

## ESSA PHARMA PRESENTS NEW DATA ON EPI-7386 AT THE EUROPEAN SOCIETY OF MEDICAL ONCOLOGY (ESMO) 2019 CONGRESS

**Houston, Texas and Vancouver, Canada, September 28, 2019** – ESSA Pharma Inc. (Nasdaq: EPIX; TSX-V: EPI), a pharmaceutical company focused on developing novel therapies for the treatment of prostate cancer, today presented new preclinical data on ESSA's lead Investigational New Drug ("IND") candidate at the European Society of Medical Oncology ("ESMO") 2019 Congress.

In an oral poster presentation titled, "EPI-7386 is a novel N-terminal domain androgen receptor inhibitor for the treatment of prostate cancer", a deeper preclinical characterization of EPI-7386 was presented. The poster shows that, in preclinical studies, EPI-7386 demonstrates:

- Activity in multiple *in vitro* full length androgen receptor (AR) and AR-V7 splice variant driven cellular models.
- Robust antitumor activity as a single agent and in combination with enzalutamide in the VCaP xenograft prostate cancer model.
- Antitumor activity in enzalutamide-resistant prostate cancer xenograft models, 22Rv1 and LNCaP95, with no antitumor activity, as expected, in a non-functional androgen receptor PC-3 prostate cancer xenograft model.
- Wide therapeutic index as demonstrated by a broad dose response in the VCaP model.
- High plasma exposures in animal studies using a new suspension formulation.

**Abstract ID:** 503P  
**Abstract Title:** EPI-7386 is a novel N-terminal domain androgen receptor inhibitor for the treatment of prostate cancer  
**Presenter:** Ronan Le Moigne, PhD  
**Date:** Saturday September 28, 2019  
**Time:** 12:00pm CEST  
**Location:** Hall 4, Fira Gran Via, Barcelona, Spain

### About ESSA Pharma Inc.

ESSA is a pharmaceutical company focused on developing novel and proprietary therapies for the treatment of castration-resistant prostate cancer ("CRPC") 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 progressing IND-enabling studies and expects to file an IND with the FDA for EPI-7386 in the first calendar quarter of 2020. For more information, please visit [www.essapharma.com](http://www.essapharma.com) or follow us on Twitter under [@ESSAPharma](https://twitter.com/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, metastatic CRPC ("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 regarding the expected filing of an IND with the FDA for EPI-7386 in the first quarter of 2020.

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 13, 2018 under the heading "Risk Factors", a copy of which is available on ESSA's profile on the SEDAR website at [www.sedar.com](http://www.sedar.com), ESSA's profile on EDGAR at [www.sec.gov](http://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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