

Bertin and Zymo Research Announce New Collaboration

Bertin's Precellys® Evolution Homogenizer and Zymo Research's ZymoBIOMICS® Microbial Community Standard: Liberation of DNA From all Microbes in Just One Minute

IRVINE, Calif. and ROCKVILLE, MD (Dec. 5, 2017) — Zymo Research Corp. and Bertin announce a collaboration that ensures the sample lysis step in the microbiome workflow is complete and unbiased. An [application note](#) is available describing the materials, procedure and results attained using the [Precellys® Evolution Homogenizer](#) together with the [ZymoBIOMICS® Microbial Community Standards](#) and [ZymoBIOMICS DNA Miniprep Kit for purification of the DNA](#). Using both companies' products, the researcher is afforded unbiased cell lysis in only one minute. The application note validates a procedure for accurate downstream microbiome measurements.

Bertin has been in the sample preparation and homogenization instrumentation market for over ten years. Their [line of Precellys homogenizers](#) have won widespread recognition from the scientific community as hard-wearing, efficient and ergonomic research tools and have been cited widely in the literature. Initially designed for BSL-3 (Biological Safety Level) laboratories, the [Precellys® Evolution](#) makes it possible to efficiently homogenize a number of samples using an assortment of different-sized tubes, from 0.5 ml to 15 ml and it guarantees identical homogenization in each of the tube positions.

Zymo Research's suite of ZymoBIOMICS® products addresses the complete Microbiomics workflow; from sample collection, DNA extraction, library prep, sequencing, through bioinformatics and final analysis. The ZymoBIOMICS® Microbial Community Standard contains three easy-to-lyse Gram-negative bacteria, five tough-to-lyse Gram-positive bacteria, and two tough-to-lyse yeasts. These accurately characterized microbial standards, enable the identification of exposure to artifacts, errors, and bias in microbiomics or metagenomics workflows, specifically 16S rRNA and shotgun-based sequencing approaches. Used in conjunction with the microbial standards, Zymo Research offers low-bioburden DNA isolation kits tuned for complete lysis of microbes with an innovative bead and buffer system.

Bead beating is an accepted method to lyse various microbes but until now we have not been able to accurately assess the efficiency of the lysis. "With the combination of [Bertin's homogenizer](#) and Zymo Research's Microbial Community Standard and [DNA Miniprep Kit](#) researchers and clinicians now have a rapid, complete homogenization procedure at their disposal " said Marc Van Eden, Vice President of Business Development at Zymo Research Corp. "There are quite a few homogenizing technologies on the market and until now, very little scrutiny placed on their ability to yield complete microbial lysis. That is until now. The ZymoBIOMICS® Microbial Community Standard now lets the researcher test for themselves the "completeness" of their lysis step so accommodations can be made to their workflow for accuracy and reproducibility sake".

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For more information about Zymo Research's ZymoBIOMICS® Microbial Community Standards, go to Zymo Research's [website](#) or email info@zymoresearch.com. For more information about Bertin' Precellys Evolution Homogenizer and other sample preparation products, go to their [website](#).

About Bertin Technologies

[Bertin Technologies](#), a subsidiary of CNIM Group, is based in Montigny-le-Bretonneux, France and works in four major fields: systems and instrumentation, consulting and engineering, information technology, pharmaceuticals, and biotechnology.

www.bertin-technologies.com

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[Bertin Instruments](#), a subsidiary of Bertin Technologies, is dedicated to innovative measurement and sampling for key worldwide markets, such as:

- Lab Equipment (sample preparation, air sampler, cell imaging)
- Nuclear Instrumentation (radon professional monitoring, environmental radiation monitoring systems, radiation portal monitors, health physics), and
- Defense, Security, and Safety (gas detection, optronics).

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About Zymo Research Corp.

[Zymo Research Corp.](#) is a privately held company based in Irvine, California, USA. Since its inception in 1994, it has been serving the academic and biopharmaceutical scientific communities by providing DNA and RNA purification products. Their goal is to help scientists reduce time in the lab by eliminating steps and making the entire DNA/RNA extraction process simpler and faster. In addition to the nucleic acid purification products, Zymo Research also offers genetic, epigenetic and transcriptome analysis services. Zymo Research provides high-quality products that are simple to use yet robust in their performance. For more information, please visit www.zymoresearch.com. Follow Zymo Research Corp. on [Facebook](#), [LinkedIn](#), [Twitter](#), and [Instagram](#).

Trademarks:

All trademarks are the property of their respective owners. Precellys is a registered trademark of Bertin Technologies. The Zymo Research Corp. trademark, with its design elements including the stylized three-shaded ovals (budding yeast), and the words “The Beauty of Science is to Make Things Simple” and ZymoBIOMICS are registered trademarks of Zymo Research Corp.

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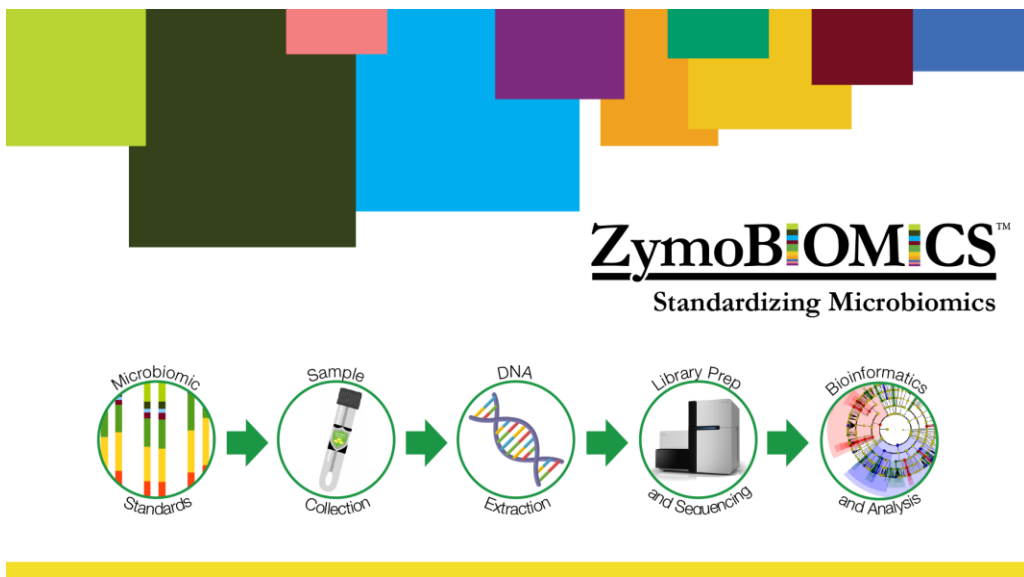


Photo Caption: *Infographic showing the ZymoBIOMICS® workflow from sample collection to analysis.*

Note to Editors:

Photo available upon request. Please contact Sheila Brann – sbrann@kiwi-comm.com



Photo Caption: *Picture showing the Precellys® & Cryolys Evolution tissue homogenizer equipment on the bench*

Note to Editors:

Photo available upon request. Please contact Frédérique Vigezzi – frederique.vigezzi@gootenberg.fr