TeselaGen Partners with Berkeley Lab's Advanced Biofuels and Bioproducts Process Development Unit to Accelerate the Bioeconomy

Collaboration deploys the TeselaGen AI-enabled operating system to close the gap between promising research and large-scale fermentation-based production of renewable bioproducts

EMERYVILLE and SAN FRANCISCO, March 18 -- [TeselaGen Biotechnology](#) and the [Advanced Biofuels and Bioproducts Process Development Unit](#) (ABPDU) of the [Lawrence Berkeley National Lab](#) (Berkeley Lab) announced today a partnership to advance fermentation processing for next-generation renewable bioproducts. Under terms of the agreement, ABPDU will deploy the *TeselaGen*® artificial intelligence-enabled operating system for biotechnology and will use its data acquisition capabilities to organize complex datasets as its workflows scale from early-stage processes and into larger bioreactors.

"Biology has changed radically in the past two decades, growing from a descriptive discipline into a predictive science. With TeselaGen, we will be testing and perfecting the tools that enable collecting the large amounts of multimodal data needed to optimize the production of various renewable bioproducts," said Hector Garcia Martin, computational biologist staff scientist at Berkeley Lab.

"We're looking forward to working with TeselaGen to streamline the information flow throughout fermentation processing, which will help our partners accelerate time to market for their innovative products," added Deepti Tanjore, director of the ABPDU. "This collaboration is well aligned with our goal of closing the gap between promising research and large-scale production of bioproducts to support the bioeconomy."

TeselaGen integrates the power of AI with a single end-to-end platform for design, construction, data gathering and analysis of bioproduct performance, from pharmaceuticals to food and fabrics, significantly accelerating time to market and reducing costs. The platform's DESIGN, BUILD, TEST and DISCOVER modules enable researchers to effectively collaborate across organizations to design and build experiments, standardize and share data, and learn from project results.

"Acting as a test-bed for industry, ABPDU has been responsible for a number of important advances in the development of the bioeconomy, and has helped to create innovative commercial bioproducts across industries," said TeselaGen CEO Eduardo Abeliuk, PhD. "We are excited to be ABPDU's partner and look forward to working together to demonstrate how TeselaGen's tools can help industry commercialize products faster and more economically."

ABPDU's biological fermentation services utilize microorganisms and recombinant organisms to metabolize sugars and other ingredients to create precursors to biofuels and bioproducts. Its advanced fermentation capabilities have led to commercial products such as eco-friendly skis, animal-free collagens and the conversion of waste streams into bioenergy feedstock.

About ABPDU

ABPDU's mission is to expedite the commercialization of advanced, next-generation biofuels and bioproducts by providing industry-scale test beds. The Department of Energy's (DOE) Bioenergy Technologies Office established ABPDU as part of Lawrence Berkeley National Laboratory (Berkeley Lab) in 2009. Strategically located in the San Francisco Bay Area's bio-innovation hub, and part of Berkeley Lab, ABPDU is uniquely situated to enable the local and national bioeconomy. ABPDU has access to cutting-edge national research organizations, academic centers of excellence, and major industries.

About TeselaGen Biotechnology

TeselaGen has developed the first artificial intelligence-enabled operating system for biotechnology, enabling scientific organizations to commercialize high performance bioproducts - from pharmaceuticals to food to fabrics - faster and easier than ever. The *TeselaGen*® operating system connects biologists, lab technicians and bioinformaticians so that they can collaboratively design and build experiments, organize and standardize data and then test and continually learn. *TeselaGen* has been deployed by Fortune 50 companies and emerging innovators in biopharmaceuticals, agriculture, and specialty chemicals. The company is privately held and based in San Francisco, CA. For more information, visit www.teselagen.com

Contact

For TeselaGen
Michael Fero
President and COO, TeselaGen
(650-387-5932)
mike.fero@teselagen.com

For ABPDU
Deepti Tanjore PhD
Director, ABPDU
(510) 495-8031
ABPDU@lbl.gov

For Media
Susan Thomas
Principal, Endpoint Communications
susan@endpointcommunications.net
(619) 540-9195