


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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*Transforming NGS
Library Prep Applications*

Retain More Sequencing Data with Molecular Identifiers

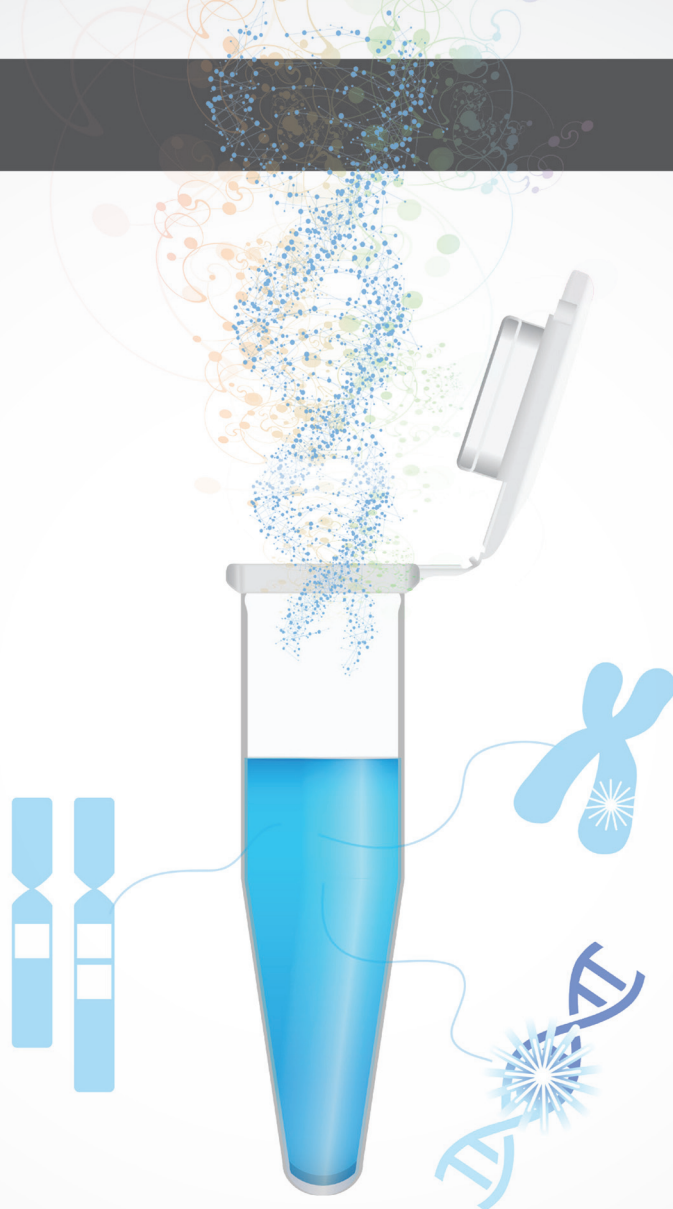
Accel-NGS® 2S MID Indexing Kits

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



Swift
BIOSCIENCES™
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One tube. Many answers.

Detect SNPs, indels, fusions, and more

Ion AmpliSeq™ targeted sequencing panels, combined with an Ion Torrent™ next-generation sequencing system, enable high-throughput analysis of many genes and can help detect multiple mutation types (SNPs, indels, and copy number variants) in a single panel.

See how Ion AmpliSeq chemistry works at
thermofisher.com/ampliseq

ThermoFisher
 SCIENTIFIC

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.

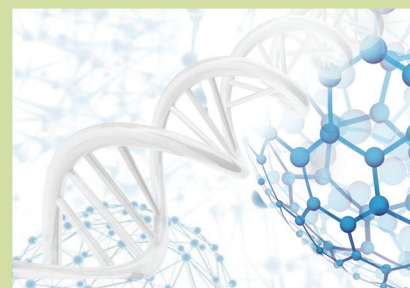
PNA Applications

- ◎ 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





Echo® Acoustic LIQUID HANDLING
for SEQUENCING

Miniaturize Nextera Library Prep Reactions
with Echo® Acoustic Liquid Handling

Reduce Sequencing Costs

Echo® Liquid Handlers use acoustic energy to transfer nanoliter volumes of reagents, allowing the reduction of NGS library preparation reaction volumes. Dramatically reduce reagent costs, save samples, and eliminate steps – all while improving quality and throughput.

