



Unleashing the Power of MAIT Cells: Pluri Launches Novel Immunotherapy Platform for Solid Tumor Cancer Treatment

- Placental Mucosal Associated Invariant T (MAIT) cells are unique unconventional immune T cells which are particularly suitable for the treatment of solid tumors, a significant unmet medical need
- MAIT cells offer unique advantages compared to conventional T cells
- MAIT cells hold immense potential for immunotherapy, but their expansion has been a challenge thus far. Pluri, leveraging two decades of cell expertise, has overcome this challenge with its proprietary technology, unlocking the full potential of MAIT cells
- The global cancer immunotherapy market is expected to reach \$275.11 billion by 2032
- Leading cancer researchers Dr. Prasad S. Adusumilli and Dr. Richard L. Kendall join Pluri's Scientific Advisory Board in support of the development of its platform

HAIFA, Israel – May 2, 2024 – Pluri Inc. (Nasdaq:PLUR) (TASE:PLUR) ("Pluri" or the "Company"), a leading biotechnology company that transforms cells into solutions, today launched its placental allogeneic MAIT cell platform for immunotherapy treatment for solid tumors – a significant medical need which currently lacks effective treatments.

Leveraging two decades of cell expansion expertise and its proprietary technology, Pluri recently [unveiled a novel method](#) for expansion of immune cells as well as a new U.S. granted patent. Pluri believes that the newly announced immunotherapy platform can revolutionize solid tumor treatment and unlock the potential of placental MAIT cells, which are unique immune cells derived from healthy donors.

The Company also announced that Dr. Prasad S. Adusumilli (Min H. and Yu-Fan C. Kao Chair in Thoracic Cancers at Memorial Sloan Kettering Cancer Center) and Dr. Richard L. Kendall (Former Head of Oncology Research at Amgen), two renowned oncology researchers, joined its newly formed Scientific Advisory Board to provide strategic counsel as this project advances.

Pluri's Placental Allogeneic MAIT Platform (MAIT)

Offering substantial potential benefits compared to conventional T cells, Pluri's MAIT cells are isolated from the human placenta, a source rich in highly potent allogeneic immune cells. These cells are potent effector cells, potentially targeting tumors through multiple mechanisms while expressing high levels of various chemokine receptors, which



facilitate their migration directly to tumor sites. Furthermore, unlike conventional T cells typically collected from peripheral blood, Pluri's MAIT cells demonstrate a lower alloreactivity profile. This characteristic not only minimizes their likelihood of inducing Graft versus Host Disease (GvHD) - a significant advantage over other potential allogeneic products - but also suggests that they may persist in the body for a longer duration, enhancing their therapeutic efficacy.

When combined with Pluri's 3D cell expansion technology, the MAIT platform will enable commercial scale production of powerful immune cells as a potential first-in-class, ready to use, off-the-shelf therapy for cancer patients.

"Our MAIT platform is a culmination of two decades of innovation and scientific expertise, paving the way for a new era of effective immunotherapy," said Yaky Yanay, CEO and President of Pluri. "We believe that our MAIT cells can make targeted, affordable and effective treatments readily accessible to all who need them. Our commitment extends beyond mere technological advancement; we aim to redefine what's possible in the fight against cancer."

"Despite revolutionary progress in hematological malignancies, an equivalent success has yet to be duplicated in solid tumor malignancies, which present unique challenges. Pluri's MAIT cells exhibit inherent biological advantages that may be pivotal in developing effective treatments for tough-to-treat cancers and solid tumors in particular," said Dr. Arthur Machlenkin, PhD, Chief Scientific Officer of Pluri. "We are excited to continue developing these powerful cells into transformative therapies."

Total Addressable Market

[The global cancer immunotherapy market](#) was valued at \$100 billion in 2022 and expected to surpass around \$275.11 billion by 2032, poised to grow at a compound annual growth rate (CAGR) of 10.70% from 2023 to 2032.

Leading Cancer Researchers Join Pluri's Scientific Advisory Board

Understanding the potential of Pluri's MAIT cells, two internationally recognized oncology researchers joined Pluri's Scientific Advisory Board (SAB): Dr. Prasad S. Adusumilli and Dr. Richard L. Kendall.

