

Prescient Completes CAR-T Manufacturing Milestone for Next Generation Immunotherapy Platform

KEY POINTS:

- Prescient has incorporated SpyTag into a range of binders for its three next generation CAR-T programs
- Prescient has also received delivery of lentiviral vectors that will be used to produce CAR-T cells expressing SpyCatcher
- The SpyTag binders and CAR-T cell expressing SpyCatcher are the novel components for Prescient's unique next generation OmniCAR platform

MELBOURNE Australia 24 June 2021: Prescient Therapeutics Limited (ASX: PTX) ("Prescient"), a clinical stage oncology company developing personalised medicine approaches to cancer, today announced the successful completion of the manufacturing and delivery of crucial components of the OmniCAR platform for Prescient's in-house programs of next-generation CAR-T therapies.

A range of binders against a variety of cancer targets, including CLL-1; CD33; Her2 and EGFRviii, have been manufactured by a leading US antibody manufacturer. All binders have incorporated SpyTag, which is required for covalent binding to immune cells (such as T-cells) in the OmniCAR system.

Additionally, Prescient has also received delivery of lentiviral vectors that will be used to produce CAR-T cells expressing SpyCatcher. Lentiviral vectors are a rate-limiting step in CAR-T production. Together the SpyTagged binders and CAR-T cells expressing SpyCatcher form the basis for the unique, modular OmniCAR platform.

The binders and lentiviral vectors have been delivered to the Peter MacCallum Cancer Centre (Peter Mac) in Melbourne for construct testing and in vitro and in vivo development.

Prescient's CEO and Managing Director, Steven Yatomi-Clarke said, "Demonstrating that novel components can be manufactured is a crucial milestone in the development of an innovative next-generation CAR platform like OmniCAR. Successfully producing binders for CLL-1; CD33; Her2 and EGFRviii will enable our research team to produce CAR-T cells for our three in-house programs. We are also pleased to have timely delivery of lentiviral vectors, which is rate-limiting in manufacturing CAR-Ts and have proven to be a bottleneck for many developers."

"Prescient's research team at the Peter Mac has completed all the preparatory work in parallel, and the delivery of the binders and vectors now enables the team to progress the development of our in-house next-generation cell therapies."

Prescient is developing OmniCAR programs for acute myeloid leukemia; Her2+ solid tumours, including breast, ovarian and gastric cancers; and glioblastoma multiforme (the most common form of brain cancer). In addition, Prescient has developed OmniCAR as a platform, allowing collaborations and partnerships under licence with third parties wishing to incorporate OmniCAR to enhance their respective cell therapies.

The OmniCAR platform is based on technologies developed at the University of Pennsylvania and University of Oxford. Prescient has the worldwide license to commercialise the technologies.

Investor Briefing:

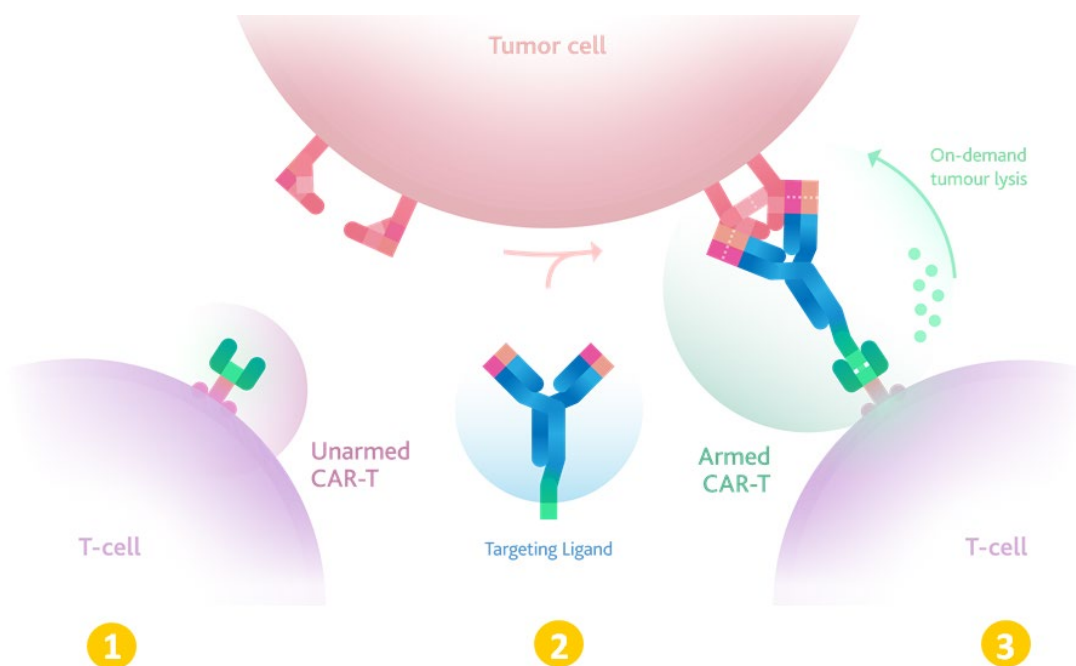
Prescient Therapeutics will host a briefing for shareholders and investors to discuss progress with the OmniCAR research programs and Peter Mac partnership with Professor Phil Darcy from Peter Mac; Prescient's Director of Scientific Affairs, Dr Rebecca Lim; and Prescient CEO Steven Yatomi-Clarke.