- ▶ **Miniaturize reactions at least 20-fold and significantly reduce cost per sample without sacrificing data quality**
- ▶ **Streamline assay cleanup and sequence more samples in less time for higher throughput and productivity**

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

DOWNLOAD
APPLICATION NOTE



LABCYTE ™
The Future of Science is Sound

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CROPS²⁰¹⁷

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Improving agriculture through genomics

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- Challenges in Identifying Agronomical Useful Alleles Using Large-Scale Genomics and Phenotyping
- Translational Research in Breeding Applications
- Targeted Modifications Toward Crop Improvement and Emerging Frontiers
- Applying Genomics to Minor Crops
- Understanding Biotic and Abiotic Stress
- Genomics Toward Developing World Crops

Register Early and Save!

Abstract Deadline

March 22, 2017

Early Booking Deadline

March 31, 2017

**Group Rates Available
for 5 or more!**

www.CROPSconference.org

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American Association
for Cancer Research

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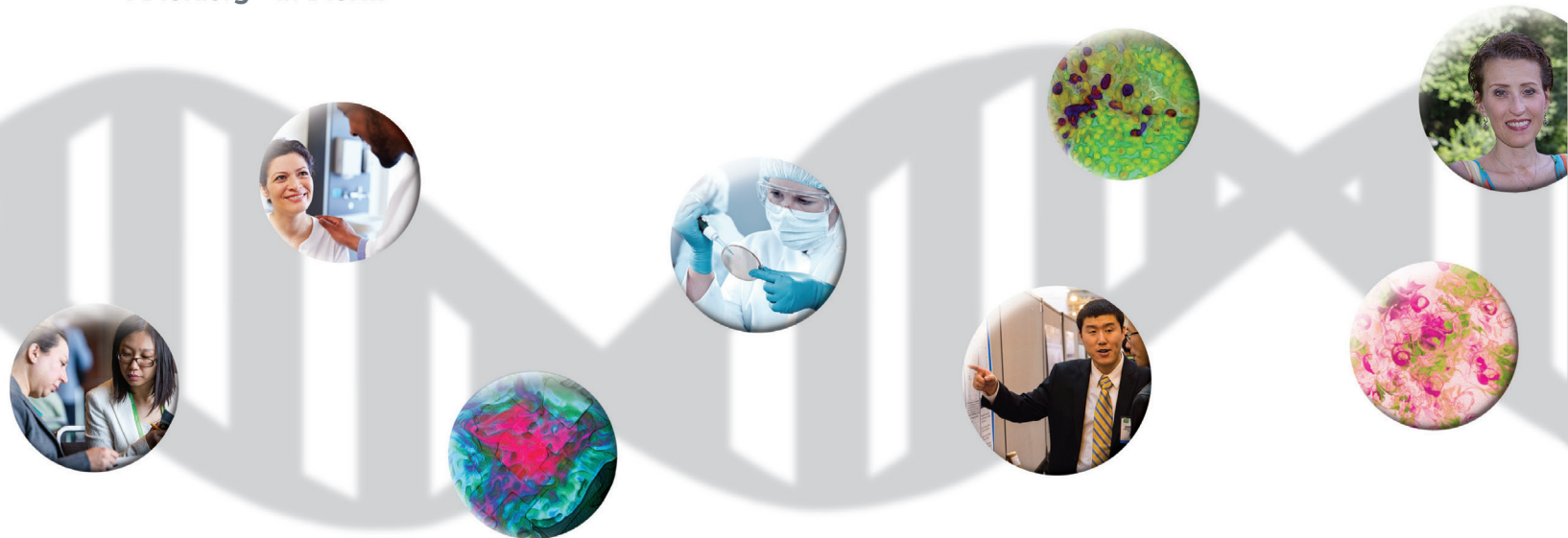
2017

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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.

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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/µl 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.

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