October 5, 2021

Graphite Bio Announces Upcoming Presentation at 49th Annual Sickle Cell Disease Association of America National Convention

SOUTH SAN FRANCISCO, Calif.--(BUSINESS WIRE)-- Graphite Bio, Inc. (Nasdaq: GRPH), a clinical-stage, next-generation gene editing company focused on therapies that harness targeted gene integration to treat or cure serious diseases, today announced an abstract related to the company's sickle cell disease (SCD) research has been accepted for poster presentation during the 49th Annual Sickle Cell Disease Association of America (SCDAA) National Convention, taking place virtually Oct.12-16, 2021.

Details of Graphite Bio's poster presentation are as follows:

Poster Session: Basic Science and Translational Research
Abstract: Preclinical Data in Support of CEDAR, A Phase 1/2 Study of Ex-Vivo Autologous Gene Corrected (HbS to HbA) Hematopoietic Stem Cells to Treat Severe Sickle Cell Disease
Presenter: Premanjali Lahiri, Director, Process Development at Graphite Bio
Date/Time: October 12 at 1-2 p.m. ET

About Sickle Cell Disease (SCD)

SCD is a serious, life-threatening inherited blood disorder that affects approximately 100,000 people in the United States and millions of people around the world, making it the most prevalent monogenic disease worldwide. SCD is caused by a single mutation in the beta-globin gene that leads to red blood cells that are responsible for delivering oxygen to tissues and organs throughout the body to become misshapen, resulting in anemia, blood flow blockages, intense pain, increased risk of stroke and organ damage, and reduced life span of approximately 30 years. Despite advancements in treatment and care, progressive organ damage continues to cause early mortality and severe morbidity, highlighting the need for curative therapies.

About GPH101

GPH101 is an investigational next-generation gene-edited autologous hematopoietic stem cell (HSC) therapy designed to directly correct the genetic mutation that causes sickle cell disease (SCD). GPH101 is the first investigational therapy to utilize a highly differentiated gene correction approach that seeks to efficiently and precisely correct the mutation on the beta-globin gene to decrease sickle hemoglobin (HbS) production and restore normal adult hemoglobin (HbA) expression, thereby potentially curing SCD.

Graphite Bio is evaluating GPH101 in the CEDAR trial, an open-label, multi-center Phase 1/2

clinical trial designed to assess the safety, engraftment success, gene correction rates, total hemoglobin, as well as other clinical and exploratory endpoints and pharmacodynamics in patients with severe SCD.

About Graphite Bio

Graphite Bio is a clinical-stage, next-generation gene editing company harnessing high efficiency precision gene correction to develop a new class of therapies to potentially cure a wide range of serious and life-threatening diseases. Graphite Bio is pioneering a precision gene editing platform that could enable a variety of applications to transform human health and achieve one of medicine's most elusive goals: to precisely "find & replace" any gene in the genome. Graphite Bio's platform allows it to precisely correct mutations, replace entire disease-causing genes with normal genes, or insert new genes into predetermined, safe locations. The company was co-founded by academic pioneers in the fields of gene editing and gene therapy, including Maria Grazia Roncarolo, M.D., and Matthew Porteus, M.D., Ph.D.

Learn more about Graphite Bio by visiting www.graphitebio.com and following the company on LinkedIn.

Forward-Looking Statements

Statements we make in this press release may include statements which are not historical facts and are considered forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). These statements may be identified by words such as "aims," "anticipates," "believes," "could," "estimates," "expects," "forecasts," "goal," "intends," "may," "plans," "possible," "potential," "seeks," "will," and variations of these words or similar expressions that are intended to identify forward-looking statements. Any such statements in this press release that are not statements of historical fact, including statements regarding the clinical and therapeutic potential of our gene editing platform and our product candidates, and the timing for enrollment of the first patient in our Phase 1/2 clinical trial of GPH101 and the availability of initial proof-of-concept data, may be deemed to be forward-looking statements. We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Exchange Act and are making this statement for purposes of complying with those safe harbor provisions.

Any forward-looking statements in this press release are based on Graphite Bio's current expectations, estimates and projections only as of the date of this release and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements, including the risk that we may encounter delays in patient enrollment and in the initiation, conduct and completion of our planned clinical trials. These risks concerning Graphite Bio's programs and operations are described in additional detail in its periodic filings with the SEC, including its quarterly report on Form 10-Q filed with the SEC on August 12, 2021. Graphite Bio explicitly disclaims any obligation to update any forward-looking statements except to the extent required by law.

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Company Contact:
Stephanie Yao
VP, Communications and Investor Relations
443-739-1423
syao@graphitebio.com

Investor Relations:
Stephanie Ascher
Stern IR, Inc.
212-362-1200
ir@graphitebio.com

Media Contact:
Christy Curran
Sam Brown, Inc.
615-414-8668
media@graphitebio.com

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