

Key OmniCAR US Patent Granted

Key points:

- **Key US patent granted in the OmniCAR portfolio**
- **Unique covalent binding system is advantageous in modular cell therapy approach**
- **Protection out to at least 2039**

MELBOURNE Australia, 5 July 2022 – Prescient Therapeutics (“Prescient”; ASX: PTX), a clinical stage oncology company developing personalised therapies to treat cancer, is pleased to announce the granting of US Patent No 11,377,481 today in the OmniCAR portfolio entitled “*SpyCatcher and SpyTag: Universal Immune Receptor For T Cells*”. The patent provides protection in the world’s largest healthcare market out to at least 2039.

OmniCAR is a universal immune receptor (UIR) platform that creates next-generation modular cell therapies that are controllable, flexible and adaptable. The key component of the system enabling modularity is a two-part covalent binding system called SpyTag and SpyCatcher that were developed by and licensed from Oxford University. The University of Pennsylvania applied this unique binding system to cell therapy, which is described in the patent which has been exclusively licensed to Prescient. The patent provides protection for molecules currently being developed by Prescient for use in the OmniCAR system.

Prescient believes that OmniCAR is the only known UIR system employing covalent binding, a very strong chemical bond. OmniCAR’s covalent binding of UIRs confers several important advantages over other approaches that rely on weaker, temporary binding, including greater efficacy, control and the ability to pre-arm T cells.

Prescient Managing Director and CEO Steven Yatomi-Clarke said, “This patent is a key plank in the protection of the OmniCAR platform, especially in the US, which is the world’s largest healthcare market. Prescient continues to bolster the protection of this innovative platform through the development of new intellectual property as we progress our three exciting OmniCAR programs through pre-clinical development and towards the clinic.”

- Ends -

Join an investor briefing

Join Prescient MD and CEO Steven Yatomi-Clarke for an investor briefing today, Tuesday 5th July at 12pm (AEST). [Click here to register for the session.](#)



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About Prescient Therapeutics Limited (Prescient)

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

Cell Therapies

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.

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.

Prescient is developing OmniCAR programs for next-generation CAR-T therapies for Acute Myeloid Leukemia (AML); Her2+ solid tumours, including breast, ovarian and gastric cancers; and glioblastoma multiforme (GBM).

CellPryme-M: Prescient's novel, ready-for-the-clinic, CellPryme-M technology enhances adoptive cell therapy performance by shifting T and NK cells 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.

Targeted Therapies

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 has shown encouraging efficacy signals and safety.

PTX-200 is a novel PH domain inhibitor that inhibits an important tumour survival pathway known as Akt, which plays a key role in the development of many cancers, including breast and ovarian cancer, as well as leukemia. Unlike other drug candidates that target Akt inhibition, PTX-200 has a novel mechanism of action that specifically inhibits Akt without non-specific kinase inhibition effects. This highly promising compound is currently in a Phase 1b/2 trial in relapsed and refractory AML, where it has resulted in 4 complete remissions so far. PTX-200 previously generated encouraging Phase 2a data in HER2-negative breast cancer and Phase 1b in recurrent or persistent platinum resistant ovarian cancer.

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

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



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Supplemental COVID-19 Risk Factors

Please see our website: [Supplemental COVID-19 Risk Factors](#)

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