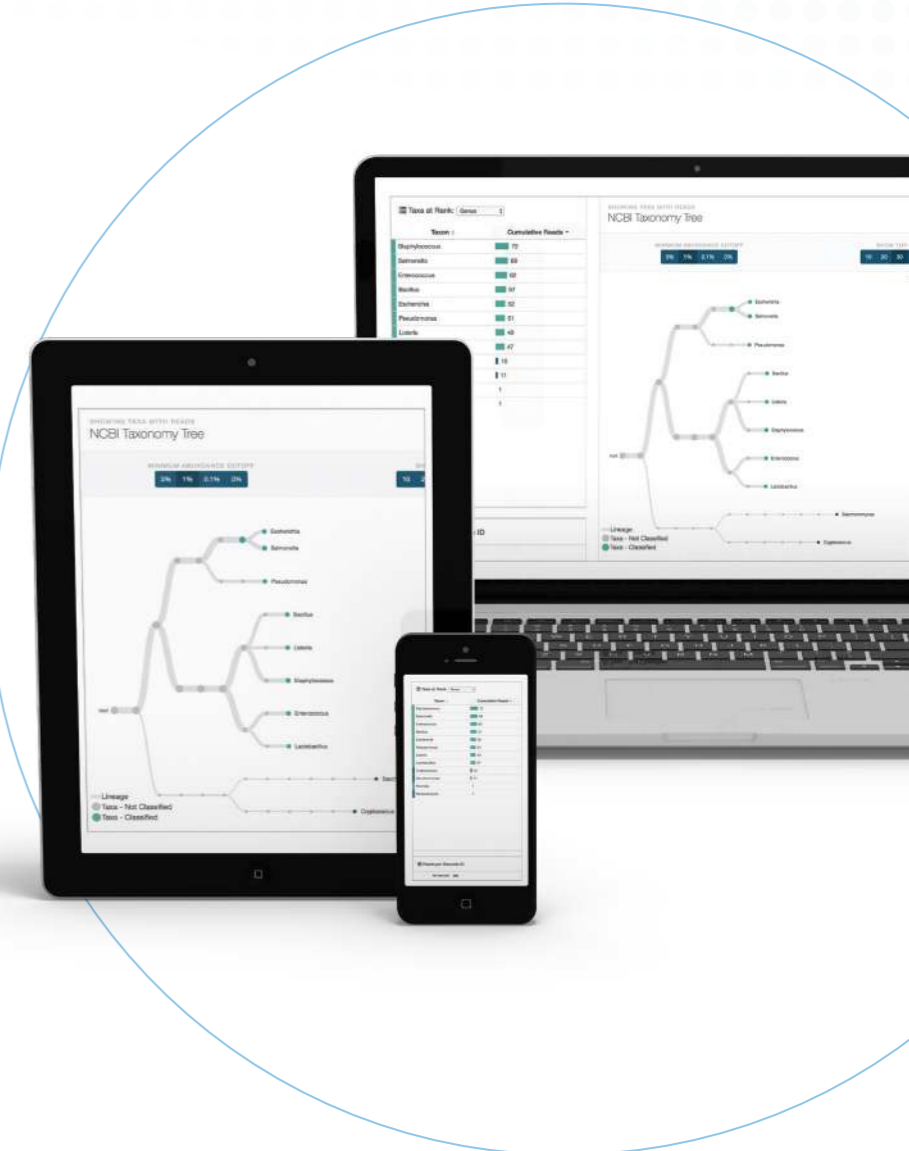
## EPI2ME Labs:

Interactive tutorials and workflows allowing you to explore your data and develop your bioinformatics skills

## Workflows include:

- SARS-CoV-2 analysis
- Metagenomic species ID
- Antimicrobial resistance profiling
- 16S-based microbial ID
- Structural variation analysis
- Plasmid sequencing
- Variant calling
- Clone validation
- Reference alignment

† Local EPI2ME workflows on MinION Mk1C coming soon.



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