IMUNON to Present New Translational Data of IMNN-001 Supporting Phase 3 Trial of Immunotherapy for Ovarian Cancer at AACR Special Conference in Cancer Research

September 19, 2025

OVATION 3 pivotal Phase 3 trial is currently advancing IMNN-001, with several patients being treated

LAWRENCEVILLE, N.J., Sept. 19, 2025 (GLOBE NEWSWIRE) -- IMUNON, Inc. (Nasdaq: IMNN), a clinical-stage company in Phase 3 development with its DNA-mediated immunotherapy, today announced that new translational data from the Phase 2 OVATION 2 Study of IMNN-001, its investigational therapy for the treatment of women with newly diagnosed advanced ovarian cancer, will be presented at the American Association for Cancer Research (AACR) Special Conference in Cancer Research: Advances in Ovarian Cancer Research, being held September 19-21, 2025, in Denver, Colorado.

IMNN-001, based on IMUNON's proprietary TheraPlas ® technology platform, is an interleukin-12 (IL-12) DNA plasmid vector incorporated into a novel nanoparticle delivery system, enabling cell transfection followed by persistent, local production and secretion of the IL-12 protein in the tumor microenvironment. IL-12 is a powerful pluripotent cytokine known for inducing strong anti-cancer immunity by promoting T-lymphocyte and natural killer cell proliferation while inhibiting tumor-mediated immune suppression. IMNN-001 is the first therapy to achieve a clinically effective response in advanced (stage IIIC/IV) ovarian cancer including benefits in both progression-free survival and overall survival in a first-line treatment setting when used with standard of care chemotherapy.

Details of the AACR presentation:

> **Abstract Title:** IMNN-001, an IL-12 gene therapy, added to Neo/Adjuvant chemotherapy safely turns the tumor microenvironment cold-to-hot in newly diagnosed epithelial ovarian cancer (EOC)
> **Presenting Author:** Douglas V. Faller, M.D., Ph.D., Chief Medical Officer, IMUNON
> **Date:** Saturday, September 20, 2025
> **Time:** 6:35-8:05 p.m. ET
> **Abstract Number:** B050

About the OVATION 3 Study

OVATION 3 is IMUNON's pivotal Phase 3 study of IMMN-001, an IL-12 gene-mediated immunotherapy, in women with advanced epithelial ovarian cancer. The study is supported with unprecedented overall survival (OS) data from a large, 112-patient, randomized Phase 2 study showing the following:

- Median 13-month increase in OS (HR 0.70) and median 3-month increase in PFS (HR 0.79) in IMNN-001 treatment arm compared to standard of care alone.
- Better therapeutic effect observed with IMNN-001 treatment compared to the control arm (p=0.0375), as shown by mean 6.5-month extension of time free of progression or death (PFS + OS) captured in totality of treatment effect.
- Use of poly ADP-ribose polymerase (PARP) inhibitors as part of maintenance therapy further enhanced outcomes, with median OS not yet reached in IMNN-001 treatment arm as patients surpass >5 years since randomization in the trial compared to 37 months on standard of care (HR 0.42).

While not powered for significance, the results from the OVATION 2 Study nonetheless have resulted in invitations to present at both ASCO and ESMO annual meetings and publication in the peer-reviewed journal Gynecologic Oncology.

OVATION 3 is currently enrolling patients at four trial sites with up to 46 additional sites being considered for activation.

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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