UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): November 2, 2021

GlycoMimetics, Inc.

(Exact name of registrant as specified in its charter)

Delaware

001-36177 (Commission File Number)

06-1686563 (IRS Employer Identification No.)

(State or other jurisdiction of incorporation)

> 9708 Medical Center Drive Rockville, MD 20850

(Address of principal executive offices, including zip code)

(240) 243-1201

(Registrant's telephone number, including area code)

N/A

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	Name of each exchange on which registered
Common Stock, \$0.001 par value	GLYC	The Nasdaq Stock Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \Box

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 2.02 Results of Operations and Financial Condition.

On November 2, 2021, GlycoMimetics, Inc. (the "*Company*") issued a press release announcing its financial results for the third quarter ended September 30, 2021. A copy of this press release is furnished herewith as Exhibit 99.1 to this Current Report and is incorporated herein by reference.

In accordance with General Instruction B.2. of Form 8-K, the information in this Item 2.02, and Exhibit 99.1 hereto, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "*Exchange Act*"), or otherwise subject to the liability of that section, nor shall it be deemed incorporated by reference in any of the Company's filings under the Securities Act of 1933, as amended (the "*Securities Act*"), or the Exchange Act, whether made before or after the date hereof, regardless of any incorporation language in such a filing, except as expressly set forth by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Exhibit Description									
99.1	Press Release, dated November 2, 2021, "GlycoMimetics Reports Highlights and									
	Financial Results for Third Quarter 2021"									

104 Cover Page Interactive Data File (the cover page XBRL tags are embedded within the Inline XBRL document)

2

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

GLYCOMIMETICS, INC.

Date: November 2, 2021

By: /s/ Brian M. Hahn

Brian M. Hahn Senior Vice President and Chief Financial Officer

3



GLYCOMIMETICS REPORTS HIGHLIGHTS AND FINANCIAL RESULTS FOR THIRD QUARTER 2021

- Significant progress achieved for lead investigational drug candidate uproleselan:
 - Robust enrollment momentum in the quarter indicates imminent completion of enrollment for Company-sponsored Phase 3 pivotal trial in patients with relapsed/refractory acute myeloid leukemia (AML); top line results anticipated after year-end 2022
 - Data showing high rate of Minimal Residual Disease (MRD) in evaluable relapsed/refractory AML patients were published in BLOOD, as part of a comprehensive review of the data set from the Company's Phase 1/2 trial evaluating uproleselan in both relapsed/refractory and newly diagnosed fit for chemo AML patient populations
 - ⁰ Completed manufacturing of uproleselan drug product registration batches
- Transition of new CEO, Harout Semerjian, completed
- Hosting a conference call and webcast today at 8:30 a.m. ET

ROCKVILLE, MD, November 2, 2021 — GlycoMimetics, Inc. (Nasdaq: GLYC) today reported its financial results for the quarter ended September 30, 2021 and highlighted recent events. Cash and cash equivalents at September 30, 2021 were \$101.9 million.

"I am excited about the strong momentum and opportunities we have in front of us. I am grateful for the dedication and perseverance of our employees and board of directors especially during my CEO transition period," commented Chief Executive Officer Harout Semerjian.

Operational Highlights

Uproleselan

- Enrollment of GlycoMimetics' pivotal Phase 3 trial in relapsed/refractory AML continued in the U.S., Canada, Australia and Europe at a robust pace throughout the third quarter of 2021. The Company anticipates imminent completion of enrollment with top line data anticipated after year-end 2022.
- The ongoing National Cancer Institute (NCI)-sponsored Phase 2/3 registration trial, designed to evaluate the use of uproleselan in newly diagnosed older adults with AML who are fit for chemotherapy is anticipated to complete enrollment of the Phase 2 portion by year-end, allowing for an interim Event-Free Survival analysis of 262 patients.
- Efficacy and safety data from a Phase 1/2 clinical study of uproleselan were published online September 16, 2021 in *BLOOD*. Investigators highlighted an analysis that reported an MRD negative rate of 69 percent in evaluable trial participants with relapsed/refractory AML, indicating an enhanced depth of response following addition of uproleselan to salvage therapy.
- The Company has had multiple interactions with the U.S. Food and Drug Administration (FDA) under the Breakthrough Therapy Designation to agree on key elements of the CMC program in advance of a new drug application (NDA) submission. Consistent with that guidance, uproleselan drug product registration batches have been completed.

GMI-1687

 The Company continued to advance GMI-1687 towards filing of an investigational new drug application (IND), anticipated in the first half of 2022. It has been shown in preclinical studies to be bioavailable via subcutaneous administration with potential clinical applications in vasoocclusive crisis of sickle cell disease as well as a potential life-cycle extension opportunity for uproleselan.

Management

• The GlycoMimetics Board of Directors appointed Harout Semerjian as Chief Executive Officer and President, effective August 6, 2021, to succeed retiring founder Rachel King, who is continuing to serve on the Company's board. Mr. Semerjian, a seasoned executive with strong oncology commercialization experience, now leads the Company as it advances its registrational trials for uproleselan in AML, accelerates planning for potential commercialization, and continues to build out the Company's pipeline.