Dr. Adusumilli, MD, is Professor and Deputy Chief, Thoracic Service; Vice Chair for Translational Research, Dept. of Surgery; Director, Mesothelioma Program; Min H. and Yu-Fan C. Kao Chair in Thoracic Cancers at Memorial Sloan Kettering Cancer Center (New York, NY). Research led by Dr. Adusumilli has focused on regional immunotherapy strategies, resulting in translation of mesothelin-targeted CAR T-cell immunotherapy for malignant pleural mesothelioma, lung, and breast cancers.



"I am excited to work with Pluri to develop scalable, engineered immune cells for cancer immunotherapy," said Dr. Prasad S. Adusumilli. "The cells' intrinsic ability to migrate to tumor sites can offer a beacon of hope in the fight against solid tumors, a significant unmet medical need."

Dr. Kendall, Ph.D, is Chief Science Officer of Catena Bio, a company whose technology enables them to synthesize novel biomolecules in any structure, combination, or orientation. Previously, Dr. Kendall was the President and CEO of ImmPACT BIO, a cell therapy company developing engineered T cells for the treatment of cancer. Notably, Dr. Kendall also held significant positions at leading biopharmaceutical companies, serving as Vice President of Research at Kite Pharma, where he was responsible for the company's research pipeline and development of CAR-T technologies, as well as Executive Director and Head of Oncology Research at Amgen.

"By combining advanced cell expansion technology with the unique attributes of MAIT cells, Pluri is on the brink of delivering off-the-shelf solutions with unmatched consistency," Said Dr. Richard L. Kendall.

About Pluri Inc.

Pluri™ is pushing the boundaries of science and engineering to create cell-based products for commercial use and is pioneering a biotech revolution that promotes global well-being and sustainability. The Company's technology platform, a patented and validated state-of-the-art 3D cell expansion system, advances novel cell-based solutions for a range of challenges— from medicine and climate change to food scarcity, animal cruelty and beyond. Pluri's method is uniquely accurate, scalable, cost-effective and consistent from batch to batch. Pluri currently operates in the field of regenerative medicine, foodtech and agtech. The Company also offers CDMO services. Pluri establishes partnerships that leverage the Company's proprietary 3D cell-based technology across various industries that require effective, mass cell production. To learn more, visit us at www.pluri-biotech.com or follow Pluri on [LinkedIn](#) and [X](#) (formerly known as Twitter).

Safe Harbor Statement

This press release contains express or implied forward-looking statements within the Private Securities Litigation Reform Act of 1995 and other U.S. Federal securities laws. For example, Pluri is using forward-looking statements when it discusses the potential of its technology and the placental allogeneic MAIT cell platform for immunotherapy treatment for solid tumors, the potential of the MAIT cells and its characteristics and benefits in comparison to conventional T cells, the belief that the newly announced immunotherapy platform can revolutionize solid tumor treatment and unlock the potential of placental MAIT cells, the MAIT cells' advantage over other potential allogeneic



products, Pluri's belief that the MAIT platform will enable commercial scale production of powerful immune cells as a potential first-in-class, ready to use, off-the-shelf therapy for cancer patients and the belief that the MAIT cells can make targeted, affordable and effective treatments readily accessible to all who need them. . These forward-looking statements and their implications are based on the current expectations of the management of Pluri only and are subject to a number of factors and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. The following factors, among others, could cause actual results to differ materially from those described in the forward-looking statements about Pluri: changes in technology and market requirements; Pluri may encounter delays or obstacles in launching and/or successfully completing its clinical trials, if necessary; its products may not be approved by regulatory agencies, its technology may not be validated as it progresses further and its methods may not be accepted by the scientific community; it may be unable to retain or attract key employees whose knowledge is essential to the development of its products; unforeseen scientific difficulties may develop with its processes; its products may wind up being more expensive than it anticipates; results in the laboratory may not translate to equally good results in real clinical settings; its patents may not be sufficient; its products may harm recipients or consumers; changes in legislation with an adverse impact; inability to timely develop and introduce new technologies, products and applications; loss of market share and pressure on pricing resulting from competition, which could cause the actual results or performance of Pluri to differ materially from those contemplated in such forward-looking statements. Except as otherwise required by law, Pluri undertakes no obligation to publicly release any revisions to these forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. For a more detailed description of the risks and uncertainties affecting Pluri reference is made to Pluri's reports filed from time to time with the Securities and Exchange Commission.

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