

Genomatica Scales Bio-BDO Production, Achieves Demonstration-Scale Fermentation

On track to show market-leading economics and quality, with partner Tate & Lyle

SAN DIEGO, June 14, 2011 –

[Genomatica](#), a leader in sustainable chemicals, announced that it has successfully produced Bio-BDO from its first demonstration-scale fermentation, on schedule. The fermentation was performed in a 13,000 liter tank in Decatur, Ill., at the facility of [partner Tate & Lyle](#). This achievement comes just three months after the partnership agreement was announced. Continued success during the demonstration-scale stage will validate the design and basic engineering package for construction of the first commercial-scale plant.

“This marks another milestone on our rapid path to commercialization”, said [Christophe Schilling](#), CEO of Genomatica. “We expect to be in commercial production in late 2012, with world-scale plants in the U.S., Europe and Asia starting in 2014.”

Tate & Lyle, recognized leader in scale-up, confirms rapid progress and potential

“We are very pleased with the rapid scale-up of the Bio-BDO demonstration project at our Decatur plant,” said Matt Wineinger, President, Bulk Ingredients, Tate & Lyle. “The success of the first demonstration run is another important step toward Genomatica’s commercialization of this product.”



Shown here: Genomatica has successfully produced Bio-BDO at demonstration scale at the facility of partner Tate & Lyle in Decatur, Ill.

Genomatica progress recognized by DOE grant and at major conference and peer-reviewed science journal

Genomatica's progress has been repeatedly recognized in recent days, including:

- Winning a [Department of Energy grant](#), to convert biomass to BDO.
- An invitation for CEO Schilling to speak at the [Reuters 2011 Global Energy & Climate Change Summit](#) in Houston on June 13th. This marked the first time a sustainable chemicals company has been invited to a Reuters Summit, where Schilling joined a list of high-profile industry executives, including David Weidman, CEO, Celanese, and Jim Gallogly, CEO, LyondellBasell, to brief business editors and reporters for the Reuters news service.
- Publication of a feature article on Genomatica's technology in the peer-reviewed [Nature Chemical Biology](#), reflecting a level of broad significance and meeting the high standards for publication in scientific journals from the Nature Publishing Group. The article describes Genomatica's accomplishment – the first time that BDO, a major industrial chemical that is produced and sold in billions of pounds per year, has been made directly by a biological organism from renewable carbohydrate feedstocks.

In addition, at the recent [BIO World Congress](#) conference in Toronto, Genomatica disclosed it had achieved a milestone 100 grams per liter (100 g/L) in BDO production, more than five times greater than the result featured in the Nature Chemical Biology paper, providing a strong leading indicator of the superior economics Genomatica is planning to deliver. Additionally at the BIO conference, Genomatica spoke at a plenary session with partner [Mitsubishi Chemical](#); introduced another plenary session; and participated in three panel sessions, including one that presented an example of a complete renewables-based value chain, with Ford, SABIC, and partner Tate & Lyle.

About Genomatica

[Genomatica](#) is a leader in sustainable chemicals: 'greener' intermediate and basic chemicals made from renewable feedstocks, rather than oil and gas. The company aims to transform the chemical industry by making the exact same high-volume products at the heart of the trillion-dollar industry, but with better economics and a smaller environmental footprint. Genomatica was named one of '10 Big Green Ideas' by [Newsweek](#), and was featured on [Forbes.com](#).

Genomatica is in [demonstration-scale production](#) of its first product, [Bio-BDO](#), through a [strategic partnership with Tate & Lyle](#). BDO, an intermediate chemical with a \$4 billion market worldwide, is used to make spandex, automotive plastics, running shoes and more.

Genomatica's integrated bio-process engineering [platform](#) and extensive [intellectual property](#) allow it to rapidly develop organisms and processes to produce dozens of the highest-volume intermediate and basic chemicals from renewable feedstocks, like sugars, and later, from biomass and syngas.

Genomatica has [raised \\$84 million](#) from investors including Alloy Ventures, Bright Capital, Draper Fisher Jurvetson, Mitsubishi Chemical Corporation, Mohr Davidow Ventures, TPG Biotech, VantagePoint Venture Partners and Waste Management. Genomatica has announced agreements with Tate & Lyle, Mitsubishi Chemical, Gruppo M&G and Waste Management.

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