Jasper Therapeutics Announces Oral Presentation of Positive Final Results from Phase 1 Study of Briquilimab in Patients with AML or MDS Undergoing Hematopoietic Cell Transplant at ASH 2023

November 2, 2023

REDWOOD CITY, Calif., Nov. 02, 2023 (GLOBE NEWSWIRE) -- Jasper Therapeutics, Inc. (Nasdaq: JSPR) (Jasper), a biotechnology company focused on the development of briquilimab, a novel antibody therapy targeting c-Kit (CD117) to address mast cell driven diseases such as chronic spontaneous urticaria (CSU) and chronic inducible urticaria (CIndU), as well as lower to intermediate risk myelodysplastic syndromes (LR-MDS) and novel stem cell transplant conditioning regimens, today announced that positive final results from the Phase 1 study of briquilimab in combination with fludarabine and low-dose irradiation (Flu/TBI) conditioning in older adults with acute myeloid leukemia (AML) in complete remission or myelodysplastic syndromes (MDS) undergoing allogeneic hematopoietic cell transplant (HCT) will be presented during an oral session at the America Society of Hematology (ASH) 2023 Annual Meeting & Exposition, being held December 9-12, 2023, in San Diego, CA.

The study being presented demonstrated that a regimen of briquilimab plus Flu/TBI leads to successful engraftment of donor blood stem cell without the associated short and long-term toxicities that accompany busulfan-based regimens commonly used in transplant of donor or gene-corrected cells. Based on its mechanism of action, briquilimab is known to potently synergize with radiation, leading to stem cell depletion without increasing off-target toxicity.

“We are pleased to be able to present positive final results from this study in an oral presentation at the ASH Annual Meeting, which support a favorable safety profile for briquilimab as well as its clinical potential in a variety of indications and patient types,” said Edwin Tucker, M.D., Chief Medical Officer of Jasper. “While we have more recently prioritized our development efforts in addressing mast cell diseases, we continue to enroll a Phase 1 trial evaluating briquilimab as a second-line therapy in subjects with LR-MDS and look forward to presenting data from that study next year.”

Details of the presentation are as follows:
Abstract Title: Final Results from Phase 1 Study of Briquilimab, an Anti-CD117 Monoclonal Antibody, in Combination with Low Dose Irradiation and Fludarabine Conditioning, Shows Durable Remissions in Older Adults with Acute Myeloid Leukemia in Complete Remission and Myelodysplastic Syndrome Undergoing Allogeneic Hematopoietic Cell Transplantation
Publication Number: 470
Session Number/Title: 721. Allogeneic Transplantation: Conditioning Regimens, Engraftment and Acute Toxicities: Novel Conditioning Regimens for Myeloid Malignancies
Date / Time: Sunday, December 10, 2023; 9:30 a.m. – 11:00 a.m. PST
Presenting Author: Dr. Arpita Gandhi, M.D., M.S., Assistant Professor of Medicine, Division of Hematology/Medical Oncology, Oregon Health & Science University School of Medicine

About Briquilimab

Briquilimab (formerly JSP191) is a targeted aglycosylated monoclonal antibody that blocks stem cell factor from binding to the cell-surface receptor c-Kit, also known as CD117, thereby inhibiting signaling through the receptor. This inhibition disrupts the critical survival signal, leading to the depletion of the mast cells via apoptosis which removes the underlying source of the inflammatory response in mast cell driven disease such as chronic urticaria. Jasper intends to start clinical studies of briquilimab as a primary treatment in Chronic Spontaneous Urticaria as well as in Chronic Inducible Urticaria. Briquilimab is also currently in clinical studies as a treatment for patients with Low to Intermediate Risk myelodysplastic syndromes (MDS) and as a conditioning agent for cell and gene therapies for rare diseases. To date, briquilimab has a demonstrated efficacy and safety profile in more than 145 dosed participants and healthy volunteers, with clinical outcomes as a conditioning agent in severe combined immunodeficiency (SCID), AML, MDS, Fanconi anemia (FA), and sickle cell disease (SCD).

About Jasper

Jasper is a clinical-stage biotechnology company developing briquilimab, a monoclonal antibody targeting c-Kit (CD117) as a therapeutic for chronic mast and stem cell diseases such as chronic urticaria and lower to intermediate risk MDS and as a conditioning agent for stem cell transplants for rare diseases such as SCD, FA and SCID. To date, briquilimab has a demonstrated efficacy and safety profile in more than 145 dosed participants and healthy volunteers, with clinical outcomes as a conditioning agent in SCID, AML, MDS, FA, and SCD. For more information, please visit us at www.jaspertherapeutics.com.

Forward-Looking Statements

Certain statements included in this press release that are not historical facts are forward-looking statements for purposes of the safe harbor provisions under the United States Private Securities Litigation Reform Act of 1995. Forward-looking statements are sometimes accompanied by words such as “believe,” “may,” “will,” “estimate,” “continue,” “anticipate,” “intend,” “expect,” “should,” “would,” “plan,” “predict,” “potential,” “seem,” “seek,” “future,” “outlook” and similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements include, but are not limited to, statements regarding briquilimab’s potential, including its ability to potently synergize with radiation, leading to stem cell depletion without increasing off-target toxicity, its promising safety profile and its clinical potential in a variety of indications and patient types, the development of briquilimab for CSU, CIndU, LR-MDS and novel stem cell transplant conditioning regimens, and Jasper’s expectations regarding its Phase 1 trial evaluating briquilimab as a second-line therapy in subjects with LR-MDS, including the expected timing for presenting data for the trial. These statements are based on various assumptions, whether or not identified in this press release, and on the current expectations of Jasper and are not predictions of actual performance. These forward-looking statements are provided for illustrative purposes only and are not intended to serve as, and must not be relied on by an investor as, a guarantee, an assurance, a prediction or a definitive statement of fact or

probability. Many actual events and circumstances are beyond the control of Jasper. These forward-looking statements are subject to a number of risks and uncertainties, including general economic, political and business conditions; the risk that the potential product candidates that Jasper develops may not progress through clinical development or receive required regulatory approvals within expected timelines or at all; the risk that clinical trials may not confirm any safety, potency or other product characteristics described or assumed in this press release; the risk that Jasper will be unable to successfully market or gain market acceptance of its product candidates; the risk that prior study results may not be replicated; the risk that Jasper's product candidates may not be beneficial to patients or successfully commercialized; patients' willingness to try new therapies and the willingness of physicians to prescribe these therapies; the effects of competition on Jasper's business; the risk that third parties on which Jasper depends for laboratory, clinical development, manufacturing and other critical services will fail to perform satisfactorily; the risk that Jasper's business, operations, clinical development plans and timelines, and supply chain could be adversely affected by the effects of health epidemics; the risk that Jasper will be unable to obtain and maintain sufficient intellectual property protection for its investigational products or will infringe the intellectual property protection of others; and other risks and uncertainties indicated from time to time in Jasper's filings with the SEC, including its Annual Report on Form 10-K for the year ended December 31, 2022 and any subsequent Quarterly Reports on Form 10-Q . If any of these risks materialize or Jasper's assumptions prove incorrect, actual results could differ materially from the results implied by these forward-looking statements. While Jasper may elect to update these forward-looking statements at some point in the future, Jasper specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing Jasper's assessments of any date subsequent to the date of this press release. Accordingly, undue reliance should not be placed upon the forward-looking statements.

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