



Unveiling

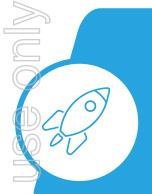


Novel platform for enhancing cell therapies

Prescient Therapeutics Limited (ASX: PTX)

CellPryme-M: Prescient's newest family member





PLATFORM TO ENHANCE CELL THERAPIES

- Current gen <u>and</u> next gen
- Complementary to OmniCAR



- Internal PTX programs
- External collaboration & sales to 3rd parties
- Use with any existing CAR-T manufacturing process with no loss of time





- Doubles tumour control & survival
- Longer lasting
- Tumour trafficking & penetration

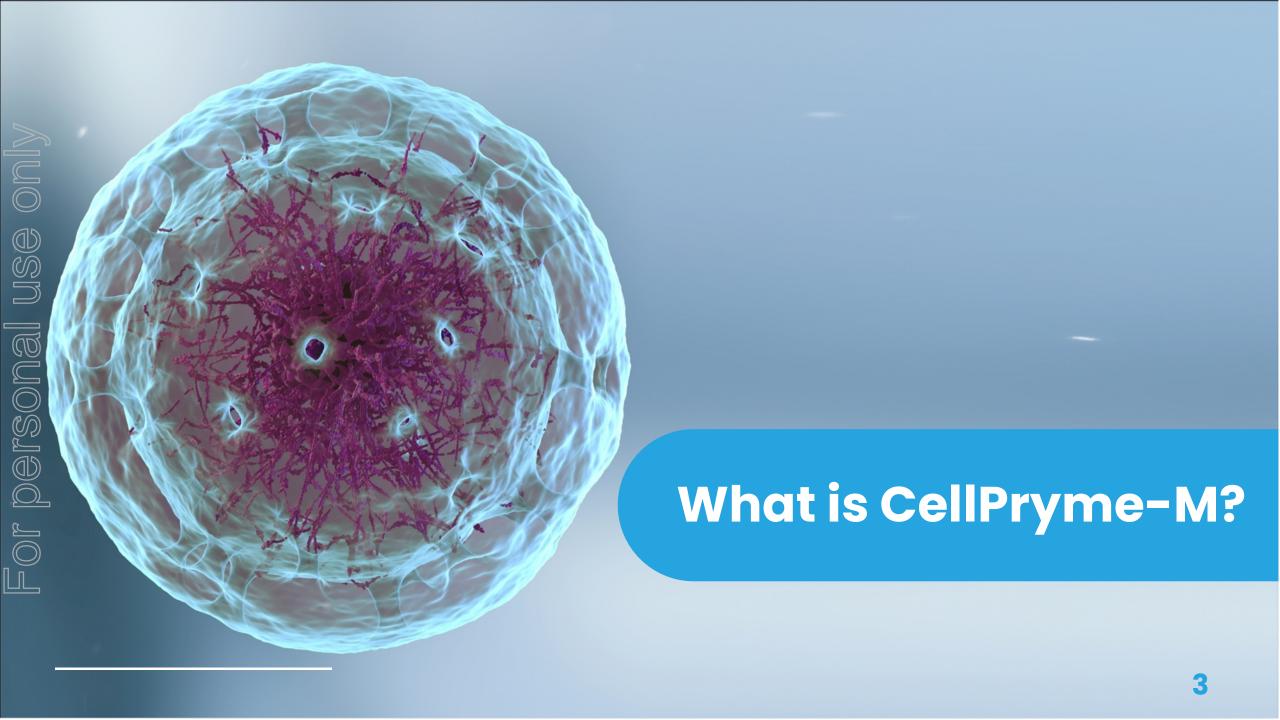


READY FOR CLINICAL TESTING



IP FULLY OWNED BY PTX

Developed by PTX in collaboration with Peter Mac



What does CellPryme-M do?



oersonal use

CellPryme-M is a single, rapid manufacturing step that produces a better, more effective cell type:

