IMUNON Presents PLACCINE Data at Vaccine Technology Summit 2023

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Chief Science Officer describes compelling preclinical data supporting continued development of PLACCINE as a differentiated, next-generation vaccine modality

LAWRENCEVILLE, N.J., March 22, 2023 (GLOBE NEWSWIRE) -- IMUNON, Inc. (NASDAQ: IMNN), a clinical-stage drug-development company focused on developing DNA-mediated immunotherapy and next-generation vaccines, announces that Khursheed Anwer, Ph.D., Executive Vice President and Chief Science Officer, presented data on the company's PLACCINE platform at the Vaccine Technology Summit 2023 in Boston. Dr. Anwer's presentation, delivered yesterday, is titled "A Novel DNA Vaccine Platform with Potential to Create Next Generation Vaccines," and can be found on the company's website [here].

Dr. Anwer reviewed the company's work in advancing its PLACCINE modality and the promising preclinical data generated to date. Among topics presented was the ability of this multi-valent technology to achieve broad spectrum immunity from a single DNA plasmid with a synthetic delivery system. This ability is independent of virus, device or liquid nanoparticle formulations. The data presented showed:

- Robust immunogenicity and protection in SARS-CoV-2 models
- Durable cellular or humoral responses detectable for more than 12 months
- Comparable protection activity to a commercial mRNA vaccine in a booster-dose comparison
- Superior immune quality versus the mRNA vaccine in a single-dose comparison

In addition, the PLACCINE modality had important distinguishing advantages for a commercial vaccine, including a shelf-life at 4ºC for greater than nine months, and the ability for simple, rapid and scalable manufacturing.

Commenting on the presentation, Dr. Anwer said, "I was honored to present our PLACCINE preclinical data in front of such a prestigious gathering of vaccine professionals from around the world. With its durable and broad-spectrum immunity and immune quality, longer shelf-life at workable, standard refrigerated temperatures and flexible manufacturing, we are optimistic about our ongoing work to develop PLACCINE as a potentially superior alternative to current approaches."

About IMUNON

IMUNON is a fully integrated, clinical stage biotechnology company focused on advancing a portfolio of innovative treatments that harness the body's natural mechanisms to generate safe, effective and durable responses across a broad array of human diseases, constituting a differentiating approach from conventional therapies.

IMUNON has two platform technologies: the TheraPlas modality for the development of immunotherapies and other anti-cancer nucleic acid-based therapies, and the PLACCINE modality for the development of nucleic acid vaccines for infectious diseases and cancer. The company's lead clinical program, IMNN-001, is a DNA-based immunotherapy for the localized treatment of advanced ovarian cancer currently in Phase 2 development. IMNN-001 works by instructing the body to produce safe and durable levels of powerful cancer-fighting molecules, such as interleukin-12 and interferon gamma, at the tumor site. Additionally, the company is conducting preclinical proof-of-concept studies on a nucleic acid vaccine candidate targeting the SARS-CoV-2 virus to validate its PLACCINE platform. IMUNON's platform technologies are based on the delivery of nucleic acids with novel synthetic delivery systems that are independent of viral vectors or devices. IMUNON will continue to leverage these platforms and to advance the technological frontier of nucleic acid-based products to better serve patients with difficult-to-treat conditions. For more information on IMUNON, visit www.imunon.com.

Forward-Looking Statements

IMUNON wishes to inform readers that forward-looking statements in this news release are made pursuant to the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. Readers are cautioned that such forward-looking statements involve risks and uncertainties including, without limitation, unforeseen changes in the course of research and development activities and in clinical trials; the uncertainties of and difficulties in analyzing interim clinical data; the significant expense, time and risk of failure of conducting clinical trials; the need for IMUNON to evaluate its future development plans; possible acquisitions or licenses of other technologies, assets or businesses; possible actions by customers, suppliers, competitors or regulatory authorities; and other risks detailed from time to time in IMUNON's periodic reports and prospectuses filed with the Securities and Exchange Commission. IMUNON assumes no obligation to update or supplement forward-looking statements that become untrue because of subsequent events, new information or otherwise.

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