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): October 4, 2022

GlycoMimetics, Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation)

001-36177 (Commission File Number) <u>06-1686563</u> (IRS Employer Identification No.)

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:

| Title of each class | <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.

Item 7.01. Regulation FD Disclosure.

A copy of a slide presentation that GlycoMimetics, Inc. (the "Company") plans to use for anticipated investor meetings is attached to this Current Report as Exhibit 99.1 and is incorporated herein solely for purposes of this Item 7.01 disclosure.

The information in this Item 7.01, including Exhibit 99.1 attached hereto, is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that Section. The information in this Item 7.01, including Exhibit 99.1 attached hereto, shall not be incorporated by reference into any registration statement or other document pursuant to the Securities Act of 1933, except as otherwise expressly stated in such filing.

Item 9.01. Exhibits.

(d) Exhibits

| Exhibit Number | Exhibit Description |
|-------------------|--|
| 99.1 | GlycoMimetics, Inc. Corporate Presentation, October 4, 2022 |
| 104 | Cover Page Interactive Data File (the cover page XBRL tags are embedded within the Inline XBRL document) |

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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: October 4, 2022

By: /s/ Brian M. Hahn

Brian M. Hahn Senior Vice President and Chief Financial Officer

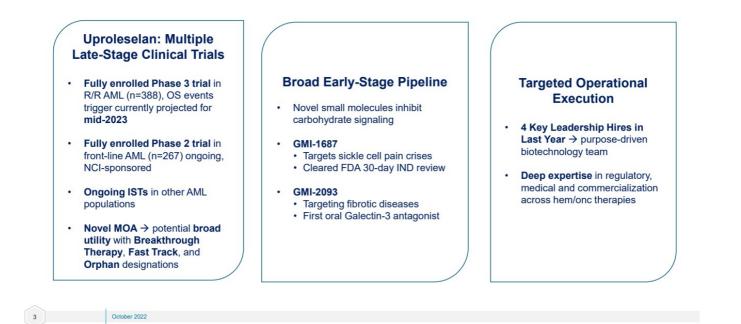


Forward Looking Statements



- To the extent that statements contained in this presentation are not descriptions of historical facts, they are forward-looking statements reflecting the current beliefs and expectations of the management of GlycoMimetics, Inc. ("GlycoMimetics," "we," "us," or "our"). Forward-looking statements contained in this presentation may include, but are not limited to: (i) the expected or projected timing of events and data readout from ongoing Phase 3 clinical trials of uproleselan; (ii) the planned or potential clinical development and potential benefits and impact of our drug candidates, including uproleselan; (iii) the timing of receipt of clinical data for our drug candidates; (iv) the potential safety, efficacy or clinical utility of our drug candidates; (v) the size of patient populations targeted by drug candidates we or our collaborators develop, and market adoption of our potential drug candidates by payors, physicians and patients; (vi) the likelihood and timing of regulatory filings, approvals or other anticipated interactions with regulatory authorities; (vii) our business and product development strategies, including our cash needs and expected cash runway; and (viii) any other statement containing terminology such as "may," "will," "should," "expects," "plans," "anticipates," "believes," "estimates," "predicts," "potential," "intends," or "continue," or the negative of these terms or other comparable terminology.
- Forward-looking statements are subject to known and unknown risks, uncertainties, and other factors that may cause our or our industry's actual results, levels of activity, performance, or achievements to be materially different from those discussed, implied or otherwise anticipated by such statements. You are cautioned not to place undue reliance on such forward-looking statements, which are current only as of the date of this presentation. Examples of risks, uncertainties and factors that may cause differences between our expectations and actual results include unexpected safety or efficacy data, unexpected side effects observed during preclinical studies or in clinical trials, lower than expected or enrollment rates in clinical trials, whether results of early clinical trials will be indicative of results from later clinical trials, changes in expected or existing competition or additional market research that may cause our expectations about market opportunity to change, changes in the regulatory environment for our drug candidates, failure of our collaborators to support or advance our collaborations or drug candidates, our need for future capital, the inability to protect our intellectual property, and the risk that we become a party to unexpected litigation or other disputes. For a further description of the risks associated with forward-looking 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 on March 3, 2022, as well as other reports we file with the U.S. Securities and Exchange Commission from time to time, including those factors discussed under the caption "Risk Factors" in such filings. Forward-looking statements peak only as of the date of this presentation, and GlycoMimetics under the caption is update or revise these statements, except as may be required by law.

