

# AUTOMATE YOUR SINGLE CELL WGA

## Reduce Errors During WGA

Whole genome amplification (WGA) of biopsies for preimplantation genetic testing for aneuploidy (PGT-A) has traditionally been performed by hand, which can lead to multiple potential issues including:

- Errant volume pipetting
- Technologist fatigue
- Wasted time
- Sample contamination

### Using the JANUS® G3 liquid handler with preprogramed, plug and play automated WGA protocols your lab can:

- Reduce human errors and contamination risk
- Gain time for your staff to perform more important tasks
- Increase your lab's throughput with walkaway automation
- Ensure sample process traceability with barcode scanning and sample tracking

PerkinElmer's new custom JANUS® G3 liquid handler format is capable of performing WGA using the DOPlify® platform or other WGA technologies with a throughput of 48 - 96\* samples per run.

\* Higher throughput options are available



JANUS® G3 Liquid Handler Workstation

For research use only. Not for use in diagnostic procedures.

## DOPlify® Whole Genome Amplification

The DOPlify® kit from PerkinElmer is a whole genome amplification kit designed and optimized specifically to amplify the genome from single cells and limited DNA templates. It reproducibly amplifies total DNA from limited template samples to produce microgram quantities of amplified DNA in less than 3 hours. The DOPlify® WGA kit employs the high processivity and fidelity of new generation, sequencing-grade polymerases.

## PG-Seq™ kit 2.0, PG-Seq™ Rapid and PG-Seq™ Rapid Non-invasive PGT kits

The PG-Seq™ range of kits have been specifically developed for whole genome amplification and Next Generation Sequencing library preparation from single cells or spent embryo culture media. Based on the foundation of the DOPlify® WGA technology, the PG-Seq™ kits accurately

and robustly amplify these limited templates. With the introduction of the customized JANUS® G3 liquid handler, it is now possible to automate the entire single cell or spent culture media sample preparation, from lysis through to NGS libraries pooled and ready to sequence.

**Contact your local PerkinElmer representative to automate your single cell WGA**

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