Third Quarter 2021 Financial Results

- Cash position: As of September 30, 2021, GlycoMimetics had cash and cash equivalents of \$101.9 million as compared to \$137.0 million as of December 31, 2020.
- R&D Expenses: Research and development expenses increased to \$13.3 million for the quarter ended September 30, 2021 as compared to \$10.7 million for the quarter ended September 30, 2020. This increase was primarily due to an increase in clinical trial costs in the ongoing global Phase 3 clinical trial of uproleselan in individuals with relapsed/refractory AML.
- G&A Expenses: General and administrative expenses were \$4.1 million for the quarter ended September 30, 2021 and 2020.
- Shares Outstanding: Shares of common stock outstanding as of September 30, 2021 were 51,734,894.

The Company will host a conference call and webcast today at 8:30 a.m. ET. The dial-in number for the conference call is (844) 413-7154 for domestic participants and (216) 562-0466 for international participants, with participant code 2991493. Participants are encouraged to connect 15 minutes in advance of the call to ensure they are able to connect. A webcast replay will be available via the "Investors" tab on the GlycoMimetics website for 30 days following the call. A dial-in phone replay will be available for 24 hours after the close of the call by dialing (855) 859-2056 domestic participants and (404) 537-3406 for international participants, with participant code 2991493.

About Uproleselan

Discovered and developed by GlycoMimetics, uproleselan is an investigational, first-in-class, targeted inhibitor of E-selectin. Uproleselan (yoo' pro le' sel an), currently in a comprehensive Phase 3 development program in AML, has received Breakthrough Therapy Designation from the U.S. FDA and from the Chinese National Medical Products Administration for the treatment of adult AML patients with relapsed or refractory disease. Uproleselan is designed to block E-selectin (an adhesion molecule on cells in the bone marrow) from binding with blood cancer cells as a targeted approach to disrupting wellestablished mechanisms of leukemic cell resistance within the bone marrow microenvironment.

About GMI-1687

Discovered and developed by GlycoMimetics, GMI-1687 is a highly-targeted, highly-potent E-selectin antagonist that represents a potential life-cycle extension opportunity for uproleselan. It has been shown in preclinical studies to be bioavailable via subcutaneous administration, and could be a potentially self-administered drug to be used in treatment of AML. Additionally, data from recent oral presentations at major scientific conferences pointed to the potential for GMI-1687 as a selfadministered drug to treat vaso-occlusive crisis of sickle cell disease.

About GlycoMimetics, Inc.

GlycoMimetics is a clinical-stage biotechnology company discovering and developing glycobiologybased therapies for cancers, including acute myeloid leukemia (AML), and for inflammatory diseases with high unmet need. The Company's science is based on an understanding of the role that carbohydrates play on the surface of every living cell and applying its specialized chemistry platform to discover small molecule drugs, known as glycomimetics, which alter these carbohydrate-mediated pathways in a variety of disease states, including signaling in cancer and inflammation. As a leader in this space, GlycoMimetics is leveraging this unique targeted approach to advance its pipeline of wholly owned drug candidates, with the goal of developing transformative therapies for serious diseases. 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. These forward-looking statements include those relating to the planned or potential clinical development and commercialization of the Company's product candidates, as well as the presentation of data from preclinical studies and clinical trials, and the potential benefits and impact of the Company's drug candidates. Actual results may differ materially from those described in these forward-looking statements. For a further description of the risks associated with these statements, as well as other risks facing GlycoMimetics, please see the risk factors described in the Company's annual report on Form 10-K filed with the U.S. Securities and Exchange

Commission (SEC) on March 2, 2021, and other filings GlycoMimetics makes with the SEC from time to time. Forward-looking statements speak only as of the date of this release,

and GlycoMimetics undertakes no obligation to update or revise these statements, except as may be required by law

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GlycoMimetics, Inc. Condensed Statements of Operations (In thousands, except share and per share data)

	Thr	Three months ended September 30,		Nine Months ended September 30,				
		2021		2020		2021		2020
		(Unai	dite	d)	(Unaudited)		d)	
Revenue from collaboration								
and license agreements	\$	87	\$	1,000	\$	1,142	\$	10,000
Costs and expenses:								
Research and								
development expense		13,282		10,670		34,596		33,209
General and								
administrative expense		4,142		4,058		12,567		12,732
Total costs and								
expenses		17,424		14,728		47,163		45,941
Loss from operations		(17,337)		(13,728)		(46,021)		(35,941)
Interest income		5		5		15		477
Net loss and								
comprehensive loss	\$	(17,332)	\$	(13,723)	\$	(46,006)	\$	(35,464)
Net loss per common share								
 basic and diluted 	\$	(0.34)	\$	(0.29)	\$	(0.90)	\$	(0.79)
Weighted-average common								
shares outstanding – basic								
and diluted		51,564,674		47,511,818		51,266,955		44,962,886

GlycoMimetics, Inc. Balance Sheet Data (In thousands)

	September 30, 2021	De	December 31, 2020	
	(unaudited)			
Cash and cash equivalents	\$ 101,924	\$	137,035	
Working capital	94,473		125,845	
Total assets	107,945		142,832	
Total liabilities	11,379		14,613	
Total stockholders' equity	96,566		128,219	