Pioneers in glycobiology-based therapies for cancers and other rare diseases *Strong Foundation with Near-Term Catalysts and Broad Pipeline*



4 leadership hires in last 12 months to build team with commercialization expertise

GlycoMimetics



Edwin Rock, MD, PhD – Chief Medical Officer

- Prior CMO at Partner Therapeutics, VP at MacroGenics, Clinical project leader for successful BLA of margetuximab. Ex- Astex, Otsuka, GSK
- Former FDA Medical Officer, serving as medical reviewer for >50 active INDs and 7 approved anticancer drugs
 - Prior buyside analyst at Leerink Swann and Company, reporting to Jeffrey Leerink



Bruce Johnson – Chief Commercial Officer

- Former VP, Global Head Malignant Hematology, Novartis and Former VP and Head, Global Commercial Development, AbbVie
- >10 launches at the Global, US or regional level including Rydapt, Jakavi, Tasigna and Zometa
- Led lifecycle management and portfolio strategy for Venetoclax



Lisa DeLuca, PhD – Vice President, Regulatory Affairs and Quality Assurance

- Former VP, Regulatory Affairs at Celator Pharmaceuticals responsible for taking Vyxeos through clinical development, manufacturing optimization,
- NDA preparation, and the acquisition by Jazz Pharmaceuticals
- >27 years in Regulatory Affairs at both large pharma and small biotech companies working across multiple solid and liquid tumor types, including AML

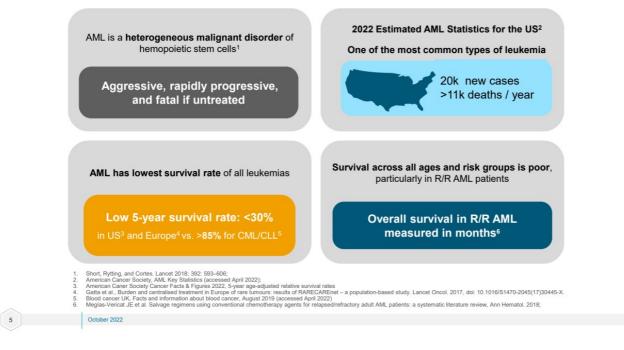


Deepak Tiwari, PhD – Vice President, Technical Operations

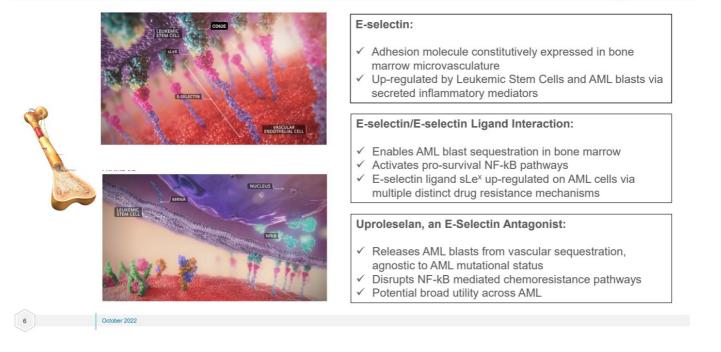
- Former VP and Head of CMC Operations at Rafael Pharmaceutical working on development of devimistat in multiple indications including R/R AML
- >25 years experience in both large and small molecules, including pre-formulation, formulation development, analytical characterization, process development, scale-up, technology transfer and process validation.

