Prescient Therapeutics

A YEAR OF TRANSFORMATION

Annual General Meeting

November 2020

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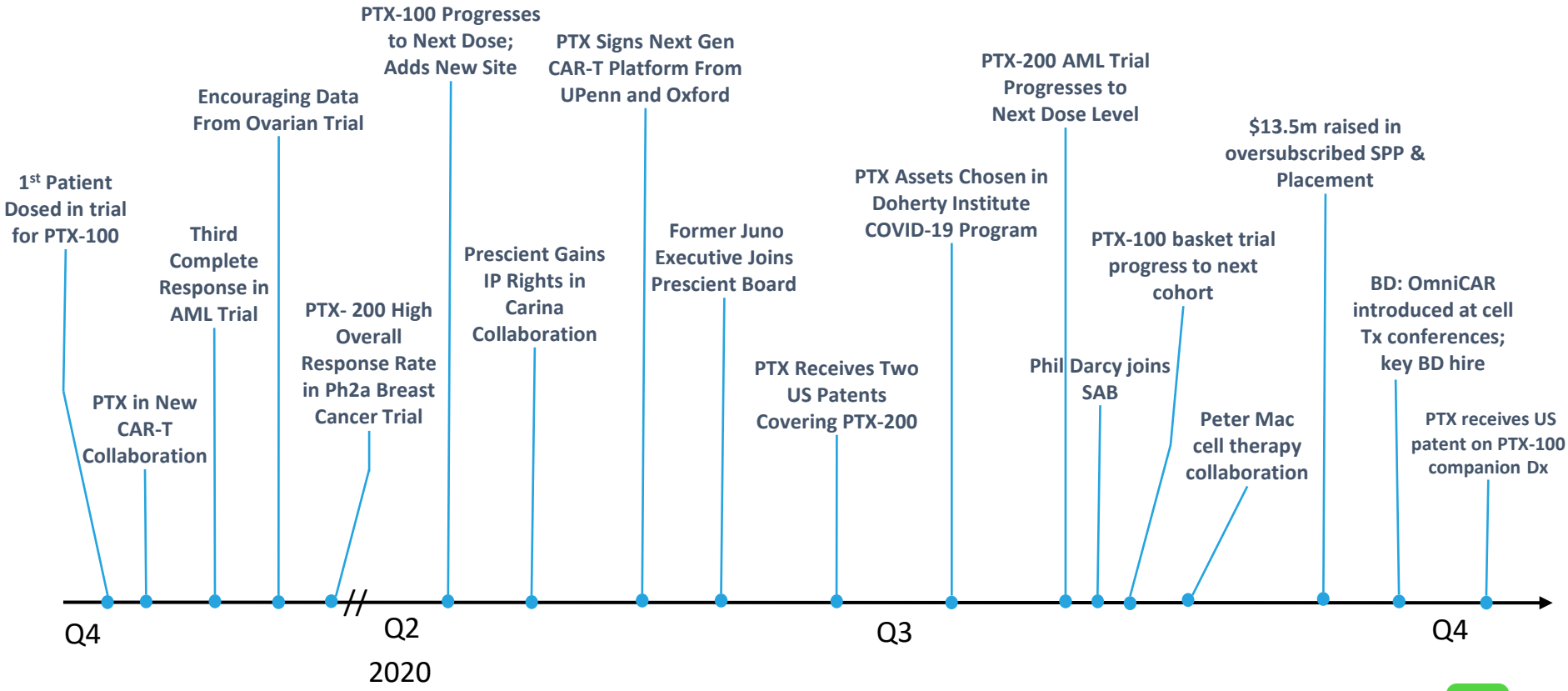
Executive Summary

- Year of transformation
- Navigating challenges & uncertainty of COVID-19
- Progression of PTX-200 in AML
- Encouraging data from PTX-100 study in a very hot area (Ras)
- Leveraging expertise into new fields to create new value-adding opportunities – Cell Therapy Enhancements and COVID-19
- Transformative licenses from UPenn and Oxford to create OmniCAR platform for next-gen CAR-T
- Catapults PTX to the forefront of CAR-T innovation
- Drug development and CAR-T expert Dr Allen Ebens joins Board
- Oversubscribed capital raising attracted new sophisticated investors

An Expanded & Innovative Pipeline

A productive 12 months yielding many achievements



Overcoming challenges in tough year

COVID-19

- No specific and material disruptions, but impossible to escape its impact
- Patients still enrolling, but slower
- Lockdowns and restrictions impacted research institutes – preclinical & clinical lab work
- US pandemic is worsening (risks impacting preclinical and clinical work)

PTX-100 trial – a great "problem" to have!

- Patients are staying on therapy much longer (and at earlier cohorts) than we anticipated
- Requires manufacturing additional PTX-100 and managing patient enrolment
- May push study dates out, but for a good reason!

Travel & Conferences

- Industry has adjusted well to virtual conferences, but these interactions have their limitations
- PTX has hired Dr Dan Shelly as VP – BD & Alliances, based in US to address increased BD activity & travel limitations

