



THE DIFFERENCE OF **ONE** SIMPLE SORT

ONE RESEARCHER, ONE SORTER, ONE CELL, MANY DISCOVERIES. BD is dedicated to developing easy-to-use cell sorting technologies that simplify accurate and reliable flow cytometry. The **BD FACSMelody™** cell sorter introduces a powerful combination of high performance, reproducible results and automated ease of use from a brand whose integrated flow cytometry portfolio and rigorous standards you can trust. BD FACSMelody is an affordable cell sorter that requires minimal training making it an ideal solution to advance your research. Its software guides the operator through every step, with a system sort readiness of less than 17 minutes for optimal timeliness. Designed to improve efficiency and throughput, it comes with the full suite of BD service and support to help you maximize your investment. Learn more about the one cell sorter that is easy to learn, to use and to maintain. Discover the difference one company can make. **Discover the new BD.**

Learn more about the Difference of One at bd.com/GR-SimpleSort

Class 1 Laser Product.
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AACR

American Association
for Cancer Research

ANNUAL MEETING

2017

WASHINGTON, DC

RESEARCH
PROPELLING
CANCER
PREVENTION
AND
CURES

April 1-5, 2017 • Walter E. Washington Convention Center • Washington, DC

AACR.org • #AACR17



Join us in Washington, DC

for the latest innovative and inspiring cancer research from around the world...
the AACR Annual Meeting 2017!

You won't want to miss this five-day, comprehensive program offering world-class opportunities to learn, collaborate, and share not only the progress made in cancer research, but also the promise of what is to come. This new era of cancer discovery is unprecedented with respect to rapidly emerging cancer science and new and effective molecularly targeted therapies.

The best and brightest researchers in the world will attend this meeting that covers every aspect of cancer – from molecular biology, clinical studies, epidemiology, and prevention to survivorship. And you'll want to be among them.

**Submit your late-breaking abstract by
THURSDAY, JANUARY 12.**

**Register and save by
JANUARY 29.**

Become a Member!
Join the AACR and receive a discount on registration.

110
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AACR

American Association
for Cancer Research

We look forward to seeing you in Washington, DC!



Echo® Acoustic LIQUID HANDLING
for GENOMICS

Reduce Library Prep Costs

100-Fold

Echo Liquid Handlers enable library preparation in low microliter volumes for a range of sequencing methods. Dramatically reduce reagent costs, conserve samples, and eliminate steps – all while improving library quality.

Customer data* show that the use of Echo Acoustic Liquid Handling allows for...

- ▶ 100-fold reduction of library prep reaction volumes
- ▶ Increased sample throughput
- ▶ Automation of workflow to easily prepare thousands of samples
- ▶ Improved accuracy of results

Comparison of Liquid Handling Methods

	Manual Pipetting	Echo® Liquid Handler
Amount of DNA	50 ng	0.06 – 2.0 ng
DNA volume (Rxn)	25 µL	200 nL
Library prep volume (Rxn)	25 µL	300 nL
Total volume	50 µL	0.5 µL
Reactions per kit	96	9600
Cost per reaction	\$72.91	\$0.73

For more information, visit www.labcyte.com/sequencing.

* Low-Cost, high-throughput sequencing of DNA assemblies using a highly multiplexed Nextera process. Shapland et al. ACS Synth. Biol., 2015

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Echo® 525 LIQUID HANDLER

LABCYTE 
The Future of Science is Sound

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Superb sensitivity. No thermocycler.



Researchers from the Natural Resources Institute, UK, developed an RPA-based assay that can detect **as little as 14pg/ μ l of purified RNA** from a plant infected with *Yam mosaic virus*; comparable to the gold standard RT-PCR method, but without the need of a thermocycler.

Discover how this assay could help African farmers:
twistdx.co.uk/innovators

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Custom PNA Synthesis

PNA (Peptide Nucleic Acid) is an artificially synthesized polymer similar to DNA or RNA. The various purine and pyrimidine bases are linked to the backbone by methylene carbonyl bonds as in peptides. Since PNA contains no charged phosphate groups, the binding between PNA and DNA is stronger than that between DNA and DNA due to the lack of electrostatic repulsion. PNA is resistant to DNases and proteases, and is extremely stable in vivo as well as in vitro.

PNA Applications

- ◎ Sequence specific PCR blocker (PNA clamp)
- ◎ FISH probes for telomere, centromere, gene specific probes, infection test
- ◎ Anti-sense/ anti-microbial reagents
- ◎ miRNA inhibitors
- ◎ Double strand DNA invasion & capture
- ◎ Microarray probes



PNA Order

- ◎ The price of custom oligo is dependent on the length, amount and label
- ◎ HPLC and MALDI-TOF data will be provided
- ◎ Synthesis scales: 50 nmole, 100 nmole, and 200 nmole
- ◎ Purity: >90%, and >95%
- ◎ Turn-around: 2~3 weeks for the most cases



*Transforming NGS
Library Prep Applications*

Retain More Sequencing Data with Molecular Identifiers

Accel-NGS® 2S MID Indexing Kits

Molecular Identifier (MID) technology paired with Accel-NGS 2S DNA Library Kits maximize your ability to confidently detect low frequency mutations.

- Identify unique library molecules
- Improve detection of low frequency alleles
- Compatible with exome sequencing
- Validated with cfDNA and FFPE samples

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