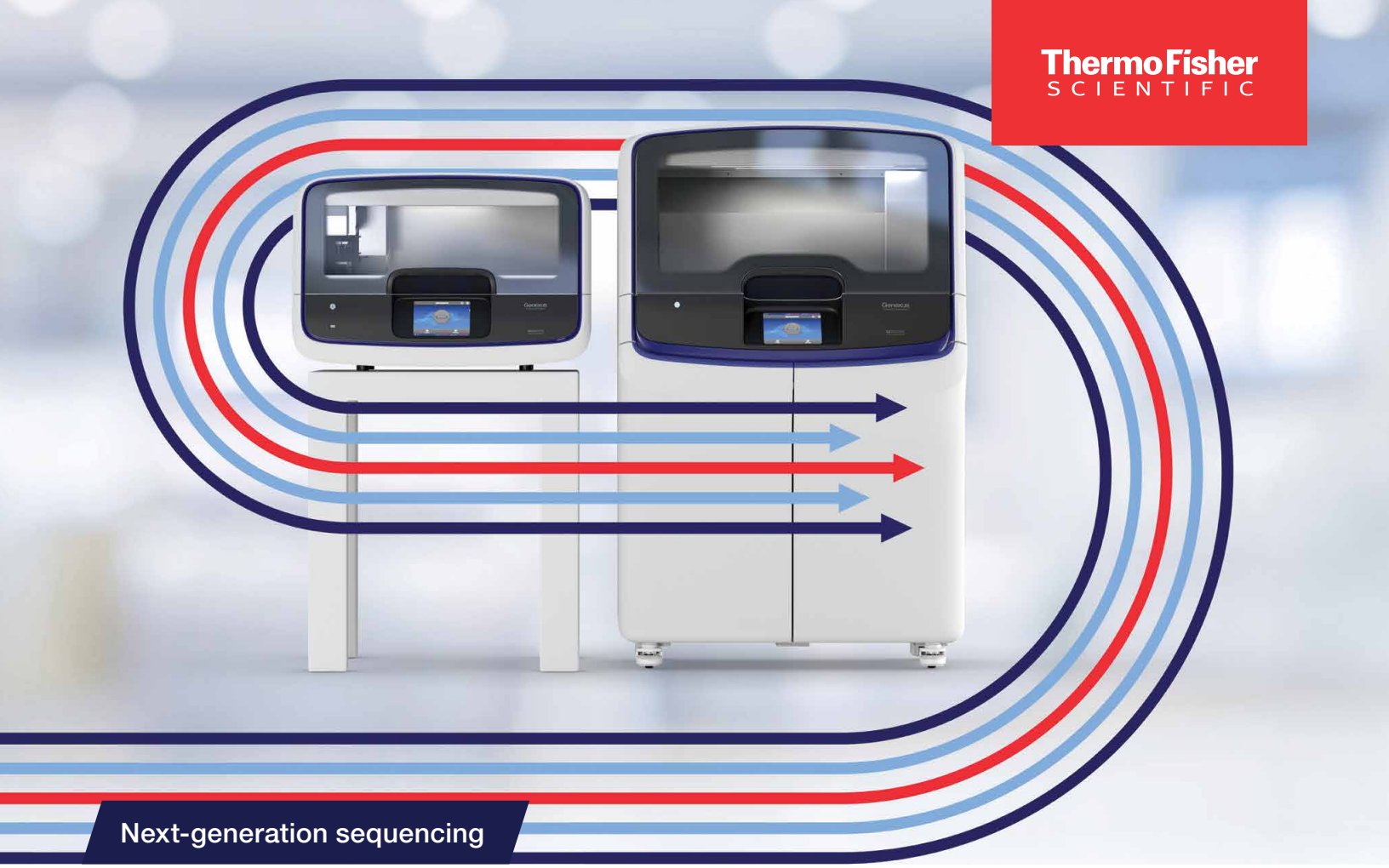

Next-generation sequencing

The Genexus System

The future of NGS is here

Bring fast, automated, specimen-to-report next-generation sequencing to your lab and get test results in as little as 24 hours

One complete system

The Ion Torrent™ Genexus™ System is the first turnkey next-generation sequencing (NGS) solution that automates the specimen-to-report workflow and delivers results in as little as 24 hours with just two user touchpoints.*

This highly flexible system lets you process samples cost-effectively as they arrive. Its simplicity and practicality make it easy for your clinical research or testing lab to bring NGS in-house, regardless of your lab's current level of NGS experience.