PTX-100

FIRST IN CLASS, FIRST IN MAN
GGT-1 INHIBITOR OF RAS PATHWAY

PTX-100 Executive Summary

Yale University

Prescient Therapeutics

MOFFITT CANCER CENTER

First in Class inhibitor of Ras pathway

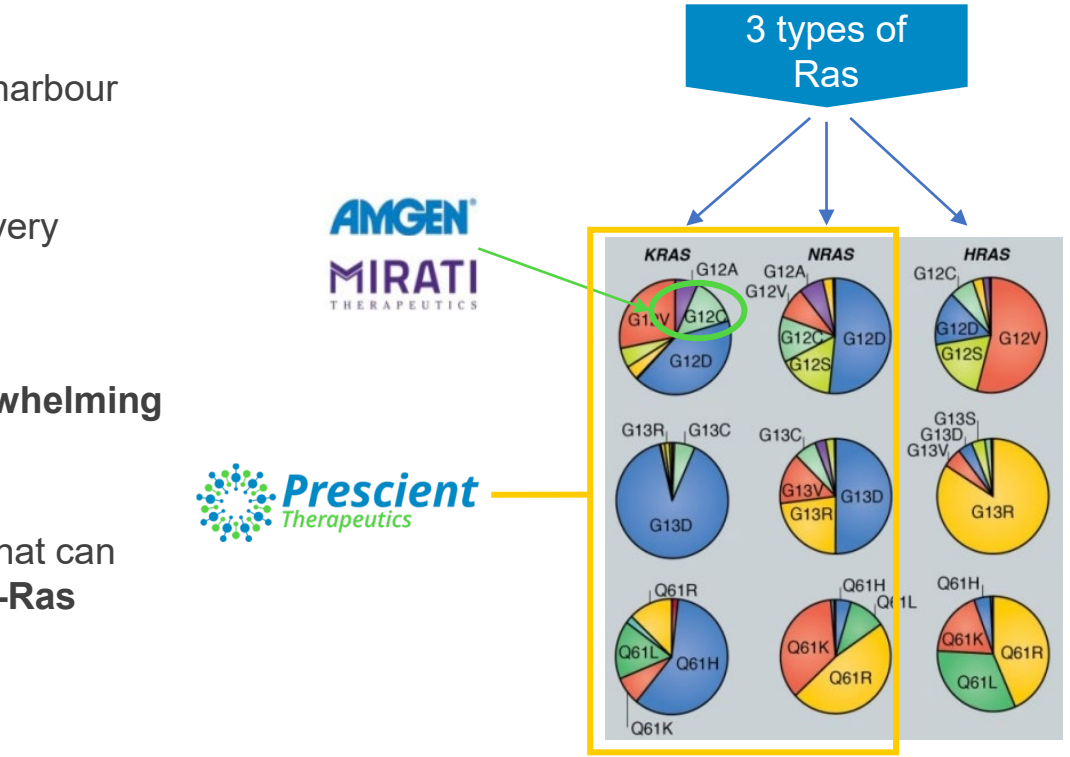
- Downstream MoA captures **many Ras mutant variants**
- PTX-100 is only RhoA inhibitor in clinical development
- Reduces cancer stem cells

Clinical Status

- Phase 1 advanced solid tumor complete (safe; clinical activity)
- Phase 1b PK/PD Basket trial underway
  - heme, solid tumours with Ras and Rho mutations
  - **Clinical signal at first cohort**

PTX-100 ADDRESSES MANY TYPES OF RAS MUTATIONS

- 80% of cancer Ras cancer patients harbour **more than one Ras mutation**!
- Competitor drugs are targeting one very specific type of Ras mutation
  - KRAS G12C
  - This approach can lead to **underwhelming responses** and/or **relapse**
- PTX-100 has a unique mechanism that can potentially address **all K-Ras and N-Ras mutant cancers**



Rossman, KL et al; J.Cell Sci (2016) doi: 10.1242/jcs.182873

PTX-100 PHASE 1B BASKET STUDY UNDERWAY

- Phase 1 trial in solid tumours completed – safety profile established.
- Now focussing on Ras and Rho mutant cancers.
- **PTX-100 has a unique position in Ras and RhoA mutant malignancies**
- Phase 1b PK/PD commenced
- Basket trial of:
  - Gastric cancer
  - Pancreatic cancer
  - Colorectal cancer
  - Myeloma
  - T-cell lymphomas
- **Clinical signal in first cohort (SD & PR)**
- Patients staying on drug for longer than expected (an encouraging sign)
- Necessitating additional manufacturing of PTX-100 and managing patient enrolment

Professor H. Miles Prince, AM
Principal Investigator

Epworth

PTX-200

NOVEL AKT INHIBITION
OVERCOMING KINASE PROMISCUITY
& LIMITATIONS OF PREVIOUS ATTEMPTS AT AKT INHIBITION

PTX-200 Executive Summary

MOFFITT CANCER CENTER
USF UNIVERSITY OF SOUTH FLORIDA
Prescient Therapeutics

Novel PH Domain & Akt inhibition

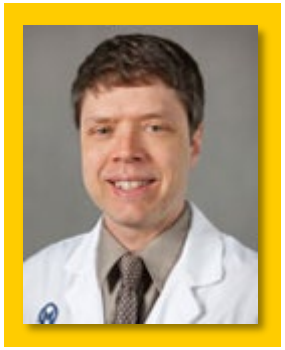
- Unique MoA (not a kinase inhibitor)
- Selectively kills tumors with hyperactivated Akt
- Orphan Drug Designation

Clinical Status

- Clinical PoC established
- Her2- Breast cancer Ph2a: ORR 91% including 3 CRs. Responses durable. ZNF217 biomarker.
- AML Ph1b: 3 CRs
- Ovarian cancer Ph1b: 80% disease control

PHASE 1B TRIAL UNDERWAY: ACUTE MYELOID LEUKEMIA

- Building upon encouraging Phase 1 results with PTX-200 (monotherapy)
- PI Professor Jeff Lancet at Moffitt, with Dr Tara Lin at KUMC
- 15 patients with cytarabine held constant at 200-400 mg/m^2 as continuous infusion
  - 3 CRs so far
- New dosing schedule to minimize overlapping drug interactions
- Currently enrolling second cohort at 35 mg/m^2
- Granted Orphan Drug Designation by US FDA