Date: Thursday, 1 July

Time: 11am AEST

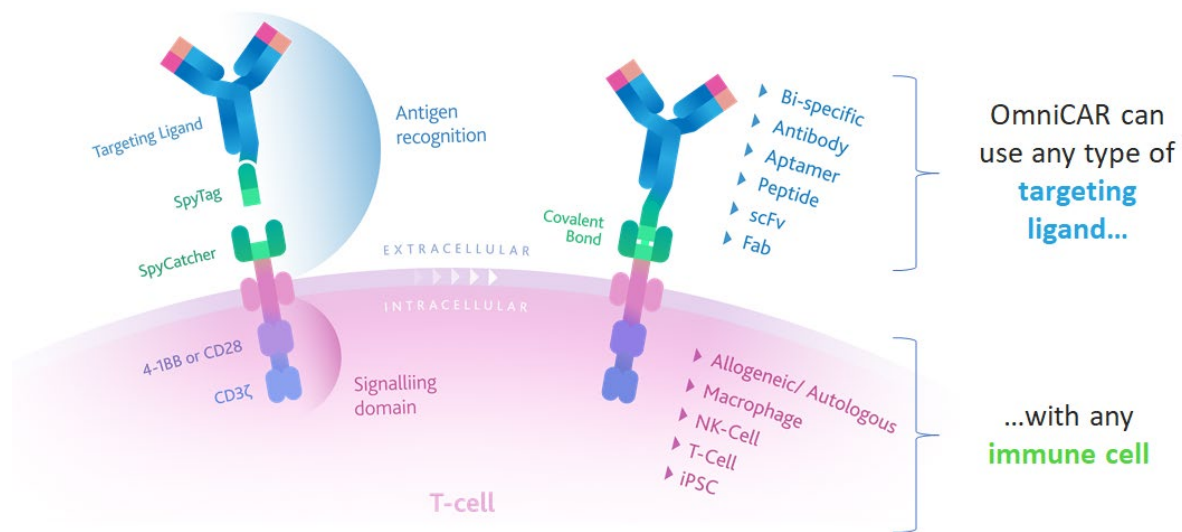
Click here to register: <https://prescienttherapeutics.investorportal.com.au/investor-briefing/>

How OmniCAR works



1. Unarmed CAR-T cells are administered to patient viable, but inactive.
2. Separate administration of targeting ligand (binder).
3. The two components come together to form a fully armed and activated CAR-T cell, resulting in on-demand tumour killing. CAR-T cell activity is now controllable, and its target specificity can be switched at-will.

OmniCAR components



– Ends –

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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).

Cell Therapy Enhancements: Prescient has several other initiatives underway to develop new cell therapy approaches.



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 RhoA inhibitor in the world in clinical development. PTX-100 is currently in a PK/PD basket study of hematological and solid malignancies, focusing on cancers with Ras and RhoA mutations. In a previous Phase 1 trial in advanced solid tumours, PTX-100 was well tolerated and achieved stable disease.

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 which are non-specific kinase inhibitors that have toxicity problems, PTX-200 has a novel mechanism of action that specifically inhibits Akt whilst being comparatively safer. This highly promising compound has previously generated encouraging Phase 2a data in HER2-negative breast cancer and Phase 1b in recurrent or persistent platinum resistant ovarian cancer, with a Phase 1b/2 trial currently underway in relapsed and refractory AML.

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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Steven Yatomi-Clarke
CEO & Managing Director
Prescient Therapeutics
steven@ptxtherapeutics.com

Investor enquiries:
Warrick Lace – Reach Markets
+61 404 656 408
warrick.lace@reachmarkets.com.au

Media enquiries:
Andrew Geddes – CityPR
+61 2 9267 4511
ageddes@citypublicrelations.com.au

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Supplemental COVID-19 Risk Factors

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