

OmniCAR technical issues resolved and program to progress

MELBOURNE Australia, 23 January 2025: Prescient Therapeutics Limited (ASX: PTX), a clinical stage oncology company developing innovative therapies to combat cancer, is pleased to announce the technical challenges previously affecting the OmniCAR program have been resolved, creating a new generation of improved OmniCAR variants which the Company will further evaluate in the coming year. OmniCAR is Prescient's proprietary next-generation CAR-cell platform, and is designed to revolutionise cellular immunotherapy by providing modular, controllable, and reprogrammable CAR-cell therapies.

Previously, Prescient observed that OmniCAR T-cells unarmed with antigen binders were demonstrating unexpected activity. Such an observation was counter to the modular, controllable thesis of OmniCAR and needed to be resolved before undertaking further development. As planned, Prescient devoted the past year to troubleshooting and engineering a solution, a complex effort requiring multidisciplinary inputs including bioinformatics, protein engineering, immunology and cell biology, achieved through collaboration between Prescient, the Peter MacCallum Cancer Centre and the CSIRO.

Prescient can now report that this highly technical effort has been a success, with the design of several OmniCAR variants that have overcome the problems observed with the previous OmniCAR construct in preliminary in vitro and in vivo testing.

Specifically, T cells expressing the new OmniCAR variants demonstrated greatly improved safety when unarmed in both in vitro and in vivo studies. When armed with binders, these new OmniCAR variants demonstrated highly effective tumour-killing activity in mice with Her2 positive tumours, with duration of efficacy exceeding that of the previous version of OmniCAR.

Prescient's CEO, James McDonnell, said "We are pleased that these technical issues have been resolved, and the OmniCAR program can once again move forward. The expertise and persistence of our team and collaborators have been instrumental in overcoming these challenges. OmniCAR has the potential to offer flexibility and optionality for cell therapies, and we are pleased that we are again on a path forward with this platform."

Further validation studies will be undertaken over the coming 12 months, and Prescient will provide guidance on its OmniCAR development plan at the appropriate time.

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About Prescient Therapeutics Limited (Prescient)

Prescient Therapeutics (ASX: PTX) is a clinical stage oncology company developing personalised medicine approaches to cancer, including targeted and cellular therapies.

Targeted Therapy

PTX-100 is a first in class compound with the ability to block an important cancer growth enzyme known as geranylgeranyl transferase-1 (GGT-1). It disrupts oncogenic Ras pathways by inhibiting the activation of Rho, Rac and Ral circuits in cancer cells, leading to apoptosis (death) of cancer cells. PTX- 100 is believed to be the only GGT-1 inhibitor in the world in clinical development. PTX-100 demonstrated safety and early clinical activity in a previous Phase 1 study and recent PK/PD basket study of hematological and solid malignancies. PTX-100 is now in a Phase 1b expansion cohort study in T cell lymphomas, where it is showing encouraging efficacy and safety. The US FDA has granted PTX-100 Orphan Drug Designation for all T-cell Lymphomas and recently cleared an IND for a Phase 2 study focussing on cutaneous T-cell lymphomas.

Cell Therapy Platforms

CellPryme-M: Prescient's novel, ready-for-the-clinic, CellPryme-M technology enhances adoptive cell therapy performance by shifting T towards a central memory phenotype, improving persistence, and increasing the ability to find and penetrate tumours. CellPryme-M is a 24-hour, non-disruptive process during cell manufacturing. Cell therapies that could benefit from additional productivity in manufacturing or increased potency and durability in-vivo, would be good candidates for CellPryme-M.

CellPryme-A: CellPryme-A is an adjuvant therapy designed to be administered to patients alongside cellular immunotherapy to help them overcome a suppressive tumour microenvironment. CellPryme-A significantly decreases suppressive regulatory T cells; increases expansion of CAR-T cells in vivo; increases tumour penetration of CAR-T cells. CellPryme-A improves tumour killing and host survival of CAR-T cell therapies, and these benefits are even greater when used in conjunction with CellPryme-M pre-treated CAR-T cells.

OmniCAR: is a universal immune receptor platform enabling controllable T-cell activity and multi- antigen targeting with a single cell product. OmniCAR's modular CAR system decouples antigen recognition from the T-cell signalling domain. It is the first universal immune receptor allowing post- translational covalent loading of binders to T-cells. OmniCAR is based on technology licensed from Penn; the SpyTag/SpyCatcher binding system licensed from Oxford University; and other assets. OmniCAR is in pre-clinical development.

The targeting ligand can be administered separately to CAR-T cells, creating on-demand T-cell activity post infusion and enables the CAR-T to be directed to an array of different tumour antigens. OmniCAR provides a method for single-vector, single cell product targeting of multiple antigens simultaneous or sequentially, whilst allowing continual re-arming to generate, regulate and diversify a sustained T-cell response over time.

Find out more at www.ptxtherapeutics.com or connect with us via [LinkedIn](#).



The Board of Prescient Therapeutics Limited has approved the release of this announcement.

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