

Shuttle Pharmaceuticals Expands Laboratory Space to Advance Drug Development Pipeline and Diagnostic Capabilities

ROCKVILLE, Md., Feb. 23, 2023 — Shuttle Pharmaceuticals Holdings, Inc. (Nasdaq: SHPH), a discovery and development stage specialty pharmaceutical company focused on improving the outcomes of cancer patients treated with radiation therapy (RT), today announced it has entered an agreement to lease new laboratory and office space, commencing in June 2023, to complement the development of the Company's lead drug candidates and accelerate broader diagnostic capabilities on predictive biomarkers. The new laboratory space, located in Gaithersburg, Maryland, is located within the Maryland Biotech Corridor.



Shuttle Pharma's platform of sensitizers offers a pipeline of product candidates designed to address the urgent clinical need for new radiation sensitizer agents. The Company's pipeline includes Ropidoxuridine, its lead clinical sensitizer drug candidate, to sensitize rapidly growing cancer cells and selective histone deacetylase inhibitors to sensitize cancer cells and stimulate the immune system. In addition, the Company has also pursued research related to the development of human cell cultures for health disparities studies and predictive biomarkers of radiation late effects through awards received from the National Institutes of Health's National Cancer Institute for Phase I and II Small Business Innovation Research contracts.

"The expansion of our laboratory space is critical to the advancement of our drug development pipeline and acceleration of our broader diagnostic capabilities on predictive biomarkers," commented Shuttle Pharma's Chairman and CEO, Anatoly Dritschilo, M.D.

The Company is advancing its planned Phase II clinical trial of Ropidoxuridine in brain cancer patients undergoing radiation therapy for glioblastoma. In September 2022, the Company

announced it entered into an agreement with TCG GreenChem, Inc. to manufacture Ropidoxuridine, the Company's lead clinical sensitizer drug candidate, for use in formulating the drug product for testing in clinical trials of Ropidoxuridine and RT of cancers. In November 2022, Shuttle announced it had engaged Theradex Oncology, a leading clinical research organization, to help prepare for its upcoming clinical study of Ropidoxuridine. The Company is preparing the Investigational New Drug application for the study with an expectation of final submission to the FDA in the second quarter of 2023.

About Shuttle Pharmaceuticals

Founded in 2012 by faculty members of the Georgetown University Medical Center, Shuttle Pharmaceuticals is a discovery and development stage specialty pharmaceutical company focused on improving the outcomes for cancer patients treated with radiation therapy (RT). Our mission is to improve the lives of cancer patients by developing therapies that are designed to maximize the effectiveness of RT while limiting the side effects of radiation in cancer treatment. Although RT is a proven modality for treating cancers, by developing radiation sensitizers, we aim to increase cancer cure rates, prolong patient survival and improve quality of life when used as a primary treatment or in combination with surgery, chemotherapy and immunotherapy. For more information, please visit our website at www.shuttlepharma.com.

Safe Harbor Statement

Statements in this press release about future expectations, plans and prospects, as well as any other statements regarding matters that are not historical facts, may constitute "forward-looking statements." These statements include, but are not limited to, statements concerning the development of our company. The words "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "plan," "potential," "predict," "project," "should," "target," "will," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including factors discussed in the "Risk Factors" section of Shuttle Pharma's IPO prospectus filed with the SEC on August 31, 2022, and any risk factors set forth in the Company's Quarterly Report on Form 10-Q filed with the SEC on November 14, 2022, or any other SEC filings. Any forward-looking statements contained in this press release speak only as of the date hereof and, except as required by federal securities laws, Shuttle Pharmaceuticals specifically disclaims any obligation to update any forward-looking statement, whether as a result of new information, future events or otherwise.

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