Highlights

- **Exceptional specimen-to-report automation and ease of use**—just 20 minutes of hands-on time and two user touchpoints can give results in as little as 24 hours*
- **Minimized user processing errors**—while helping to increase reproducibility of results
- **The ability to analyze samples cost-effectively**—reduces your need for batching and empowers you to deliver results faster than ever

* Processing times for individual sample types vary.

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The Genexus System makes in-house NGS accessible

Experience exceptional specimen-to-report automation and ease of use

The Genexus System integrates and automates nucleic acid extraction, purification, and quantification, as well as library preparation, sequencing, analysis, and reporting under a single instrument and software ecosystem from one vendor. This convenient system reduces the number of instruments and consumables required, so it frees up your time for more technical applications to boost your lab's overall efficiency (Figure 1).

With just 20 minutes of hands-on time and two touchpoints, users can get up and running quickly with significantly less training, making NGS accessible even if your lab is new to the technology (Figure 2).

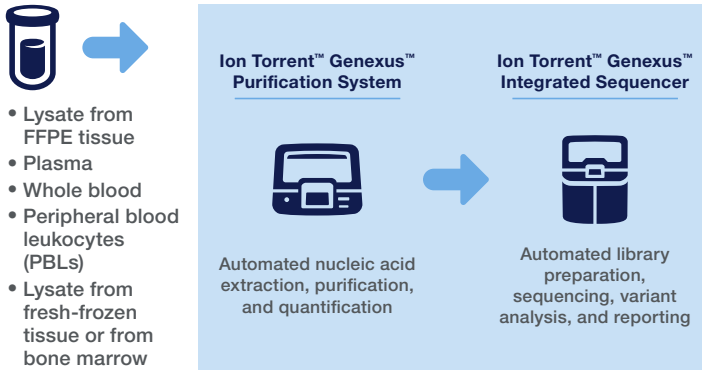

Figure 1. Specimen-to-report NGS automation in as little as a single day with the Genexus System. The Ion Torrent™ Genexus™ Software is used to operate both automated instruments and for analysis and reporting.

Figure 2. Minimal user hands-on and turnaround times on the Genexus System.

Deliver answers faster

Other NGS systems, as well as the traditional way of outsourcing samples, can take multiple days or weeks to get results, which can delay answers. With the Genexus System, you can go from a biological specimen to a report in as little as 24 hours (including sample preprocessing). This allows you to provide more comprehensive NGS results within approximately the same turnaround time as older single-gene analysis methods such as immunohistochemistry.

Reduce errors

Both instruments in the Genexus System have prefilled reagent cartridges and preloaded instrument protocols to make them simple to operate. Additionally, the onboard vision system confirms correct consumable placement and uses automated barcode scanning to help reduce errors.

Analyze small sample batch quantities cost-effectively

Samples are often processed in batches to keep costs down, which can slow turnaround time and affect consistency with other NGS technologies. With the Ion Torrent™ GX5™ Chip and Genexus™ Coupler, you can process as few as one sample cost-effectively during a single sequencing run. The GX5 Chip can also multiplex up to 48 single-pool libraries per run, providing flexibility in sample throughput.

Ordering information

Description	Cat. No.
Genexus Purification System	A48148
Genexus Integrated Sequencer	A45727
GX5 Chip and Genexus Coupler**	A40269

** For information about consumables for the Genexus System, go to **thermofisher.com/genexus**.

Learn more at **thermofisher.com/genexus**

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