Synlogic Announces Abstract Accepted for Poster Presentation at the International Conference on Microbiome Engineering 2023

December 7, 2023

- Poster presentation on SYNB1353 program for homocystinuria includes findings from process improvements to improve activity of methionine degradation -

CAMBRIDGE, Mass., Dec. 07, 2023 (GLOBE NEWSWIRE) -- Synlogic, Inc. (Nasdaq: SYBX), a clinical-stage biotechnology company advancing novel, oral, non-systemically absorbed biotherapeutics to transform the care of serious diseases, announced that an abstract outlining the SYNB1353 program as a potential treatment for homocystinuria (HCU), including findings from fermentation process improvements to increase activity of methionine degradation, has been accepted and will be presented at the International Conference on Microbiome Engineering 2023, held in Berkeley, California on December 8th to 10th.

Poster presentation details are as follows:

- Title: Improvements of SYNB1353, an Engineered Bacteria for the Treatment of Homocystinuria Lead to Increased *In vitro* and *In vivo* Degradation of Methionine
- Date: Saturday, December 9, 2023
- Session & Time: Poster Session B, 11:35 am – 12:45 pm PST
- Presenter: David Lubkowicz, Ph.D., Head, Strain Engineering & Characterization and HCU Program Lead at Synlogic

For more information, please visit the conference website. The poster will be available following the conference on the Synlogic website.

About Homocystinuria (HCU) & SYNB1353

HCU is a rare metabolic disease characterized by extreme levels of homocysteine and caused by an inherited deficiency in an enzyme known as cystathionine beta-synthase (CBS). When CBS is absent, homocysteine builds up in the blood and urine, putting patients at risk of multisystem complications, including acute thromboembolic events, optical damage from lens dislocation, skeletal deficiencies, and neurocognitive impairments. Methionine (Met), an essential amino acid in dietary protein, is a required precursor to homocysteine, and a restrictive, low-Met diet is a standard treatment for lowering total homocysteine (tHcy). SYNB1353 is a novel, orally administered, non-systemically absorbed drug candidate designed to consume Met in the gastrointestinal tract, thereby lowering lower homocysteine levels in patients with HCU. It is the first drug candidate developed through a research collaboration between Synlogic and Ginkgo Bioworks and the first investigational medicine developed on Ginkgo's platform to enter the clinic. The U.S. Food and Drug Administration (FDA) has granted Rare Pediatric Disease Designation, Fast Track designation and Orphan Drug Designation (ODD) to SYNB1353 for the potential treatment of HCU. Synlogic holds worldwide development and commercialization rights to SYNB1353.

About Synlogic

Synlogic is a clinical-stage biotechnology company advancing novel, oral, non-systemically absorbed biotherapeutics to transform the care of serious diseases in need of new treatment options. The Company's late-stage pipeline is focused on rare metabolic diseases, led by labafenogene marselecobac (SYNB1934), currently being studied as a potential treatment for phenylketonuria (PKU) in Synpheny-3, a global, pivotal Phase 3 study. Additional product candidates address diseases including homocystinuria (HCU), enteric hyperoxaluria, gout, and cystinuria. This pipeline is fueled by the Synthetic Biotic platform, which applies precision genetic engineering to well-characterized probiotics. This enables Synlogic to create GI-restricted, oral medicines designed to consume or modify disease-specific metabolites – an approach well suited for PKU and HCU, both inborn errors of metabolism, as well as other disorders in which the disease–specific metabolites transit through the GI tract, providing validated targets for these Synthetic Biotics. Research activities include a partnership with Roche focused on inflammatory bowel disease (IBD), and a collaboration with Ginkgo Bioworks in synthetic biology, which has contributed to two pipeline programs to date. For more information, please visit www.synlogictx.com or follow us on Twitter, LinkedIn, Facebook or Instagram.

Forward Looking Statements

This press release contains "forward-looking statements" that involve substantial risks and uncertainties for purposes of the safe harbor provided by the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, included in this press release regarding strategy, future operations, clinical development plans, future financial position, future revenue, projected expenses, prospects, plans and objectives of management are forward-looking statements. In addition, when or if used in this press release, the words "may," "could," "should," "anticipate," "believe," "look forward, " "estimate," "expect," "focused on," "intend," "on track, " "plan," "predict" and similar expressions and their variants, as they relate to Synlogic, may identify forward-looking statements. Examples of forward-looking statements, include, but are not limited to, statements regarding the potential of Synlogic's approach to Synthetic Biotics to develop therapeutics to address a wide range of diseases including: inborn errors of metabolism and inflammatory and immune disorders; our expectations about sufficiency of our existing cash balance; the future clinical development of Synthetic Biotics; the approach Synlogic is taking to discover and develop novel therapeutics using synthetic biology; and the expected timing of Synlogic's clinical trials of labafenogene marselecobac (previously known as SYNB1934), SYNB1353, SYNB8802 and SYNB2081 and availability of clinical trial data. Actual results could differ materially from those contained in any forward-looking statements as a result of various factors, including: the uncertainties inherent in the clinical and preclinical development process; the ability of Synlogic to protect its intellectual property rights; and legislative, regulatory, political and economic developments, as well as those risks identified under the heading "Risk Factors"

in Synlogic's filings with the U.S. Securities and Exchange Commission. The forward-looking statements contained in this press release reflect Synlogic's current views with respect to future events. Synlogic anticipates that subsequent events and developments will cause its views to change. However, while Synlogic may elect to update these forward-looking statements in the future, Synlogic specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing Synlogic's view as of any date subsequent to the date hereof.

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Source: Synlogic, Inc.