Jeffrey E Lancet, M.D.
Principal Investigator

MOFFITT CANCER CENTER

Prescient Therapeutics

OmniCAR

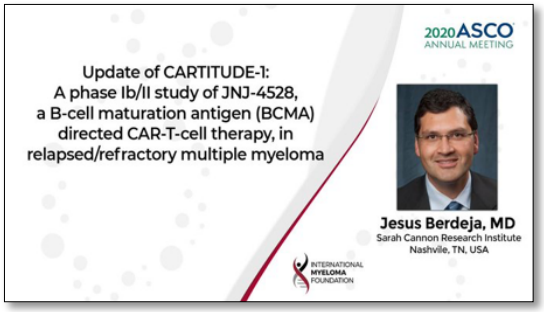
Universal, Next Generation CAR-T

CAR-T: A genuine turning point in cancer treatment

*"CAR T represents **a turning point in the history of human medicine,***

*a **genuine revolution in our approach to disease."**[1]*

- At ASCO 2020 (June) Johnson & Johnson presented an update on their CAR-T therapy for multiple myeloma
- The overall response rate **(ORR) was 100%**

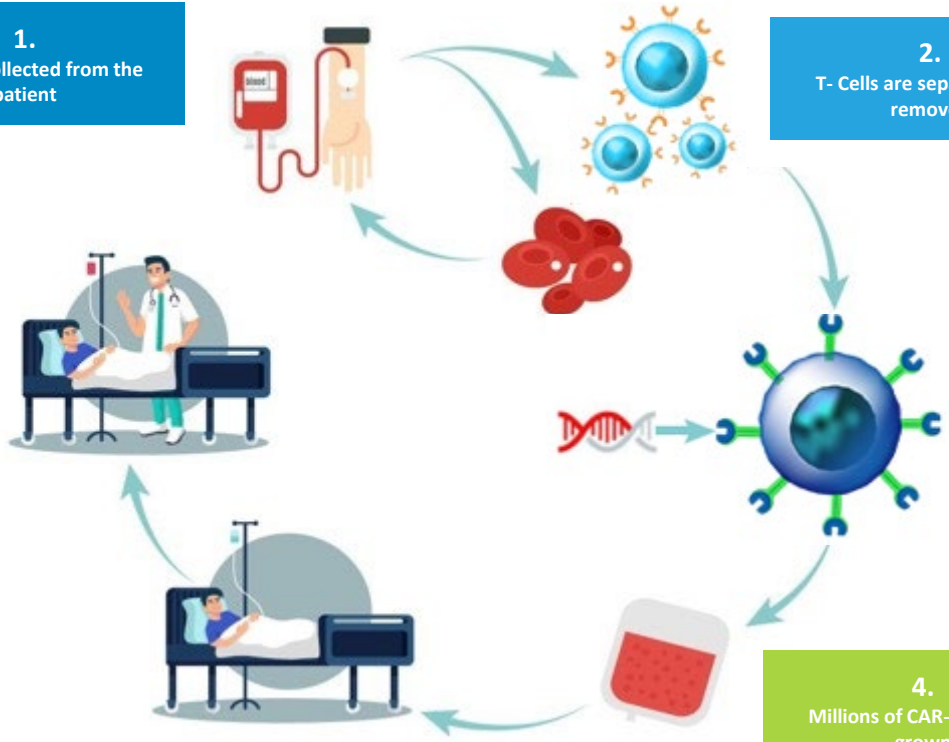


1. CAR-T and The Rise of the Cellicon Valley; UPenn, 2017; https://www.med.upenn.edu/cart/

How does the CAR-T process work?

1.
Blood is collected from the patient

2.
T- Cells are separated and removed



3.
T-Cells are genetically altered to have special cancer-recognising receptors called Chimeric Antigen Receptor (CAR)

4.
Millions of CAR-T cells are grown

5.
Patient first receives Chemotherapy, and then the CAR – T cells are delivered to the patient

Key Challenges Confronting the field of CAR-T

Time and Cost

of delivering treatment

Safety

CAR-T can have serious safety concerns

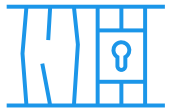
No Control

Clinicians have no control of cells post infusion

Targets

Finding targets that work;

Antigen heterogeneity (multiple targets) - esp. in solid tumours



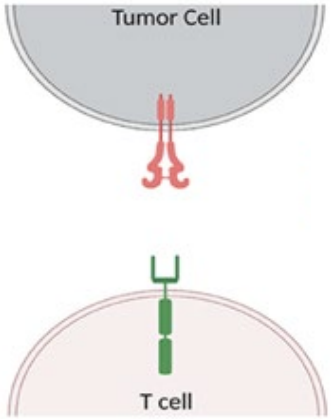
Escape

Antigen loss leads to relapse

How OmniCAR works

1

Unarmed CAR-T cells are administered to patient **viable but inactive**



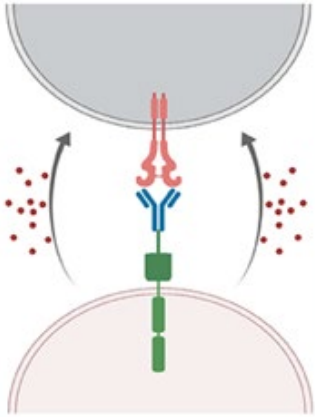
Unarmed CAR-T

2

Separate administration of **targeting ligand** results in a complete, armed CAR-T cell

3

Armed CAR-T cells are activated, resulting in on-demand tumour killing



On-demand tumour lysis

Armed CAR-T

- CAR-T cell activity is **now controllable**
- Targeting can be **switched at will**, by administering a different targeting ligand

Powell, DJ et al, JACS; 2020

Concept to be tested in human under well controlled clinical trial(s) in compliance with regulatory requirements.

