AVEO Oncology Announces Receipt of Payments from EUSA Pharma and CANbridge

CAMBRIDGE, Mass. – September 13, 2017 – AVEO Oncology (NASDAQ: AVEO) today announced the receipt of a $4 million research and development payment from EUSA Pharma related to the approval of FOTIVDA® (tivozanib) for the treatment of adult patients with advanced renal cell carcinoma in Europe, and a $0.5 million milestone payment from CANbridge related to manufacturing development activities for AV-203, AVEO's clinical-stage ErbB3 (HER3) inhibitory antibody candidate.

"These payments further strengthen our balance sheet while demonstrating the value of our partnerships in advancing AVEO's pipeline," said Michael Bailey, president and chief executive officer of AVEO. "Additionally, these payments add to our current cash on hand, which was expected to fund operations into the fourth quarter of 2018. We look forward to several additional key milestones in the coming quarters, including the expected presentation of tivozanib-nivolumab combination Phase 1 TiNivo study results this fall, and the anticipated readout of our pivotal Phase 3 TIVO-3 trial in the first quarter of 2018."

Under the terms of their December 2015 agreement, EUSA Pharma has agreed to pay AVEO up to $390 million in future milestone payments and research and development funding, assuming successful achievement of specified development, regulatory and commercialization objectives. In addition, a tiered royalty will be due to AVEO ranging from a low double-digit up to mid-twenty percent on net sales of tivozanib in the agreement's territories. With European approval, AVEO will be eligible for up to $12 million in milestones from EUSA based on reimbursement and regulatory approvals. In the territories licensed to EUSA, thirty percent of milestone and royalty payments received by AVEO, excluding research and development payments such as the one announced today, are due to Kyowa Hakko Kirin (KHK) as a sublicensing fee. In the territories retained by AVEO, the royalty obligation to KHK ranges from the low- to mid-teens on net sales.

In March 2016, AVEO announced an exclusive collaboration and license agreement, granting CANbridge worldwide rights to AV-203, excluding the United States, Canada, and Mexico. Under the terms of the collaboration and license agreement, AVEO is eligible to receive up to $132 million in future reimbursement and milestone payments, assuming the successful achievement of specified development, regulatory and commercialization objectives, as well as a tiered royalty, with a percentage range in the low double digits, on net sales of AV-203 in the partnered territories.

AVEO has retained North American rights to tivozanib and AV-203.

About AVEO

AVEO Oncology (AVEO) is a biopharmaceutical company dedicated to advancing a broad portfolio of targeted therapeutics for oncology and other areas of unmet medical need. The

Company is focused on seeking to develop and commercialize its lead candidate tivozanib, a potent, selective, long half-life inhibitor of vascular endothelial growth factor 1, 2 and 3 receptors, in North America as a treatment for renal cell carcinoma and other cancers. AVEO is leveraging multiple partnerships aimed at developing and commercializing tivozanib in oncology indications outside of North America, and at progressing its pipeline of novel therapeutic candidates in cancer and cachexia (wasting syndrome). Tivozanib (FOTIVDA®) is approved by the European Commission for the treatment of adult patients with advanced renal cell carcinoma (RCC) in the European Union plus Norway and Iceland. For more information, please visit the company's website at www.aveooncology.com.

Cautionary Note Regarding Forward-Looking Statements

This press release contains forward-looking statements of AVEO that involve substantial risks and uncertainties. All statements, other than statements of historical fact, contained in this press release are forward-looking statements. The words "anticipate," "believe," "expect," "intend," "may," "plan," "potential," "could," "should," "would," "seek," "look forward," "advance," "goal," "strategy," or the negative of these terms or other similar expressions, are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements include, among others, statements about: the value of AVEO's partnerships in advancing its pipeline; AVEO's cash runway; the expected presentation of TiNivo results this fall; the anticipated readout of TIVO-3 in the first quarter of 2018; expectations about the potential for additional payments by EUSA Pharma and CANbridge; plans to progress pipeline programs; the expected benefits of tivozanib; and AVEO's strategy, prospects, plans and objectives, including as they pertain specifically to tivozanib and AV-203. AVEO has based its expectations and estimates on assumptions that may prove to be incorrect. As a result, readers are cautioned not to place undue reliance on these expectations and estimates. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements that AVEO makes due to a number of important factors, including risks relating to AVEO's ability to enter into and maintain its third party collaboration agreements, and its ability, and the ability of its licensees and other partners, to achieve development and commercialization objectives under these arrangements; AVEO's ability, and the ability of its licensees, to demonstrate to the satisfaction of applicable regulatory agencies the safety, efficacy and clinically meaningful benefit of AVEO's product candidates, including without limitation risks relating to the ability of EUSA to successfully obtain reimbursement approval of tivozanib in the countries within its territory. AVEO faces other risks relating to its business as well, including risks relating to its ability to successfully enroll and complete clinical trials, including the TIVO-3 and TiNivo studies; AVEO's ability to achieve and maintain compliance with all regulatory requirements applicable to its product candidates; AVEO's ability to obtain and maintain adequate protection for intellectual property rights relating to its product candidates and technologies; developments, expenses and outcomes related to AVEO's ongoing shareholder litigation; AVEO's ability to successfully implement its strategic plans; AVEO's ability to raise the substantial additional funds required to achieve its goals, including those goals pertaining to the development and commercialization of tivozanib; unplanned capital requirements; adverse general economic and industry conditions; competitive factors; and those risks discussed in the section titled "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of

Operations—Liquidity and Capital Resources" included in AVEO's Annual Report on Form 10-K for the year ended December 31, 2016, its quarterly reports on Form 10-Q and in other filings that AVEO may make with the SEC in the future. The forward-looking statements in this press release represent AVEO's views as of the date of this press release. AVEO anticipates that subsequent events and developments may cause its views to change. While AVEO may elect to update these forward-looking statements at some point in the future, it specifically disclaims any obligation to do so. You should, therefore, not rely on these forward-looking statements as representing AVEO's views as of any date other than the date of this press release.

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