LONGER LASTING CELLS FOR SUSTAINED TUMOUR KILLING

- 50% more memory T cells
- Doubles helper T cells
- Doubles tumour control

CELLS THAT CAN BETTER LOCATE THE TUMOUR

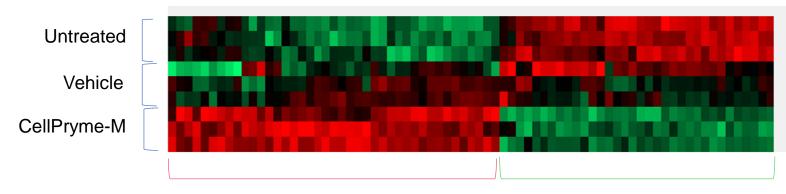
- Significantly more chemokine receptors for improved trafficking to tumour sites
- Important in solid tumours

How does CellPryme-M work?



- r persona

- Rapid, single 24-hour preconditioning step with standard manufacturing protocols
- Influences gene expression in immune cells
- "Pushes" the cells towards a more favourable phenotype



Down-regulated:

- Cell metabolism
- Protein folding & mRNA splicing

Up-regulated:

- Type 1 interferon signalling
- Cytokine signalling
- Genomic stability
- Potent anti-viral pathways

CellPryme-M Complements OmniCAR

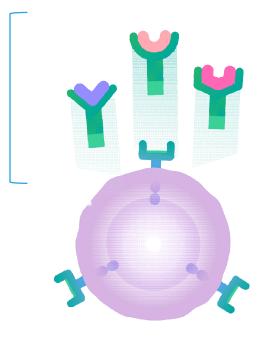








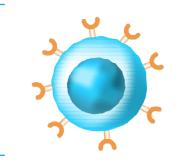
- Multi-targeting
- Redirection
- Control & safety
- Any target; any cell





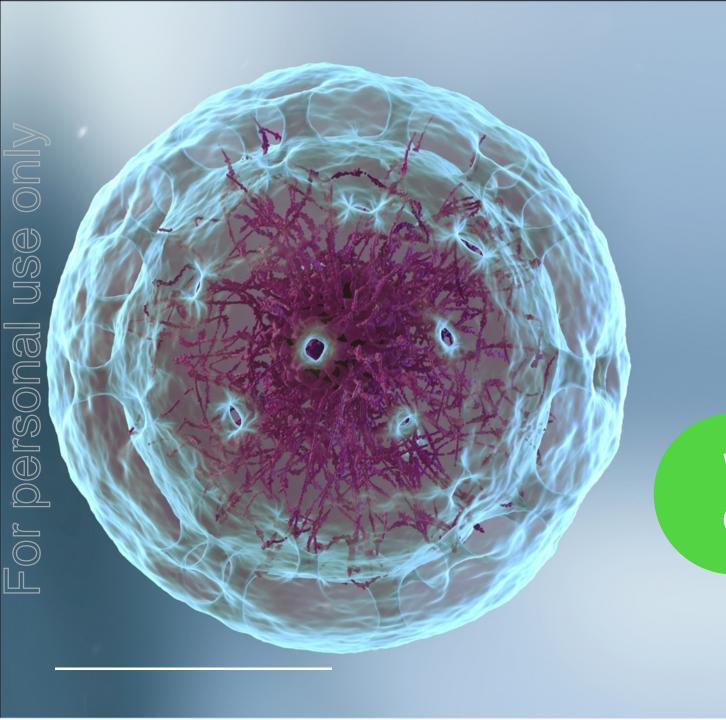
Process that produces a better <u>cell type</u>