OmniCAR can do what conventional CAR-T cannot

Conventional CAR-T

- Soldier with only one map
- Single weapon
- Only trained to hit one target
- Incapable of redirection
- No communication or control in the field

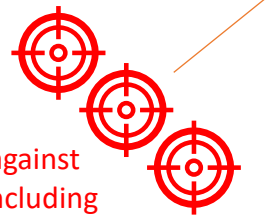
OmniCAR

Armed with **any weapon**

Including **several** at once

Can be given **any map**;
Multiple deployments

Full **communication** and **control** at all times, even mid-mission



Can direct against **any target**, including **simultaneous** targets

Send **images** back to base in real time

Overcoming Clinical Limitations of CAR-T

Prescient Therapeutics

Clinical Challenges	Conventional CAR-T	Universal CAR-T (OmniCAR)
On-demand activation of CAR-T cell	✗	✓
Controlling CAR-T cell activity post infusion	✗	✓
Control serious side effects (TLS; CRS)	✗	✓ (preventative and responsive)
Ability to terminate activity in the event of serious adverse event	✗	✓
Prevention of B-cell aplasia (CD19)	✗	✓ (reversible)
Recallable memory response	✗	✓
Solid tumour targeting	Off-target tissue activity is a major limitation	✓ Titrate to achieve therapeutic index
Addressing tumour antigen loss	✗	✓
Treatment of heterogeneous tumours	✗	✓
Universal vector design	✗	✓
Cost of therapy	High	Single vector design to reduce cost; can be incorporated into off-the-shelf T cells

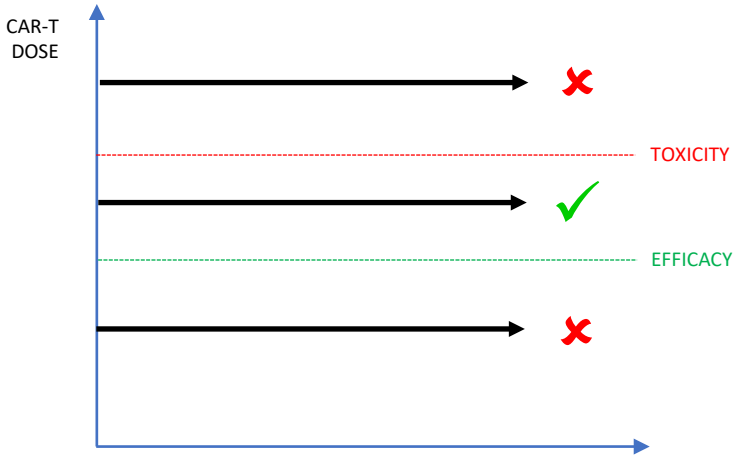
Adapted from Travis Young PhD, California Institute for Biomedical Research, 2017

Concept to be tested in human under well controlled clinical trial(s) in compliance with regulatory requirements.

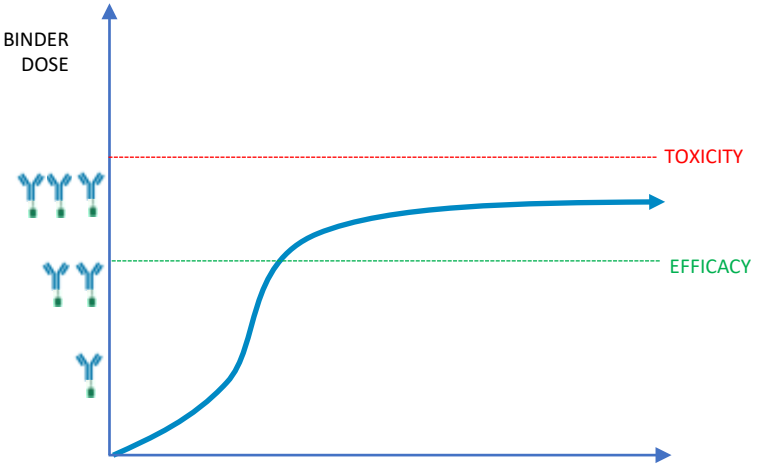
TLS: Tumour Lysis Syndrome
CRS: Cytokine Release Syndrome

