



Deciphera Pharmaceuticals Initiates a Phase 1b/2 Clinical Trial of Rebastinib in Combination with Paclitaxel to Assess Safety, Tolerability, Pharmacokinetics and Efficacy in Patients with Advanced or Metastatic Solid Tumors

October 23, 2018

- Rebastinib is a Potent and Selective Inhibitor of the TIE2 kinase, the Receptor for Angiopoietins, an Important Family of Vascular Growth Factors in the Tumor Microenvironment -

WALTHAM, Mass.--(BUSINESS WIRE)--Oct. 23, 2018-- Deciphera Pharmaceuticals, Inc. (NASDAQ:DCPH), a clinical-stage biopharmaceutical company focused on addressing key mechanisms of tumor drug resistance, announced today that it has initiated an open-label, multicenter, Phase 1b/2 study of rebastinib in combination with paclitaxel to assess safety, tolerability, pharmacokinetics and efficacy in patients with advanced or metastatic solid tumors.

“We are excited to initiate this Phase 1b/2 clinical trial of rebastinib, our small molecule switch control inhibitor of TIE2,” said Michael D. Taylor, Ph.D., Deciphera’s President and Chief Executive Officer. “In preclinical testing rebastinib has shown activity as a single agent and when combined with paclitaxel, we observed synergistic reductions in circulating tumor cells and ablating distant metastases. As a result, we believe rebastinib has the potential to be an important new therapy for cancer patients

when combined with chemotherapy. In addition to the Phase 1b/2 clinical trial with paclitaxel, we intend to initiate a second Phase 1b/2 clinical trial of rebastinib in combination with carboplatin in the coming months.”

In this two-part Phase 1b/2 clinical trial, rebastinib will be evaluated for the treatment of patients with advanced or metastatic solid tumors in combination with paclitaxel. Part 1 is designed to evaluate the safety, tolerability and pharmacokinetics of 50 mg and 100 mg rebastinib twice daily (BID) when administered in combination with paclitaxel, and to determine the recommended phase 2 dose (RP2D) of rebastinib in combination with paclitaxel, in patients with advanced or metastatic solid tumors that are refractory to standard therapies. In part 2, the safety, tolerability and efficacy of the RP2D of rebastinib in combination with weekly paclitaxel will be assessed across multiple cohorts, including: breast cancer, ovarian cancer, and endometrial cancer. This trial will enroll up to 36 evaluable patients in part 1 and up to 132 evaluable patients in part 2. For more information about the clinical trial design please visit www.clinicaltrials.gov (NCT03601897).

“There is an increasing understanding of the mechanisms by which tumors co-opt the surrounding microenvironment to grow, survive and become more invasive. TIE2 kinase is involved in multiple mechanisms favoring a pro-tumoral microenvironment, including the regulation of a population of immunosuppressive macrophages, promotion of tumor angiogenesis, and participation in perivascular pumps that lead to tumor cell intravasation and distal metastasis,” said Oliver Rosen, M.D., Chief Medical Officer at Deciphera. “Certain of these macrophages express TIE2 and we believe selective inhibition of this kinase with rebastinib in combination with paclitaxel is a promising approach to treating these patients.”

About Rebastinib

Rebastinib is an investigational, orally administered, potent and selective inhibitor of the TIE2 kinase, the receptor for angiopoietins, an important family of vascular growth factors in the tumor microenvironment that also activate pro-tumoral TIE2 expressing macrophages. In a Phase 1 clinical trial, biomarker data have demonstrated rebastinib-induced increases in the TIE2 ligand angiopoietin 2, secondary to TIE2 inhibition. Rebastinib is currently being evaluated in a Phase 1b/2 clinical trial in

combination with paclitaxel (NCT03601897) and an investigator sponsored Phase 1b trial in patients with metastatic breast cancer in combination with paclitaxel or eribulin (NCT02824575).

