IMUNON Invited to Present PlaCCine® DNA Technology Proof-of-Concept Data in Platform Presentations at Leading Vaccine Conferences

October 17, 2025

Company seeks strategic partners to advance novel PlaCCine technology

LAWRENCEVILLE, N.J., Oct. 17, 2025 (GLOBE NEWSWIRE) -- IMUNON, Inc. (Nasdaq: IMNN), a clinical-stage company focused on developing non-viral DNA-mediated immunotherapies and evaluating an adaptation of the platform's potential as a next-generation vaccine, today announced that members of its leadership team will deliver oral presentations highlighting IMNN-101, its investigational DNA plasmid vaccine based on the Company's proprietary PlaCCine® technology platform, including proof-of-concept clinical trial results at the following upcoming vaccine conferences:

5th Edition of International Vaccines Congress (IVC)

Keynote Oral Presentation Title: A promising novel approach to DNA vaccines
Presenting Author: Khursheed Anwer, Ph.D., M.B.A., Executive Vice President and Chief Science Officer, IMUNON, and IVC Scientific Committee Member
Date and Time: Thursday, October 23, 2025, 10:20 a.m. ET
Location: Orlando, Florida

10th International Conference on Vaccine Research and Development

Oral Presentation Title: Development of a PlaCCine DNA Technology for Safe, Effective and Durable Vaccines
Presenting Author: Douglas V. Faller, M.D., Ph.D., Chief Medical Officer, IMUNON
Date and Time: Thursday, November 6, 2025, 1:50 p.m. ET
Location: Boston, Massachusetts

In May 2025, IMUNON announced positive six-month data from the Phase 1 trial of IMNN-101 showing proof of concept of the PlaCCine technology, demonstrating better durability of protection compared to mRNA vaccines after a single dose targeting the SARS-CoV-2 Omicron XBB1.5 spike antigen variant. Results also showed IMNN-101 induced up to a 3-fold median increase in the serum neutralizing antibody (NAb) titers from baseline at six months, with initial evidence of a stronger immune response in the two higher dose cohorts (2.0 mg and 1.0 mg) compared to the lower dose cohort (0.5 mg). IMNN-101 was shown to be safe and well tolerated, with no serious adverse effects reported.

To accelerate the development and commercialization of the PlaCCine platform, IMUNON is actively seeking strategic partnerships with leading pharmaceutical and biotechnology companies. These collaborations aim to leverage PlaCCine's unique advantages—enhanced durability, temperature stability, and scalable manufacturing—to address unmet needs in vaccines for infectious diseases and cancer, while securing non-dilutive funding to advance IMUNON's broader oncology focused pipeline.

About IMUNON

IMUNON is a 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 is developing its non-viral DNA technology across its modalities. The first modality, TheraPlas®, is developed for the gene-based delivery of cytokines and other therapeutic proteins in the treatment of solid tumors where an immunological approach is deemed promising. The second modality, PlaCCine®, is developed for the gene delivery of viral antigens that can elicit a strong immunological response.

The Company's lead clinical program, IMNN-001, is a DNA-based immunotherapy for the localized treatment of advanced ovarian cancer that has completed multiple clinical trials including one Phase 2 clinical trial (OVATION 2) and is currently conducting a Phase 3 clinical trial (OVATION 3). 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 has completed dosing in a first-in-human study of its COVID-19 booster vaccine (IMNN-101). The Company will continue to leverage these modalities and to advance, either directly or through partnership, the technological frontier of plasmid DNA to better serve patients with difficult-to-treat conditions. For more information, please 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. All statements, other than statements of historical fact, including, but not limited to, statements regarding the timing of enrollment of the Company's clinical trials, the potential of any therapies developed by the Company to fulfill unmet medical needs, the market potential for the Company's products, if approved, the potential efficacy and safety profile of our product candidates, and the Company's plans and expectations with respect to its development programs more generally, are forward-looking statements. We generally identify forward-looking statements by using words such as "may," "will," "expect," "plan," "anticipate," "estimate," "intend" and similar expressions (as well as other words or expressions referencing future events, conditions or circumstances). Readers are cautioned that such forward-looking statements involve risks and uncertainties including, without limitation, uncertainties relating to unforeseen changes in the course of research and development activities and in clinical trials, including the fact that interim results are not necessarily indicative of final results; the uncertainties of and difficulties in analyzing interim clinical data; the significant expense, time and risk of failure in conducting clinical trials; the need for IMUNON to evaluate its future development plans; possible actions by customers, suppliers, competitors or regulatory authorities; and other risks detailed from time to time in IMUNON's filings with the Securities and Exchange Commission. IMUNON assumes no obligation, except to the extent required by law, to update or

supplement forward-looking statements that become untrue because of subsequent events, new information or otherwise.

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