Safety: Ability Control Dose & Activity

Conventional CAR-T

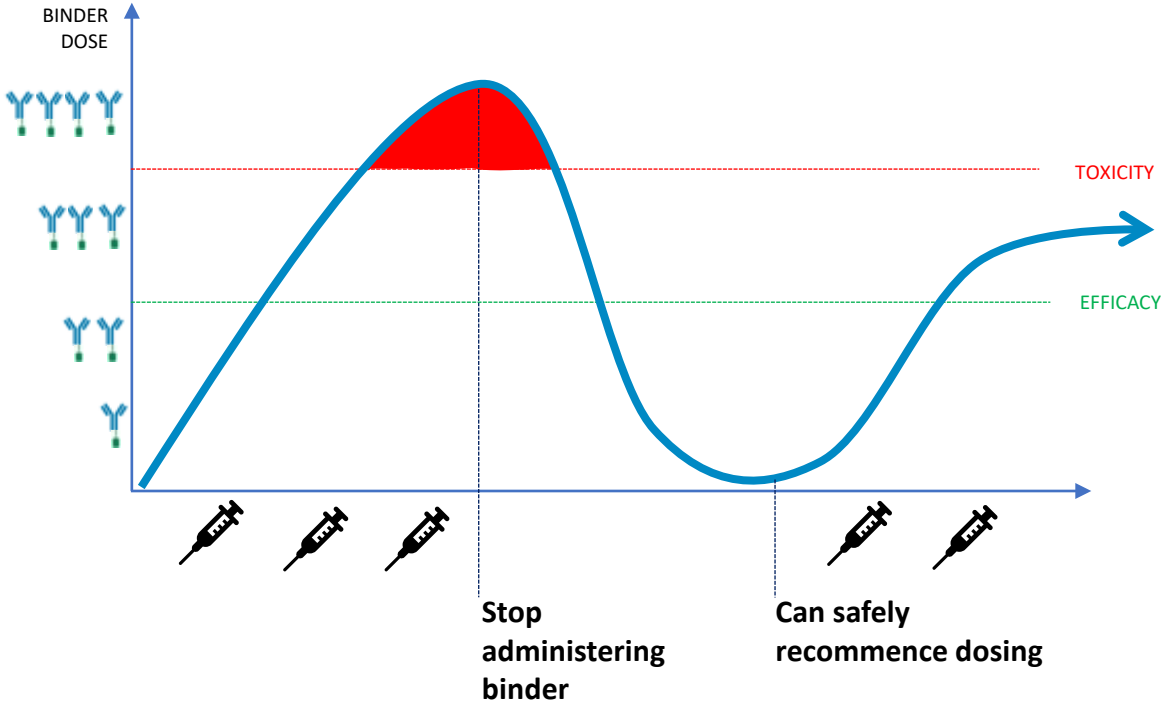


OmniCAR



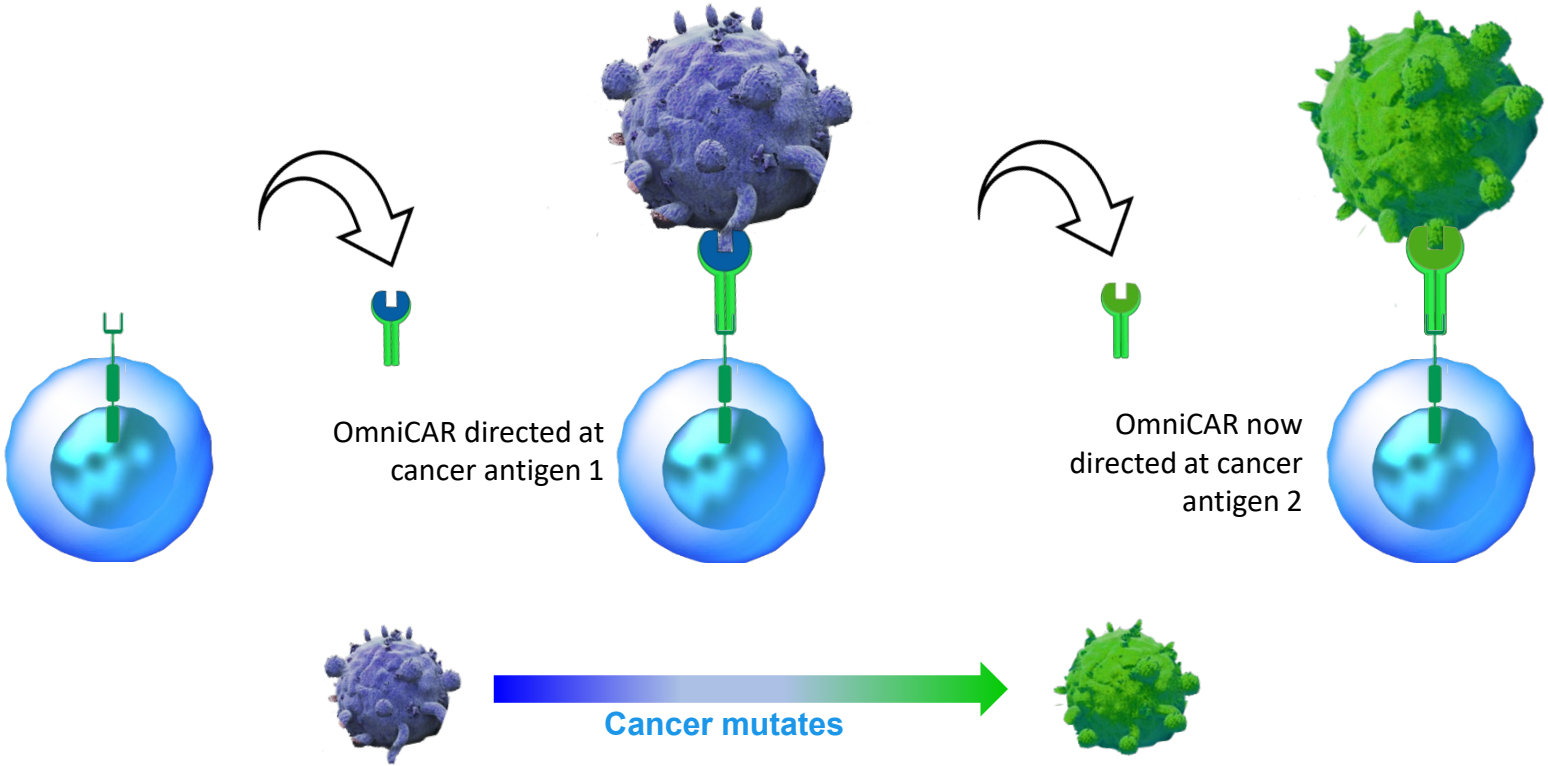
Concept to be tested in human under well controlled clinical trial(s) in compliance with regulatory requirements.

Safety: Built-in on/off switch



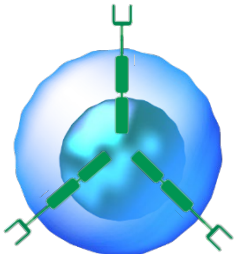
Concept to be tested in human under well controlled clinical trial(s) in compliance with regulatory requirements.

