April 20, 2017

GlycoMimetics to Present New AML Clinical Data at ASCO 2017 Annual Meeting

ROCKVILLE, Md.--(BUSINESS WIRE)-- GlycoMimetics, Inc. (NASDAQ: GLYC) today announced that the company will provide an update on clinical data from its Phase 1 and 2 studies of GMI-1271 at the 2017 American Society for Clinical Oncology in Chicago. GMI-1271 is an antagonist of E-selectin, for which prior data has shown an emerging and differentiated efficacy profile.

Details of the ASCO presentations include:

Abstract #2520

Poster discussion. DeAngelo, D.J., et al. "GMI-1271, a Novel E-Selectin Antagonist, in Combination with Chemotherapy in Relapsed/Refractory AML." Session Title: Poster Discussion Session: Developmental Therapeutics—Clinical Pharmacology and Experimental Therapeutics, Monday, June 5, 11:30 a.m.-12:45 p.m. CT.

Presenter: Daniel J. DeAngelo, MD, PhD, Dana Farber Cancer Institute Director of Clinical and Translational Research, Adult Leukemia, and Institute Physician ; Harvard Medical School Associate Professor of Medicine

Abstract #2560

Poster. DeAngelo, D.J. et al. "GMI-1271, a Novel E-Selectin Antagonist, Combined with Induction Chemotherapy in Elderly Patients with Untreated AML." Session Title: Poster Session: Developmental Therapeutics—Clinical Pharmacology and Experimental Therapeutics. Monday, June 5, 8:00-11:30 a.m. CT.

Presenter: Dr. DeAngelo

The ASCO Annual Meeting 2017 takes place from June 2 to 5, at McCormick Place in Chicago. Meeting abstracts are available at ASCO's website.

About GlycoMimetics, Inc.

GlycoMimetics is a clinical-stage biotechnology company focused on cancer and sickle cell disease. GlycoMimetics' most advanced drug candidate, rivipansel, a pan-selectin antagonist, is being developed for the treatment of vaso-occlusive crisis in sickle cell disease and is being evaluated in a Phase 3 clinical trial being conducted by its strategic collaborator, Pfizer. GlycoMimetics' wholly-owned drug candidate, GMI-1271, an E-selectin antagonist, is being evaluated in an ongoing Phase 1/2 clinical trial as a potential treatment for AML and in a Phase 1 clinical trial in multiple myeloma. GlycoMimetics has also recently initiated a clinical trial with a third drug candidate, GMI-1359, a combined CXCR4 and E-selectin antagonist. GlycoMimetics is located in Rockville, MD in the BioHealth Capital Region. Learn more at www.glycomimetics.com.

Forward-Looking Statements

This press release contains forward-looking statements regarding GlycoMimetics' planned activities with respect to the clinical development of its drug candidate GMI-1271. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including the availability and timing of data from ongoing clinical trials, the uncertainties inherent in the initiation of future clinical trials, whether interim results from a clinical trial will be predictive of the final results of the trial or results of early clinical trials will be indicative of the results of future trials, expectations for regulatory approvals, availability of funding sufficient for GlycoMimetics' foreseeable and unforeseeable operating expenses and capital expenditure requirements, other matters that could affect the availability or commercial potential of GlycoMimetics' drug candidates and other factors discussed in the "Risk Factors" section of GlycoMimetics' Annual Report on Form 10-K that was filed with the U.S. Securities and Exchange Commission on February 29, 2016, and other filings GlycoMimetics makes with the Securities and Exchange Commission from time to time. In addition, the forward-looking statements included in this press release represent GlycoMimetics' views as of the date hereof. GlycoMimetics anticipates that subsequent events and developments may cause its views to change. However, while GlycoMimetics may elect to update these forward-looking statements at some point in the future, GlycoMimetics specifically disclaims any obligation to do so, except as may be required by law. These forward-looking statements should not be relied upon as

representing GlycoMimetics' views as of any date subsequent to the date hereof.

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