November 13, 2017

Syros to Present New Preclinical Data on SY-1365 and on Identification of Potential Drug Targets in Triple Negative Breast Cancer at San Antonio Breast Cancer Symposium

CAMBRIDGE, Mass.--(BUSINESS WIRE)-- Syros Pharmaceuticals (NASDAQ: SYRS), a biopharmaceutical company pioneering the discovery and development of medicines to control the expression of disease-driving genes, today announced that the Company will present new preclinical data identifying potential biomarkers predictive of response to SY-1365, its first-in-class selective cyclin-dependent kinase 7 (CDK7) inhibitor currently in a Phase 1 clinical trial in advanced solid tumors, at the San Antonio Breast Cancer Symposium (SABCS) taking place December 5-9 in San Antonio. The Company will also present on the use of its gene control platform to analyze regulatory regions of the genome in triple negative breast cancer cells and identify potential new drug targets.

Details on the presentations are as follows:

Date & Time: Wednesday, December 6, from 5-7 p.m. CST
Presentation Title: *BCL2L1* (BCL-XL) expression and *MYC* super-enhancer positivity predict sensitivity to the covalent CDK7 inhibitor SY-1365 in triple negative breast cancer (TNBC) cell lines
Session Title: Treatment: Novel Targets and Targeted agents
Presenter: Nisha Rajagopal, Ph.D., Senior Scientist, Syros
Abstract Number: 1343
Location: Henry B. Gonzalez Convention Center, Hall 1

Date & Time: Thursday, December 7, from 7-9 a.m. CST
Presentation Title: Epigenomic analysis of cancer stem cell (CSC)-enriched triple-negative breast cancer (TNBC) populations reveals gene regulatory circuitry and novel tumor cell vulnerabilities
Session Title: Tumor cell and molecular biology: Epigenetics
Presenter: Matthew Guenther, Ph.D., Principal Scientist, Syros
Abstract Number: 1548
Location: Henry B. Gonzalez Convention Center, Hall 1

About Syros Pharmaceuticals
Syros Pharmaceuticals is pioneering the understanding of the non-coding region of the genome to advance a new wave of medicines that control expression of disease-driving genes. Syros has built a proprietary platform that is designed to systematically and efficiently analyze this unexploited region of DNA in human disease tissue to identify and drug novel

targets linked to genomically defined patient populations. Because gene expression is fundamental to the function of all cells, Syros' gene control platform has broad potential to create medicines that achieve profound and durable benefit across a range of diseases. Syros is currently focused on cancer and immune-mediated diseases and is advancing a growing pipeline of gene control medicines. Syros' lead drug candidates are SY-1425, a selective RARα agonist in a Phase 2 clinical trial for genomically defined subsets of patients with acute myeloid leukemia and myelodysplastic syndrome, and SY-1365, a selective CDK7 inhibitor in a Phase 1 clinical trial for patients with advanced solid tumors, including transcriptionally dependent cancers such as triple negative breast, small cell lung and ovarian cancers. Led by a team with deep experience in drug discovery, development and commercialization, Syros is located in Cambridge, Mass.

Cautionary Note Regarding Forward-Looking Statements

This press release contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995, including without limitation statements regarding theutility of potential biomarkers of response to SY-1365; the ability to identify new breast cancer targets; and the benefits of Syros' gene control platform. The words ‘‘anticipate,’’ ‘‘believe,’’ ‘‘continue,’’ ‘‘could,’’ ‘‘estimate,’’ ‘‘expect,’’ ‘‘intend,’’ ‘‘may,’’ ‘‘plan,’’ ‘‘potential,’’ ‘‘predict,’’ ‘‘project,’’ ‘‘target,’’ ‘‘should,’’ ‘‘would,’’ and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Actual results or events could differ materially from the plans, intentions and expectations disclosed in these forward-looking statements as a result of various important factors, including Syros' ability to: advance the development of its programs, including SY-1425 and SY-1365, under the timelines it projects in current and future clinical trials; demonstrate in any current and future clinical trials the requisite safety, efficacy and combinability of its drug candidates; replicate scientific and non-clinical data in clinical trials; successfully develop a companion diagnostic test to identify patients with relevant predictive biomarkers; obtain and maintain patent protection for its drug candidates and the freedom to operate under third party intellectual property; obtain and maintain necessary regulatory approvals; identify, enter into and maintain collaboration agreements with third parties; manage competition; manage expenses; raise the substantial additional capital needed to achieve its business objectives; attract and retain qualified personnel; and successfully execute on its business strategies; risks described under the caption “Risk Factors” in Syros' Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, which is on file with the Securities and Exchange Commission; and risks described in other filings that Syros makes with the Securities and Exchange Commission in the future. Any forward-looking statements contained in this press release speak only as of the date hereof, and Syros expressly disclaims any obligation to update any forward-looking statements, whether because of new information, future events or otherwise.

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