

Life Technologies introduces Ion AmpliSeqT Community Panels

The Associated Press

Life Technologies Corporation (NASDAQ: LIFE) today announced Ion AmpliSeqT Community Panels, a community-driven solution to gene panel sequencing that leverages the expertise of scientific thought leaders and the Ion Community to create gene panels for conditions ranging from cancer to inherited diseases. Life Technologies also announced an upgrade to its Ion ReporterT Software, which further simplifies sequencing data analysis and interpretation with an automated point-and-click workflow that makes informatics accessible to everyone.

Ion AmpliSeqT Community Panels are built on the same breakthrough technology that powers the Ion AmpliSeqT Ready-to-Use Panels and the Ion AmpliSeqT Custom Panels. Since introduction just a year ago, Ion AmpliSeqT Ready-to-Use Panels for over 40,000 reactions have been sold for cancer and inherited disease research. Additionally, in just seven months more than 900 scientists have designed their own Ion AmpliSeqT Custom Panels online with Ion AmpliSeqT Designer on ampliseq.com, a simple web-based assay design tool.

Ion AmpliSeqT Community Panels are developed in collaboration with leading scientists who draw on their expertise in a specific disease area to select gene content for panels. These panels are then verified and made available to the entire Ion Community. Users have the option of adding or removing gene content to precisely fit their research needs, providing the ultimate flexibility.

One of the first panels was developed by eight leading European researchers who worked together with Life Technologies scientists to develop a 22-gene Ion AmpliSeqT Community Panel for lung and colon cancer. [Click here](#) to see a video interview with the OncoNetwork members. The panel analyzes more than 500 mutations in a single-tube assay that requires just 10 ng of DNA input per primer pool, about 25-fold less than alternative gene panel approaches. The Ion AmpliSeqT workflow is a simple PCR reaction that takes just 3.5 hours turn-around time.

"Using classical methods to screen for mutations one at a time requires so much DNA sample, you often can't look at all the mutations you want," said Dr. Pierre Laurent-Puig, M.D., Ph.D., Professor at the Paris - Descartes University Medical School and a member of the OncoNetwork Consortium. "We have developed a tool that allows us to characterize tumors very easily, using only 10 ng of sample to screen more than 500 COSMIC mutations. Having these kits in our hands will accelerate throughput of the characterization of tumors and make personalized medicine a reality." The research institutions that developed the panel - dubbed the OncoNetwork - include Centro Ricerche Oncologiche Mercogliano, Italy; Leiter Genetik / Molekularbiologie Viollier AG, Switzerland; University of Warwick, UK;

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Institut Gustave Roussy France; Radboud University Nijmegen Medical Centre, The Netherlands; Universite Paris Descartes Centre, Universitaire des Saints-Peres, France; St James' Hospital, Dublin EIRE.

In addition to the OncoNetwork panel, Life Technologies is working with other leading researchers to develop new Ion AmpliSeqT Community Panels: Ion AmpliSeqT AML Panel, for acute myeloid Leukemia research; Ion AmpliSeqT BRCA1/2 Panel, for breast and ovarian cancer research; Ion AmpliSeqT Cardio Panel, for heart disease research; Ion AmpliSeqT CFTR Panel, for cystic fibrosis research and the Ion AmpliSeqT TP53 Panel, for cancer research. Ion AmpliSeqT Community Panels are verified by the same researchers who designed the gene content. All of these designs are available today for review at ampliseq.com. Join the 13,500-member Ion Community today to find out more about the program or to contribute to creating Ion AmpliSeqT Community Panels.

Sequencing for All: Point and click bioinformatics solution drives to the biology For many labs, the biggest hesitation in moving to Next Generation Sequencing (NGS) is analyzing and interpreting the flood of data that NGS can produce. Ion Torrent's new v1.2 of Ion Reporter Software radically simplifies NGS data analysis and interpretation with an automated point-and-click model that takes you from Ion semiconductor sequencing reads to an easy-to-understand annotated report, helping scientists understand the impact of genomic variants.

Ion ReporterT v1.2 enables users to rapidly process genomic data using predefined workflows optimized for each specific sequencing panel and for the most popular experimental designs, such as an oncology tumor-normal workflow and an inherited disease workflow for finding genetic abnormalities and novel variants in trios. Additionally, Ion ReporterT Software v1.2 includes a new collaborations feature that allows users to share samples, analyses, and results with trusted community members, as well as the latest in security protocols, e-signatures, and audit logs ensuring data security standards are met.

Ion ReporterT v1.2 is also now integrated with the Ingenuity@ Variant AnalysisT workflow to allow users to leverage the vast Ingenuity Knowledge Base@ to identify biologically relevant variants. Both Ion ReporterT Software 1.2 and the Ingenuity Variant Analysis workflow are available free of charge until the end of 2012. To learn more about how Ion ReporterT Software and Ingenuity are simplifying bioinformatics, come to the Ion Torrent User Group Meeting at ASHG in San Francisco on Thursday, Nov. 8.

Sequencing for All: An unprecedented pace of innovation Life Technologies has made tremendous progress on the products that it announced just eight weeks ago at the Ion World conference. The current and future products include the Ion ProtonT System and AvalancheT, a revolutionary 30-minute emulsion-free template preparation chemistry that will work on all Ion platforms and enable sample-to-answer workflow in under eight hours. To learn more about this unprecedented pace of innovation, come to the Ion Torrent Workshop at ASHG on Nov. 7 and hear from Ion Torrent Founder and CEO Dr. Jonathan Rothberg, as well as other leaders in sequencing.

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The Ion Torrent products discussed in this press release are for Research Use Only; not for use in diagnostic procedures.

About Life Technologies Life Technologies Corporation (NASDAQ: LIFE) is a global biotechnology company with customers in more than 160 countries using its innovative solutions to solve some of today's most difficult scientific challenges. Quality and innovation are accessible to every lab with its reliable and easy-to-use solutions spanning the biological spectrum with more than 50,000 products for agricultural biotechnology, translational research, molecular medicine and diagnostics, stem cell-based therapies, forensics, food safety and animal health. Its systems, reagents and consumables represent some of the most cited brands in scientific research including: Ion TorrentT, Applied Biosystems®, InvitrogenT, GIBCO®, Ambion®, Molecular Probes®, Novex®, and TaqMan®. Life Technologies employs approximately 10,400 people and upholds its ongoing commitment to innovation with more than 4,000 patents and exclusive licenses. LIFE had sales of \$3.7 billion in 2011. Visit us at our website: <http://www.lifetechnologies.com>.

Life Technologies' Safe Harbor Statement This press release includes forward-looking statements about our anticipated results that involve risks and uncertainties. Some of the information contained in this press release, including, but not limited to, statements as to industry trends and Life Technologies' plans, objectives, expectations and strategy for its business, contains forward-looking statements that are subject to risks and uncertainties that could cause actual results or events to differ materially from those expressed or implied by such forward-looking statements. Any statements that are not statements of historical fact are forward-looking statements. When used, the words "believe," "plan," "intend," "anticipate," "target," "estimate," "expect" and the like, and/or future tense or conditional constructions ("will," "may," "could," "should," etc.), or similar expressions, identify certain of these forward-looking statements. Important factors which could cause actual results to differ materially from those in the forward-looking statements are detailed in filings made by Life Technologies with the Securities and Exchange Commission. Life Technologies undertakes no obligation to update or revise any such forward-looking statements to reflect subsequent events or circumstances.

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