About Deciphera Pharmaceuticals

Deciphera Pharmaceuticals is a clinical-stage biopharmaceutical company focused on improving the lives of cancer patients by tackling key mechanisms of drug resistance that limit the rate and/or durability of response to existing cancer therapies. Our small molecule drug candidates are directed against an important family of enzymes called kinases, known to be directly involved in the growth and spread of many cancers. We use our deep understanding of kinase biology together with a proprietary chemistry library to purposefully design compounds that maintain kinases in a “switched off” or inactivated conformation. These investigational therapies comprise tumor-targeted agents designed to address therapeutic resistance causing mutations and immuno-targeted agents designed to control the activation of immunokinases that suppress critical immune system regulators, such as macrophages. We have used our platform to develop a diverse pipeline of tumor-targeted and immuno-targeted drug candidates designed to improve outcomes for patients with cancer by improving the quality, rate and/or durability of their responses to treatment.

Availability of Other Information About Deciphera Pharmaceuticals

Investors and others should note that Deciphera Pharmaceuticals communicates with its investors and the public using its company website (www.deciphera.com), including but not limited to investor presentations and scientific presentations, Securities and Exchange Commission filings, press releases, public conference calls and webcasts. The information that Deciphera Pharmaceuticals posts on these channels and websites could be deemed to be material information. As a result, Deciphera Pharmaceuticals encourages investors, the media and others interested in Deciphera Pharmaceuticals to review the information that it posts on these channels, including Deciphera Pharmaceuticals' investor relations website, on a regular basis. This list of channels may be updated from time to time on Deciphera Pharmaceuticals' investor relations website and may include other social media channels than the ones described above. The contents of Deciphera Pharmaceuticals' website or these channels, or any other website that may be accessed from its website or these

channels, shall not be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended.

Cautionary Note Regarding Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including, without limitation, statements regarding the potential for rebastinib as a treatment for cancer; and statements regarding plans, enrollment and timelines for the clinical development of rebastinib, including, without limitation, our intent to initiate a Phase 1b/2 clinical trial of rebastinib in combination with carboplatin; and Deciphera Pharmaceuticals' strategy, business plans and focus. The words "designed to," "may," "will," "could," "would," "should," "expect," "plan," "approximate," "anticipate," "intend," "believe," "estimate," "predict," "project," "potential," "continue," "target" and variations of these words or similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Any forward-looking statements in this press release are based on management's current expectations and beliefs and are subject to a number of risks, uncertainties and important factors that may cause actual events or results to differ materially from those expressed or implied by any forward-looking statements contained in this press release, including, without limitation, risks and uncertainties related to the delay of any current or planned clinical trials or the development of our drug candidates, including rebastinib, our ability to successfully demonstrate the efficacy and safety of our drug candidates, the preclinical and clinical results for our drug candidates, which may not support further development of such drug candidates, actions of regulatory agencies, which may affect the initiation, timing and progress of clinical trials and other risks identified in our SEC filings, including our Quarterly Report on Form 10-Q for the quarter ended June 30, 2018, and subsequent filings with the SEC. We caution you not to place undue reliance on any forward-looking statements, which speak only as of the date they are made. We disclaim any obligation to publicly update or revise any such statements to reflect any change in expectations or in events, conditions or circumstances on which any such statements may be based, or that may affect the likelihood that actual results will differ from those set forth in the forward-looking statements. Any forward-looking statements contained in this press release represent

our views only as of the date hereof and should not be relied upon as representing its views as of any subsequent date. We explicitly disclaim any obligation to update any forward-looking statements.

View source version on businesswire.com: <https://www.businesswire.com/news/home/20181023005161/en/>

Source: Deciphera Pharmaceuticals, Inc.

Media:

The Yates Network

Gina Nugent, 617-460-3579

gina@theyatesnetwork.com

or

Investor Relations:

Argot Partners

Laura Perry or Sam Martin, 212-600-1902

Laura@argotpartners.com or Sam@argotpartners.com

or

Company:

Deciphera Pharmaceuticals, LLC

Christopher J. Morl, 781-209-6418

Chief Business Officer

cmorl@deciphera.com