PeproMene Bio Announces Publication in The Lancet of Breakthrough Phase 1 Clinical Trial Results Demonstrating Deep and Durable Complete Responses in Relapsed/Refractory B-cell Lymphomas, including after prior CD19 CAR T-cell failure

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Descrizione

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IRVINE, Calif., Sept. 8, 2026 /PRNewswire/ â?? PeproMene Bio, Inc. today announced the publication in The Lancet, one of the worldâ??s leading medical journals, of results from its Phase 1 clinical trial evaluating PMB-CT01, the companyâ??s first-in-class BAFF-R-targeted CAR T-cell therapy, in patients with relapsed or refractory B-cell non-Hodgkin lymphoma.

The publication reports durable complete clinical responses, together with a more favorable safety profile compared with approved CAR T-cell therapies. Seven of nine treated patients (80%) achieved a complete response (CR), including four of six patients who had progressed after conventional CD19-directed CAR T-cell therapy (â??CAR after CARâ?•). All complete responses remained ongoing at the time of data cutoff, with no relapses observed and the longest ongoing complete response reaching 35 months, suggesting the likelihood of cure.

PMB-CT01 was remarkably safe, as all cytokine release syndrome (CRS) events and the two reported immune effector cell-associated neurotoxicity syndrome (ICANS) events were limited to Grade 1.

Based on these promising results, the Phase 1 trial has expanded from a single clinical trial site at City of Hope, a cancer research and treatment organization, to multiple additional medical centers across the United States. The publication also reports that the first patient treated in the expansion phaseâ??who had triple-hit high-grade B-cell lymphoma following progression after CD19-directed CAR T-cell therapyâ??also achieved a complete response at the first disease assessment.

â??Publishing these peer-reviewed data in The Lancet represents a significant recognition of this novel therapy,â?• said Larry W. Kwak, M.D., Ph.D., scientific founder of PeproMene Bio. â??With the lack of

any relapses, we believe PMB-CT01 is a paradigm-shifting CAR T-cell option for blood cancers which were previously thought to be incurable. Its elite safety may also enable outpatient administrationâ??improving access for underserved patientsâ??while also opening doors for treating autoimmune diseases where B-cell depletion is already proven.â?•

â??These early results are encouraging, particularly for patients whose disease progressed after CD19 or CD20-directed T-cell therapy,â?• said Stephen Forman, M.D., paper co-author and director of the Hematologic Malignancies Institute at City of Hope. â??City of Hope will continue to support the trial as the coordinating center and manufacturing site in addition to patient enrollment.â?•

In December 2024, the Institute for Follicular Lymphoma Innovation (IFLI) committed up to $11 million to support the clinical development of PMB-CT01 in patients with relapsed or refractory follicular lymphoma. â??For patients whose lymphoma returns after CD19-directed CAR T-cell therapy, a new target can mean a new chance. IFLI is proud to support PeproMene Bio in advancing BAFF-R CAR T-cell therapy and encouraged by these early, durable responses,â?• said Mehrdad Mobasher, M.D., M.P.H., Executive Partner at the Institute for Follicular Lymphoma Innovation.

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Publication Details

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About PMB-CT01

PMB-CT01 is a first-in-class B-cell activating factor receptor (BAFF-R)-targeted autologous CAR T-cell therapy being evaluated in ongoing Phase 1 trials for relapsed/refractory B-NHL and relapsed/refractory B-ALL. BAFF-R is expressed almost exclusively on B cells and is essential for B-cell survival, reducing the likelihood of antigen-loss escape. PeproMene Bio has licensed intellectual property relating to PMB-CT01 from City of Hope.

About PeproMene Bio

PeproMene Bio, Inc. is a clinical-stage biotech company in Irvine, California developing novel therapies to treat cancers and immune disorders. For more information, contact Hazel Cheng, Ph.D., COO of PeproMene Bio, Inc. at Hazel.Cheng@pepromenebio.com or visit https://pepromenebio.com/.

Forward-Looking Statements

This press release contains forward-looking statements subject to risks and uncertainties, including risks related to clinical development, regulatory outcomes, therapeutic potential, and commercialization. PeproMene Bio undertakes no obligation to update forward-looking statements except as required by law.

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