Unmet need continues to be high in AML, with low survival rates

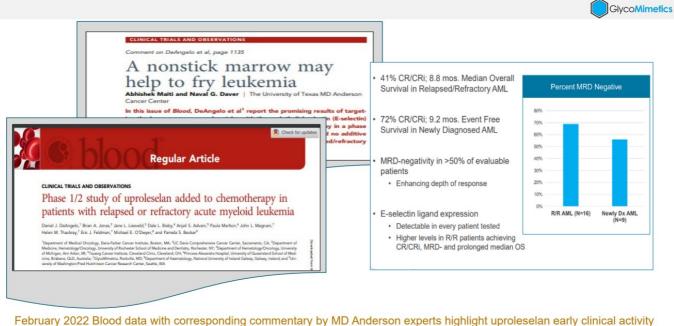








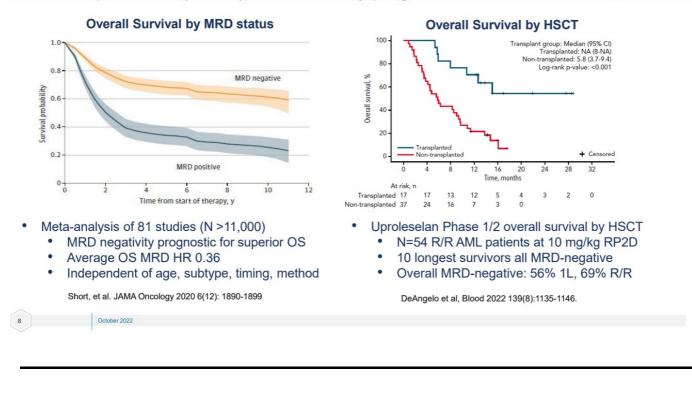
Phase 1/2 study of uproleselan added to salvage chemotherapy for relapsed or refractory AML

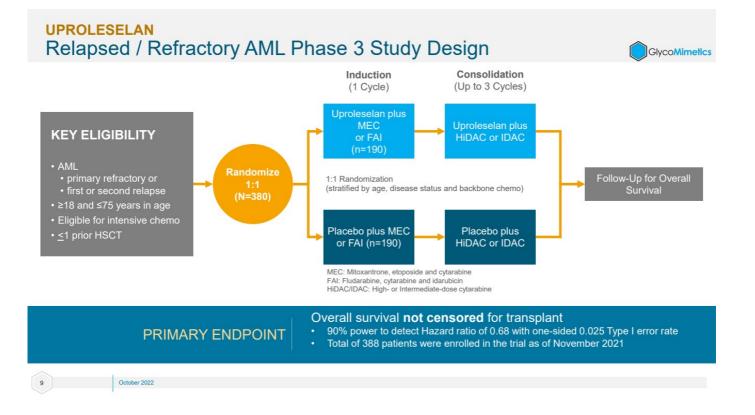


7 October 2022

Minimal Residual Disease (MRD) negativity and hematopoietic stem cell transplantation (HSCT) both favorably prognostic





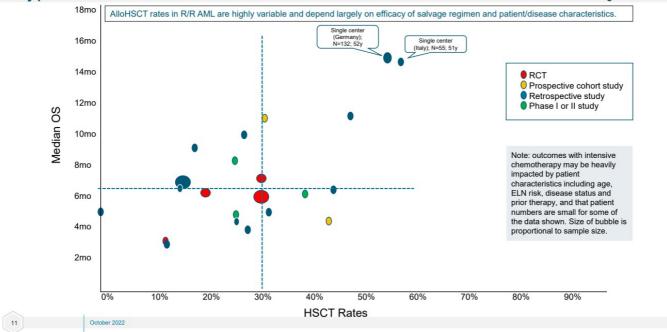




| | 204 Study | 204 Study |
|------------------------------------|--------------------|-------------------|
| | 301 Study N=388 | 201 Study N=66 |
| ge, median (range) | 58 (20-75) | 59 (26-84) |
| Refractory, n (%) | 130 (33.5%) | 22 (33%) |
| Relapsed, n (%) | 258 (66.5%) | 44 (67%) |
| Duration of prior remission ≤6 mos | 49 (19%) | 18 (41%) |
| rior Therapies | | |
| ISCT | 70 (18%) | 12 (18%) |
| ≥2 Induction Regimens | 63 (16%) | 22 (33%) |
| LN Risk Category | | |
| Adverse | 40% | 50% |
| ntermediate | 21% | 17% |
| avorable | 22% | 11% |
| Jnknown | 17% | 22% |

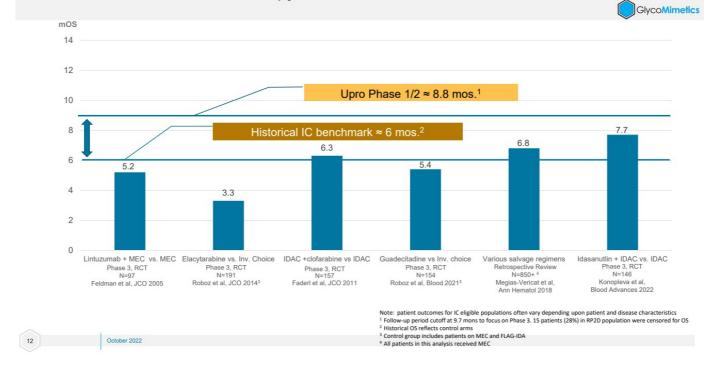
10 October 2022

Intensive Chemotherapy (IC) in R/R AML Typical ~6-7 months mOS and HSCT rates ~25-30%