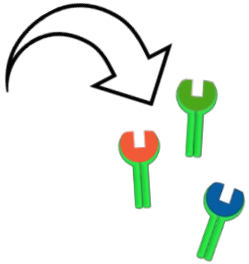
Ability to Target Multiple Antigens *Sequentially*

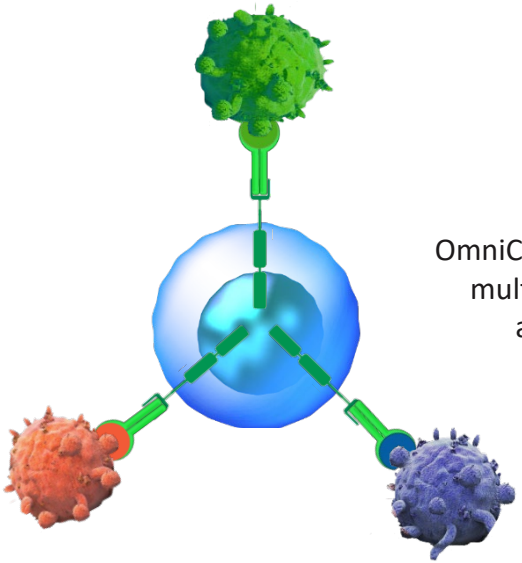


Concept to be tested in human under well controlled clinical trial(s) in compliance with regulatory requirements.

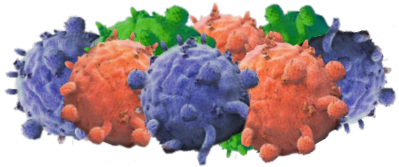
Ability to Target Multiple Antigens *Simultaneously*







OmniCAR directed at multiple cancer antigens



Cancers with heterogenous antigens

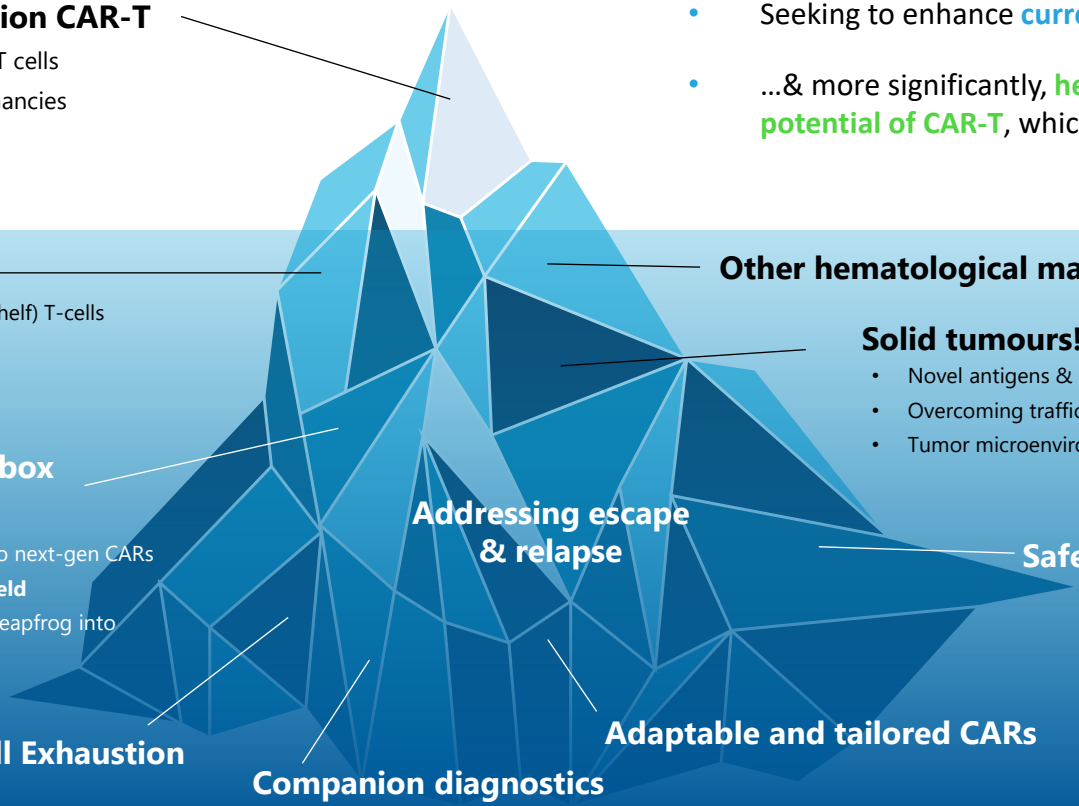
Concept to be tested in human under well controlled clinical trial(s) in compliance with regulatory requirements.

With OmniCAR, this is just the start for CAR-T

Prescient Therapeutics

OmniCAR

- Seeking to enhance **current generation CAR-Ts**….
- …& more significantly, **help realise the broader potential of CAR-T**, which is much bigger opportunity!



Current generation CAR-T

- Autologous T cells
- B-cell malignancies

Cell types

- Allogeneic (off the shelf) T-cells
- iPSC derived cells
- NK cells

Other hematological malignancies

Solid tumours!!!

- Novel antigens & optimising antigen combinations
- Overcoming trafficking
- Tumor microenvironment

A whole new toolbox of Binders

- Re-purposing antibodies into next-gen CARs will **accelerate the whole field**
- Non-CAR-T companies can leapfrog into next-gen CAR-T

