



ESSA Pharma Announces the Presentation of Additional Preclinical Data for EPI-7386 at the ESMO Virtual Congress 2020

Houston, Texas and Vancouver, Canada, September 17, 2020 – ESSA Pharma Inc. (Nasdaq: EPIX; TSX-V: EPI), a clinical-stage pharmaceutical company focused on developing novel therapies for the treatment of prostate cancer, today announced the presentation of data of ESSA’s clinical candidate, EPI-7386, at the ESMO Virtual Congress 2020.

The oral poster presentation titled, “Preclinical profile of EPI-7386, a second-generation N-terminal domain androgen receptor inhibitor for the treatment of prostate cancer” was published on Thursday, September 17th.

The studies highlight new information about EPI-7386 including:

- ***In vitro* cellular gene expression analyses demonstrate that EPI-7386:**
 - o In an *in vitro* VCaP model, combination treatment of EPI-7386 with enzalutamide, apalutamide or darolutamide display broader and deeper inhibition of AR-associated transcriptional activity than higher doses of each single agent alone.
 - o Shows superior activity to enzalutamide in an AR-V7-driven cellular model by modulating both AR-FL and AR-V7-driven gene expression with or without the addition of an external androgen such as R1881.

“Previously, we presented *in vitro* data demonstrating that combination treatment of EPI-7386 with enzalutamide displays broader and deeper inhibition of AR-associated transcriptional activity than higher doses of each single agent alone. These newest transcriptomic analyses demonstrate a similar effect on inhibiting AR-regulated genes by combining EPI-7386 with apalutamide and darolutamide. These data provide additional rationale for studying the potential benefit of combining EPI-7386 with a variety of second-generation anti-androgens in earlier line prostate cancer patients,” said Dr. David R. Parkinson, President & Chief Executive Officer.

About ESSA Pharma Inc.

ESSA is a clinical-stage pharmaceutical company focused on developing novel and proprietary therapies for the treatment of castration-resistant prostate cancer in patients whose disease is progressing despite treatment with current therapies. ESSA’s proprietary “aniten” compounds bind to the N-terminal domain of the androgen receptor (“AR”), inhibiting AR driven transcription and the AR signaling pathway in a unique manner which bypasses the drug resistance mechanisms associated with current anti-androgens. The Company is currently conducting a phase 1 study of EPI-7386 in patients with mCRPC who are failing current standard-of-care therapies. For more information, please visit www.essapharma.com and follow us on Twitter under @ESSAPharma.

About Prostate Cancer

Prostate cancer is the second-most commonly diagnosed cancer among men and the fifth most common cause of male cancer death worldwide (Globocan, 2018). Adenocarcinoma of the prostate is dependent on androgen for tumor progression and depleting or blocking androgen action has been a mainstay of hormonal treatment for over six decades. Although tumors are

often initially sensitive to medical or surgical therapies that decrease levels of testosterone, disease progression despite castrate levels of testosterone generally represents a transition to the lethal variant of the disease, mCRPC, and most patients ultimately succumb to the illness. The treatment of mCRPC patients has evolved rapidly over the past five years. Despite these advances, additional treatment options are needed to improve clinical outcomes in patients, particularly those who fail existing treatments including abiraterone or enzalutamide, or those who have contraindications to receive those drugs. Over time, patients with mCRPC generally experience continued disease progression, worsening pain, leading to substantial morbidity and limited survival rates. In both in vitro and in vivo animal studies, ESSA's novel approach to blocking the androgen pathway has been shown to be effective in blocking tumor growth when current therapies are no longer effective.

Forward-Looking Statement Disclaimer

This release contains certain information which, as presented, constitutes "forward-looking information" within the meaning of the Private Securities Litigation Reform Act of 1995 and/or applicable Canadian securities laws. Forward-looking information involves statements that relate to future events and often addresses expected future business and financial performance, containing words such as "anticipate", "believe", "plan", "estimate", "expect", and "intend", statements that an action or event "may", "might", "could", "should", or "will" be taken or occur, or other similar expressions and includes, but is not limited to, statements that preclinical data support the development of EPI-7386 broadly in prostate cancer, the timing and enrollment of a Phase 1 study of EPI-7386, future presentations with respect to EPI-7386 and the content thereof, and other statements surrounding the Company's clinical evaluation of EPI-7386.

Forward-looking statements and information are subject to various known and unknown risks and uncertainties, many of which are beyond the ability of ESSA to control or predict, and which may cause ESSA's actual results, performance or achievements to be materially different from those expressed or implied thereby. Such statements reflect ESSA's current views with respect to future events, are subject to risks and uncertainties and are necessarily based upon a number of estimates and assumptions that, while considered reasonable by ESSA as of the date of such statements, are inherently subject to significant medical, scientific, business, economic, competitive, political and social uncertainties and contingencies. In making forward looking statements, ESSA may make various material assumptions, including but not limited to (i) the accuracy of ESSA's financial projections; (ii) obtaining positive results of clinical trials; (iii) obtaining necessary regulatory approvals; and (iv) general business, market and economic conditions.

Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein and in ESSA's Annual Report on Form 20-F dated December 19, 2019 under the heading "Risk Factors", a copy of which is available on ESSA's profile on the SEDAR website at www.sedar.com, ESSA's profile on EDGAR at www.sec.gov, and as otherwise disclosed from time to time on ESSA's SEDAR profile. Forward-looking statements are made based on management's beliefs, estimates and opinions on the date that statements are made and ESSA undertakes no obligation to update forward-looking statements if these beliefs, estimates and opinions or other circumstances should change, except as may be required by applicable Canadian and United States securities laws. Readers are cautioned against attributing undue certainty to forward-looking statements.



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