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Twist Bioscience Announces Microsoft Purchase of its Synthetic DNA for Digital Data Storage Research

April 28, 2016

- Company to Provide Ten Million Long Oligonucleotides for Encoding Digital Data -

SAN FRANCISCO, Calif. – April 27, 2016 – Twist Bioscience, a company accelerating science and innovation through rapid, high-quality DNA synthesis, today announced Microsoft Corp. has agreed to purchase ten million long oligonucleotides from Twist Bioscience to encode digital data.

Today, the vast majority of digital data is stored on media that has a finite shell life and periodically needs to be re-encoded. DNA is a promising storage media, as it has a known shell life of several thousand years, offers a permanent storage format and can be read for continuously decreasing costs," commented Emily M. Leproust, Ph.D., CEO of Twist Bioscience. "Our silicon-based DNA synthesis platform offers unmatched scale and product quality that vastly accelerates the ability to write DNA at a cost enabling data storage. We are thrilled to work with Microsoft, and University of Washington researchers, to address the growing challenge of digital data storage." "As our digital data continues to expand exponentially, we need new methods for long-term, secure data storage," said Doug Carmean, a Microsoft partner architect within the company's Technology and Research organization. "The initial test phase with Twist demonstrated that we could encode and recover 100 percent of the digital data from swriteric DNA. We're still years away from a commercially-viable product, but our early-tests with Twist demonstrate that in the future we'l be able to substantially increase the density and durability of data storage."

Using DNA for Digital Data Storage

The quantity of digital data is doubling approximately every two years yet the ability to store this data is not keeping pace. There is a drastic need for a new storage medium that effectively and accurately stores data. The recent convergence of affordable DNA sequencing and the scalability of Twist Bioscience's allicon-based DNA synthesis technique presents a new opcortainly enabling the dotes lifetiom. DNA is an accurately store of attractions of traditional digital storage media. There are not present a new opcortainly enabling the dotes lifetiom. DNA star astronge option. Using DNA sear an accurately storage media. There are not present and the scalability of Twist Bioscience's allicon-based DNA synthesis technique presents a new opcortainly enabling the dotes lifetiom. DNA star astronge option. Using DNA sear and the scalability of accurately storage media. Initiad lifetion and digital storage media. Initiad lifetion and the actual storage could last up to 2,000 years without deterioration according to a nexemption according to an accurate storage option accurate

About Twist Bioscience

AT Twist Bioscience, our expertise is accelerating science and innovation by leveraging the power of scale. We have developed a proprietary semiconductor-based synthetic DNA manufacturing process featuring a 10,000-well silicon platform capable of producing synthetic biology tools, including genes, oligonucleotide pools and variant libraries. By synthesizing DNA on allocn indexed on traditional Bitwell plates, platform overcomes the current inefficiencies of synthetic DNA production, and enables cost-efficience, rapid, high-quality and high-plates platform overcomes the current inefficiencies of synthetic DNA production, and enables cost-efficience, rapid, high-quality and high-plates platform overcomes the current inefficiencies of synthetic DNA production, and enables cost-efficience, rapid, high-quality and high throughput synthetic gene production, which in turn, expedience the develop, laukit, acceleration and data storage. For more information, plases with two knithbiocances on Twite Sing Distribution or Writer Feed Distributioners. Distributioners. Contacts

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