

November 3, 2016

Data from Three GlycoMimetics Drug Candidates to Be Highlighted at 58th Annual American Society of Hematology (ASH) Meeting

- | Oral presentation and six posters illustrate advancement of GlycoMimetics' pipeline
- | Poster presentation will update clinical data from on-going AML study of GMI-1271

ROCKVILLE, Md.--(BUSINESS WIRE)-- GlycoMimetics, Inc. (NASDAQ: GLYC) today announced that data from three drug candidates in its development pipeline will be presented at the 58th American Society of Hematology (ASH) Annual Meeting and Expo. The ASH meeting will take place December 3 to 6, 2016, at the San Diego Convention Center.

The oral presentation and six posters to be shared at the ASH meeting will review the results of pre-clinical and clinical research on the pan-selectin antagonist, rivipansel, that GlycoMimetics is developing in partnership with Pfizer, Inc.; the company's E-selectin antagonist, GMI-1271; and the company's dual E-selectin/CXCR4 antagonist, GMI-1359. The data presented will show significant progress in a clinical trial for acute myeloid leukemia (AML), pre-clinical data further expanding on the mechanism and potential for therapeutic benefit in sickle cell anemia, and pre-clinical data on effects of GMI-1359 in models of hematologic malignancies. The company will present updates with interim data from an on-going Phase 1/2 trial of GMI-1271 in patients with AML. This will include an update on patients enrolled in the Phase 1 portion of the trial as well as data on evaluable patients enrolled to date in the two Phase 2 arms of the study. The Phase 2 portion includes one arm enrolling patients with relapsed or refractory disease and one arm enrolling patients over the age of 60 with newly diagnosed disease.

"We are delighted to have multiple abstracts accepted at ASH, highlighting the success and breadth of our growing pipeline," said Rachel King, Chief Executive Officer of GlycoMimetics. "Our new clinical and preclinical data show the scientific rationale for continuing development of all three drug candidates, as well as significant momentum in our clinical program for GMI-1271 in AML."

Details of the data to be presented at ASH, including session times and locations, include:

Oral Presentation (submitted by Pfizer, Inc.)

Abstract #270-Rivipansel: A Small Pan-Selecting Antagonist Improves Cerebral Perfusion and Inhibits Leukocyte Adhesion and in Murine Sickle Cell Disease Model. Sunday, Dec. 4, 7:30-9:00 a.m. PT, Room 7AB.

Posters (all poster sessions are in the San Diego Convention Center, Hall G)

Abstract #4049--A Phase I/II Study of GMI-1271, a Novel E-Selectin Antagonist, in Combination with Induction Chemotherapy in Relapsed/Refractory and Elderly Previously Untreated Acute Myeloid Leukemia; Results to Date. Monday, Dec. 5, 6:00-8:00 p.m. PT. Poster Session

Abstract #3826--E-Selectin Antagonist GMI-1271 Shows a Favorable Safety, PK and Bleeding Profile in Phase I Studies of Healthy Volunteers. Monday, Dec. 5, 6:00-8:00 p.m. PT. Poster Session

Abstract #2823--Vascular E-Selectin Protects Leukemia Cells from Chemotherapy By Directly Activating Pro-Survival NF-Kb Signaling - Therapeutic Blockade of E-Selectin Dampens NF-Kb Activation. Sunday Dec. 4, 6:00-8:00 p.m. PT. Poster Session

Abstract #3519—Dual E-Selectin/CXCR4 Antagonist GMI-1359 Exerts Efficient Anti-Leukemia Effects in a FLT3 ITD Mutated Acute Myeloid Leukemia Patient-Derived Xenograph Murine Model. Sunday Dec. 4, 6:00-8:00 p.m. PT. Poster Session

Abstract #2826—Administration of the Dual E-Selectin/CXCR4 Antagonist, GMI-1359, Results in a Unique Profile of Tumor Mobilization from the Bone Marrow and Facilitation of Chemotherapy in a Murine Model of FLT3 ITD AML. Sunday Dec. 4, 6:00-8:00 p.m. PT. Poster Session

Abstract #2509--Rivipansel (GMI-1070) Inhibits E-Selectin Recognition of Sialyl LewisX Activation and Arrest of Human

The meeting abstracts are available at [ASH'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 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 candidates, rivipansel, GMI-1271 and GMI-1359. 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.

View source version on [businesswire.com](http://www.businesswire.com): <http://www.businesswire.com/news/home/20161103005973/en/>

GlycoMimetics, Inc.

Investor Contact:

Shari Annes, 650-888-0902

sannes@annesassociates.com

or

Media Contact:

Jamie Lacey-Moreira, 410-299-3310

jamielacey@presscommpr.com

Source: GlycoMimetics, Inc.

News Provided by Acquire Media