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OncoSec Presents Preclinical Data Demonstrating Improved Systemic Anti-Tumor Response Following Modifications to IL-12 Gene Delivery Therapy at AACR Annual Meeting

SAN DIEGO, April 3, 2017 /PRNewswire/ -- OncoSec Medical Incorporated ("OncoSec") (NASDAQ: ONCS), a company developing DNA-based intratumoral cancer immunotherapies, today presented a poster titled "Intratumoral Delivery of a P2A-linked Bicistronic IL-12 Construct Leads to High Intratumoral Expression and Systemic Anti-tumor Response" (Abstract ID # 1614) at the American Association of Cancer Research (AACR) Annual Meeting, in Washington, D.C. The poster included preclinical data demonstrating the latest developments of OncoSec's gene delivery platform in a murine melanoma model.

Previous studies have shown the use of immunomodulatory cytokines is effective in the regression of a wide range of tumors. However, systemic delivery of recombinant cytokines has often resulted in life-threatening adverse effects. Intratumoral gene electrotransfer of plasmid encoded interleukin-12 (IL-12) has shown acceptable safety and efficacy profiles in regressing tumors, both preclinically and clinically.

"We sought to optimize the anti-tumor immune response of our IL-12 immunotherapy platform that combines intratumoral injection of plasmid DNA coding for IL-12 and electroporation. Using a mouse model of melanoma, we were able to demonstrate that the changes made to plasmid design and to electroporation parameters can significantly increase production of IL-12, leading to an improved anti-tumor effect," said Punit Dhillon, OncoSec President and CEO. "The new IL-12 construct is the backbone of our next generation combination molecules."

Copies of the abstract are available and can be viewed on the AACR website at <http://www.abstractsonline.com/pp8/#!/4292/presentation/6375>. The poster is available in the Publications section of OncoSec's website.

About OncoSec Medical Incorporated

OncoSec is a biotechnology company developing DNA-based intratumoral immunotherapies with an investigational technology, ImmunoPulse[®], for the treatment of cancer.

ImmunoPulse[®] is designed to enhance the local delivery and uptake of DNA-based immune-targeting agents, such as IL-12. In Phase I and II clinical trials, ImmunoPulse[®] IL-12 has demonstrated a favorable safety profile and evidence of anti-tumor activity in the treatment of various solid tumors as well as a systemic clinical and immune response.

OncoSec's lead program, ImmunoPulse[®] IL-12, is currently in clinical development for metastatic melanoma and triple-negative breast cancer. The program's current focus is on

the significant unmet medical need in patients with melanoma who are refractory or non-responsive to anti-PD-1/PD-L1 therapies. In addition to ImmunoPulse® IL-12, the Company is also identifying and developing new immune-targeting agents for use with the ImmunoPulse® platform. For more information, please visit www.oncosec.com.

Cautionary Note Regarding Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements can be identified by words such as "can," "may," "will," "suggest," "look forward to," "potential," "understand," and similar references to future periods.

Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based on management's current preliminary expectations and are subject to risks and uncertainties, which may cause our results to differ materially and adversely from the statements contained herein. Potential risks and uncertainties that could cause actual results to differ from those predicted include, among others, the following: uncertainties inherent in pre-clinical studies and clinical trials, such as the ability to enroll patients in clinical trials and the risk of adverse events; unexpected new data, safety and technical issues; our ability to raise additional funding necessary to fund continued operations; and the other factors discussed in OncoSec's filings with the Securities and Exchange Commission.

Undue reliance should not be placed on forward-looking statements, which speak only as of the date they are made. OncoSec disclaims any obligation to update any forward-looking statements to reflect new information, events or circumstances after the date they are made, or to reflect the occurrence of unanticipated events.

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SOURCE OncoSec Medical Incorporated