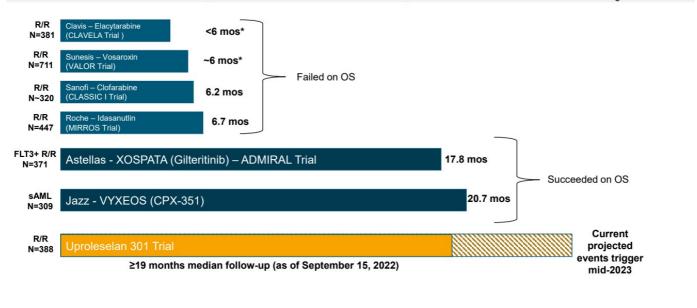


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Historical Intensive Chemotherapy benchmarks for mOS are ~6 months



Duration of Follow-Up and Outcomes in Key AML Trials

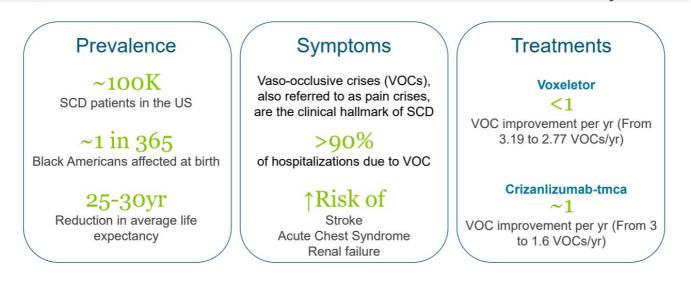


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 13
 October 2022
 * Median follow-up derived from protocol and/or final results as it was not included in the publication



Significant Unmet Need Remains in SCD

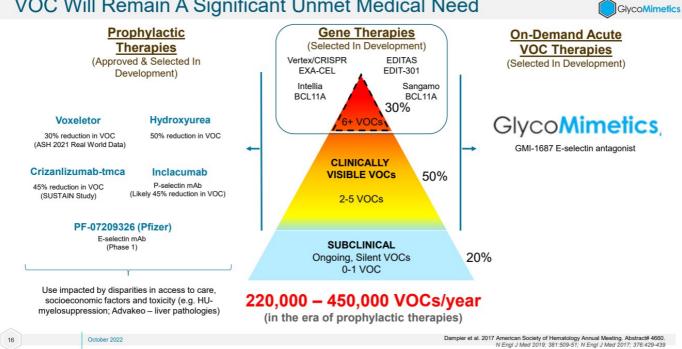


15 October 2022

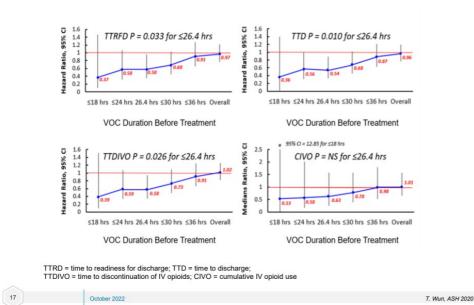
Centers for Disease Control and Prevention. Sickle cell disease (SCD) accessed May 4, 2021 Lanzkron S, et al. Pub Health Rep. 2013; 128:110-116. Ballas, S.K. American Journal of Hematology DOI: 10.1002/ajh.21443. Centers for Disease Control and Prevention. Sickle cell disease (SCD) accessed Aug. 2022: Sins WRr, et al., Biodo Adv. 2017; (19):1598-616

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Even with Prophylactic and Gene Therapy Approaches, Acute VOC Will Remain A Significant Unmet Medical Need



RESET Early Intervention Resulted In Clinical Benefit



For patients treated within first quartile of treatment timeliness (<u><</u>26.4hrs), a meaningful, statistically significant benefit was seen across study endpoints Reduced media TTRFD by Reduced m TTD by -

GlycoMimetics



GMI-1687 leverages years of research to empower patients to take control of their disease