Addressing escape & relapse

Safer CAR-T = more applications

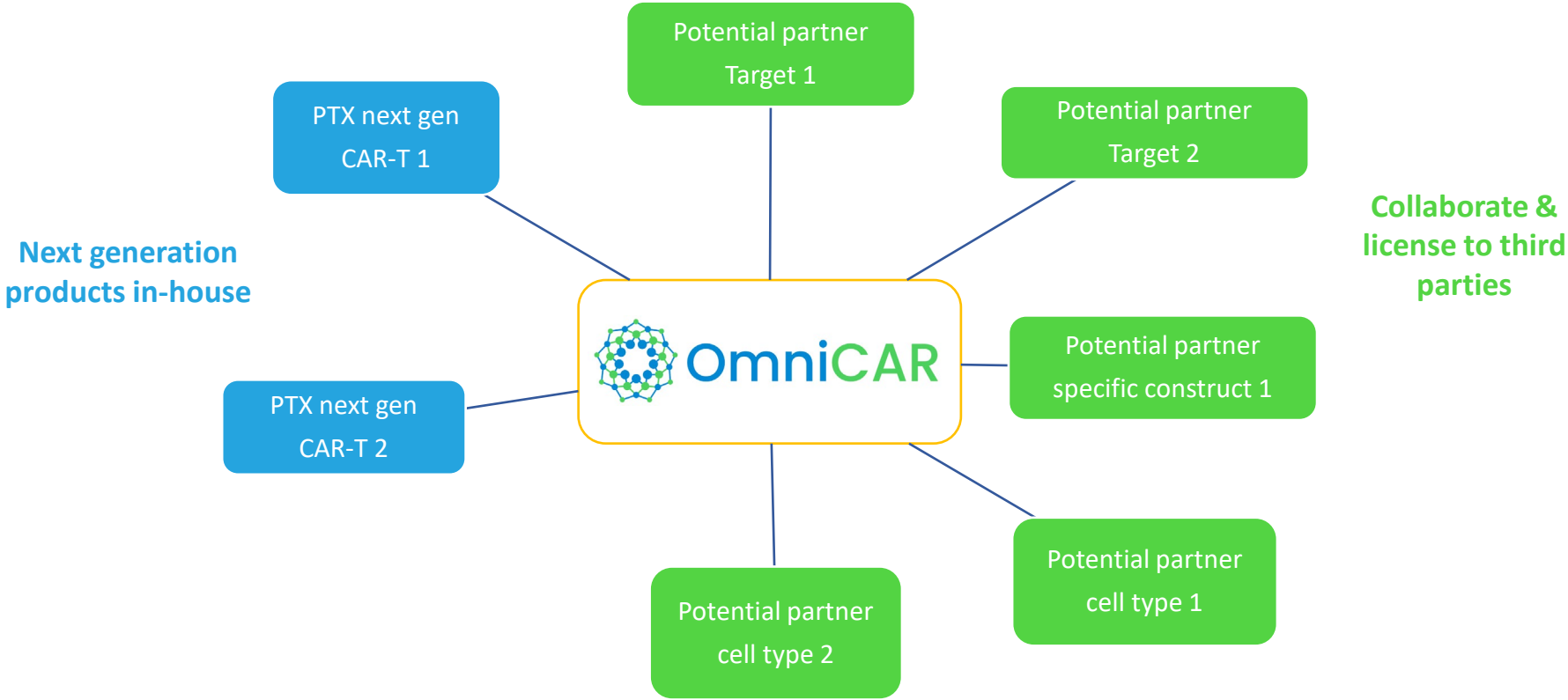
- Safer and more controllable next-gen therapies will bring CAR-T to many more patients
- Opens opportunities beyond oncology

Overcoming T-cell Exhaustion

Companion diagnostics

Adaptable and tailored CARs

OmniCAR Platform Business Model



CAR-T deal activity

Prescient Therapeutics

First generation CAR-T…

Kite Pharma → Bought for **US$11.9B** Aug 2017 → GILEAD

JUNO THERAPEUTICS → Bought for **US$9B** Jan 2018 → Celgene → Bought for **US$74B** Nov 2019 → Bristol Myers Squibb™

…now next generation CAR-T

astellas → Bought for **US$665M** Dec 2019 (US$120M upfront) → XYPHOS (Pre-clinical peer)

Thorough strategic review for internal OmniCAR programs

INTERNAL PTX LEADERSHIP

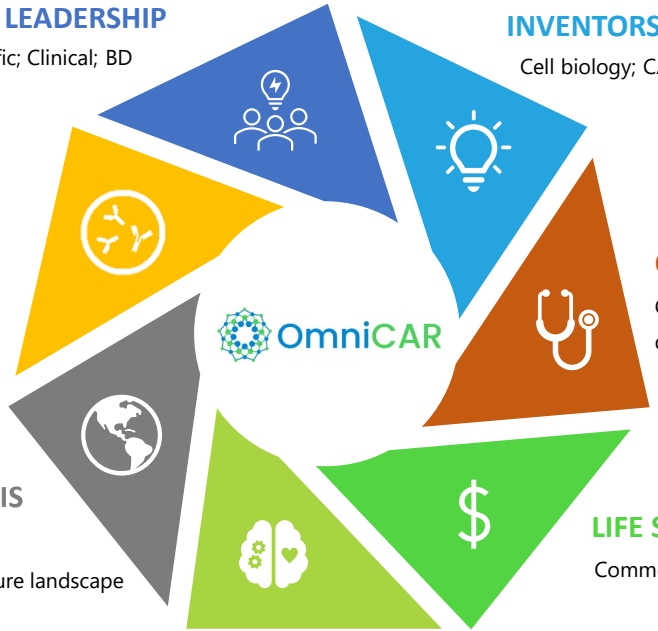
Medical, Scientific; Clinical; BD

INVENTORS

Cell biology; CAR-T; UIRs; protein engineering

ANTIBODY EXPERTS

Important in the consideration of binding domains of OmniCAR



CLINICIANS & KOLs

Global thought leaders with extensive expertise in the clinical development and use of CAR-T

DETAILED LANDSCAPE ANALYSIS

- All players; all indications; all targets
- Crucial in navigating the current and future landscape

LIFE SCIENCE VCs & FUND MANAGERS

Commercial; market & peer perspectives

PROMINENT CANCER ORGANISATIONS

Independent experts in current & future cancer treatments

Current Activities

TARGETED THERAPIES

- PTX-100: Ph1b basket study underway
- PTX-200:
  - AML: Ph1b underway
  - Evaluating new orphan indication trial – extremely encouraging biomarker-driven study in an area of strong unmet need
  - Breast Cancer: evaluating biomarker driven study & hormone therapy combination in ER+ disease
  - Ovarian cancer: evaluating new combination

