Prescient achieves key milestone by demonstrating OmniCAR's key components show minimal immunogenicity in silico

Key Points:

- ***In silico* tests confirm non-immunogenic profile of OmniCAR's key components**
- **Lower immunogenicity than approved humanised antibodies and comparable with human antibodies**
- **Positive results substantially de-risk the entire OmniCAR platform and trigger next steps in development**

MELBOURNE Australia 5 July 2021: Prescient Therapeutics Limited (ASX: PTX), the clinical stage oncology company developing personalised medicine approaches to cancer, today announced excellent results from *in silico* immunogenicity testing of OmniCAR's key binding components, SpyTag and SpyCatcher. These results substantially de-risk the entire platform and are important for progressing Prescient's in-house programs and external collaborations with OmniCAR.

Immunogenicity testing evaluates the immune response against a new therapy, which can adversely affect safety and efficacy. In the case of CAR-T cell therapies, high levels of immunogenicity can adversely impact CAR-T cell expansion and persistence, which can impact the overall safety and clinical response of the treatment.[1]

The immunogenicity of OmniCAR's binding system components – SpyTag and SpyCatcher were tested *in silico* by an independent US research provider to determine if either component has the potential to elicit unfavourable immune responses that could compromise the therapy.

The results demonstrated that both SpyTag and SpyCatcher have very low immunogenicity - lower than a panel of humanised therapeutic antibodies already approved for human use and on par with circulating human antibodies. It is worth noting that *in silico* immunogenicity testing is widely recognised as being over-predictive as contemporary algorithms are unable to account for cellular antigen processing.

[1] Gorovits B, Koren E. Immunogenicity of Chimeric Antigen Receptor T-Cell Therapeutics. BioDrugs. 2019 Jun;33(3):275-284.

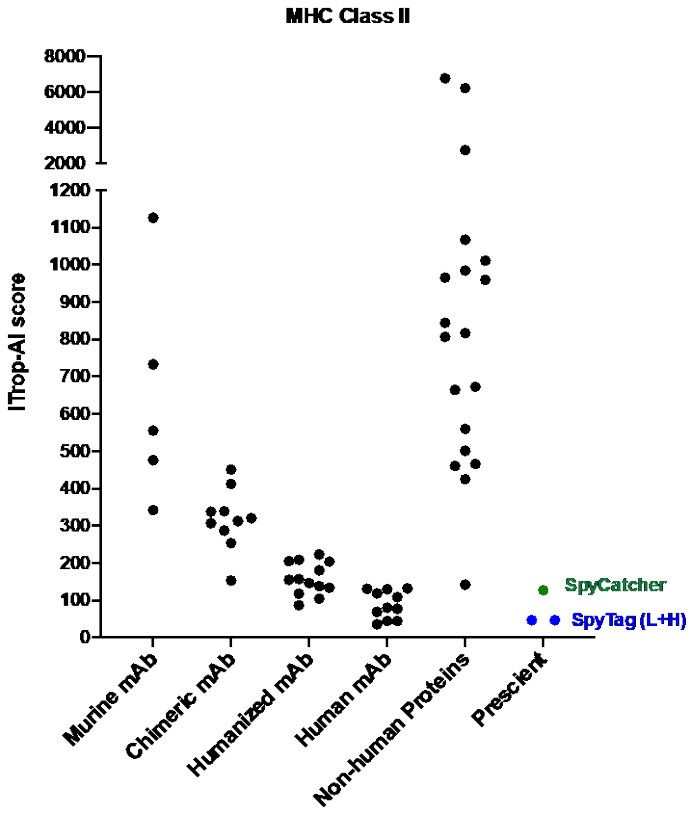

Figure 1: SpyCatcher and SpyTag linked to either a heavy (H) or light (L) chain human IgG, were of either lower or comparable immunogenicity when compared against human monoclonal antibodies approved for human use, and have comparable to immunogenicity to human antibodies.

Prescient's CEO and Managing Director, Steven Yatomi-Clarke said, "This is another incremental but important milestone that significantly de-risks the entire OmniCAR platform. The immunogenicity results could not have been better. In short, it gives us confidence that if these therapies are ultimately delivered to patients, that their immune systems will not impair the therapy itself. This is essential not only for Prescient's three in-house OmniCAR programs, but also for potential external collaborators, who consider immunogenicity very stringently."

"Prescient's development plan is on schedule to deliver a number of important milestones. Together with our talented research team at Peter Mac, we are excited to progress our in-house next generation cell therapies for cancer patients."

The development follows the successful completion of manufacturing and delivery of critical components of the OmniCAR platform including cell binders for several cancer targets and lentiviral vectors used to produce CAR-T cells.

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 a worldwide licence to commercialise the technologies.

– 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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Supplemental COVID-19 Risk Factors

Please see our website : Supplemental COVID-19 Risk Factors

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