CELL THERAPY ENHANCEMENTS

- 2 projects underway at Peter Mac & Uni Adelaide/Carina

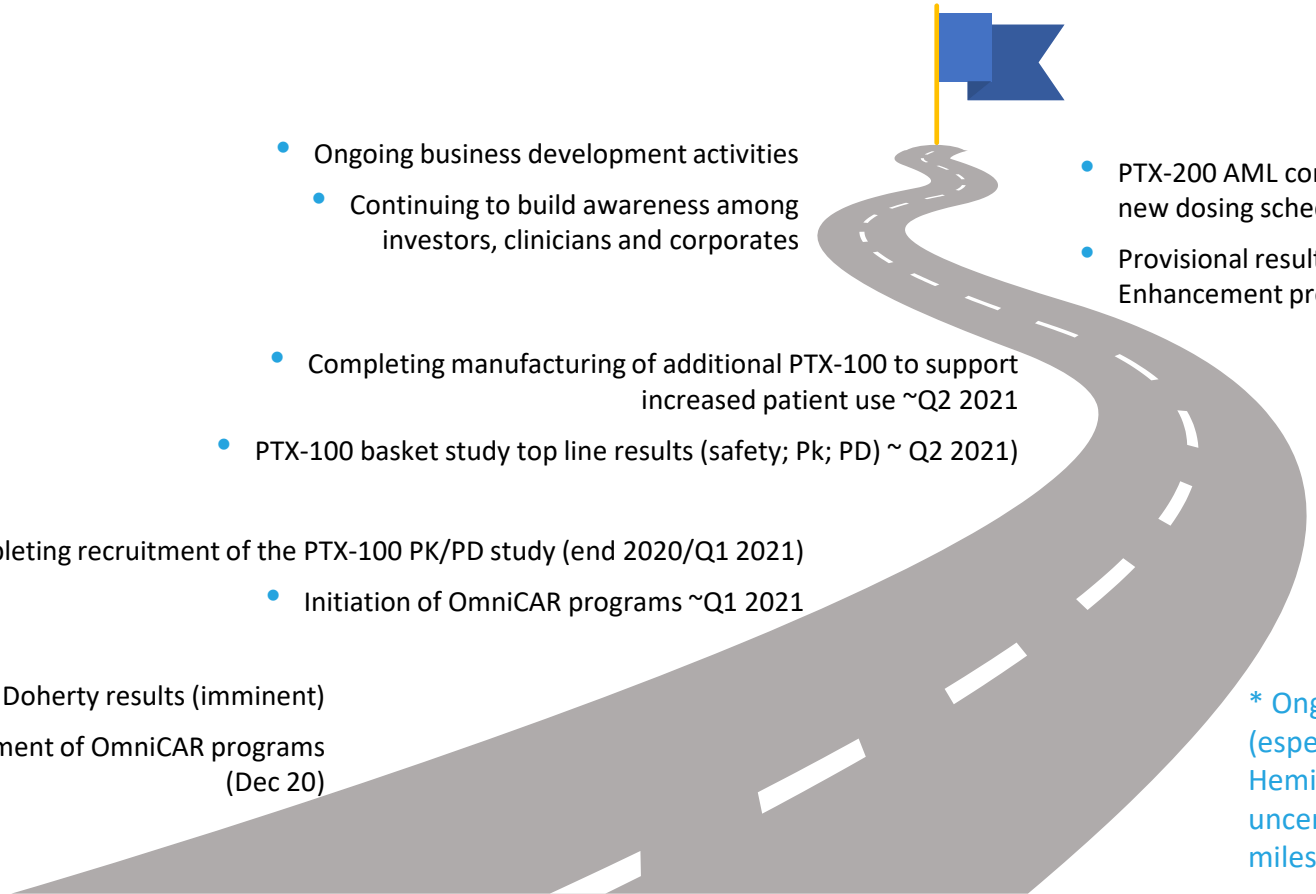
OmniCAR

- Currently undertaking strategic review of opportunities for in-house programs
  - 1-2 lead programs
  - Follow-on programs exploiting different OmniCAR capabilities
- Commence BD activity for collaboration & licensing

DEEPENING CAR-T EXPERTISE

- Spearheaded by Allen Ebens (early hire at Juno to establish their scientific operations)
- Prof Phil Darcy joined SAB
- Dr Dan Shelly with cell therapy expertise appointed VP – Business Development & Alliances
- About to appoint CAR-T expert as pre-clinical project manager
- Multi-disciplinary CAR-T SAB being assembled

In the next 12 months we will work towards:



- Ongoing business development activities
- Continuing to build awareness among investors, clinicians and corporates
- PTX-200 AML completion of Ph1b new dosing schedule
- Provisional results of Cell Therapy Enhancement programs
- Completing manufacturing of additional PTX-100 to support increased patient use ~Q2 2021
- PTX-100 basket study top line results (safety; Pk; PD) ~ Q2 2021)
- Completing recruitment of the PTX-100 PK/PD study (end 2020/Q1 2021)
- Initiation of OmniCAR programs ~Q1 2021
- Covid-19 Doherty results (imminent)
- Announcement of OmniCAR programs (Dec 20)

* Ongoing impacts of COVID-19 (especially in Northern Hemisphere) creates uncertainty around timing of milestones

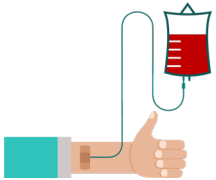
Compelling investment case!

Well funded to deliver value-adding milestones

OmniCAR

Best in class, unique platform. Enviably **positioned ahead of a huge wave in CAR-T**

Many shots on goal for substantial value creation



Creating **next generation CAR-T** products for Prescient

Two differentiated targeted therapies in clinical trials, each a **potential company-maker**

Earlier monetisation opportunities as an enabling technology for 3rd parties

Thank you!

ASX code: PTX

www.ptxtherapeutics.com