- Persistence
- **Trafficking**



Next generation Cell therapies

Current generation cell therapies

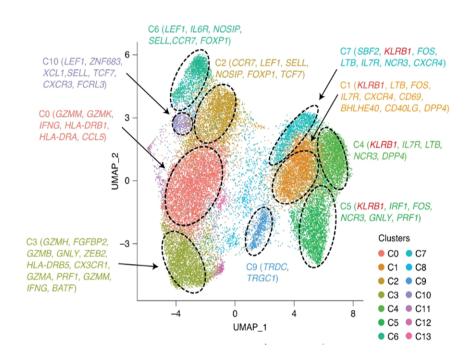


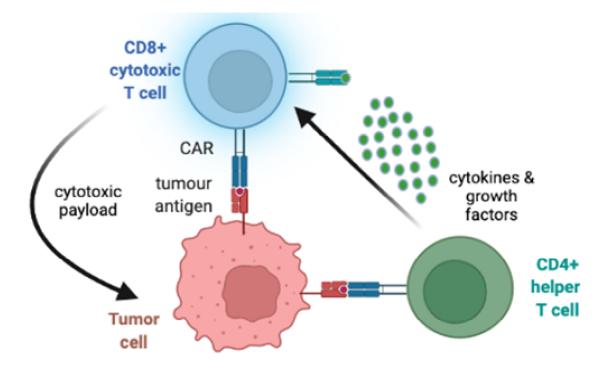
What problems does CellPryme-Movercome?

CAR-T cells: Not just one cell type!



T cells are extremely heterogenous, each with their own unique "fingerprint" that dictates **where** they go and **what** they do





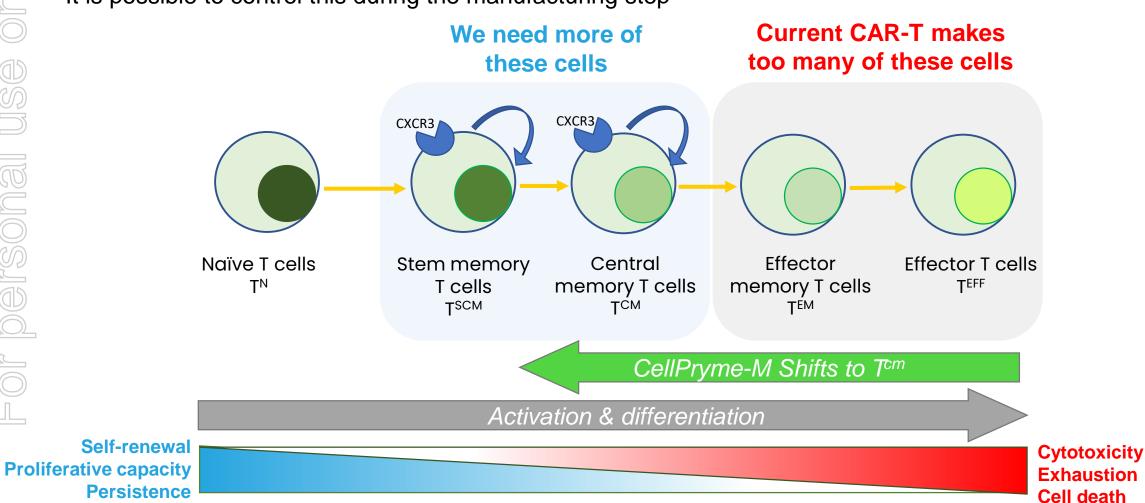
CD8+ T cells deliver the payload to kill cancer cells CD4+ T cells release cytokines and growth factors to sustain CD8+ T cells

More memory cells required for clinical efficacy Prescient



- Clinical efficacy of CAR-T therapy remains dependent on the T cell phenotype
 - It is possible to control this during the manufacturing step

Dersonal



Overcoming CAR-T's key challenges



		OmniCAR	:: CellPryme	
		Next generation	Conventional CAR-T	Next generation
	Poor cell expansion; manufacturing time & cost	n/a	\checkmark	\checkmark
	Safety	\checkmark		
	Post infusion control	\checkmark		
13	Tumour heterogeneity	\checkmark		
1 0	Escape	\checkmark		
	Trafficking	\checkmark	\checkmark	\checkmark
*	Tumour penetrance	\checkmark	\checkmark	\checkmark
	Suppressive tumour microenvironment	\checkmark		
[Exhaustion/persistence	\checkmark	\checkmark	\checkmark

CellPryme-M produces CAR-T cell types with ideal characteristics and attributes





Persistence

For longevity of effects and continued tumour control



Trafficking

CAR-T cells able to find their way to the tumour



Tumour penetrance

Cells that can penetrate solid tumours



Immune memory

Central memory T cells typically persist 10-20 years and as long as 75 years



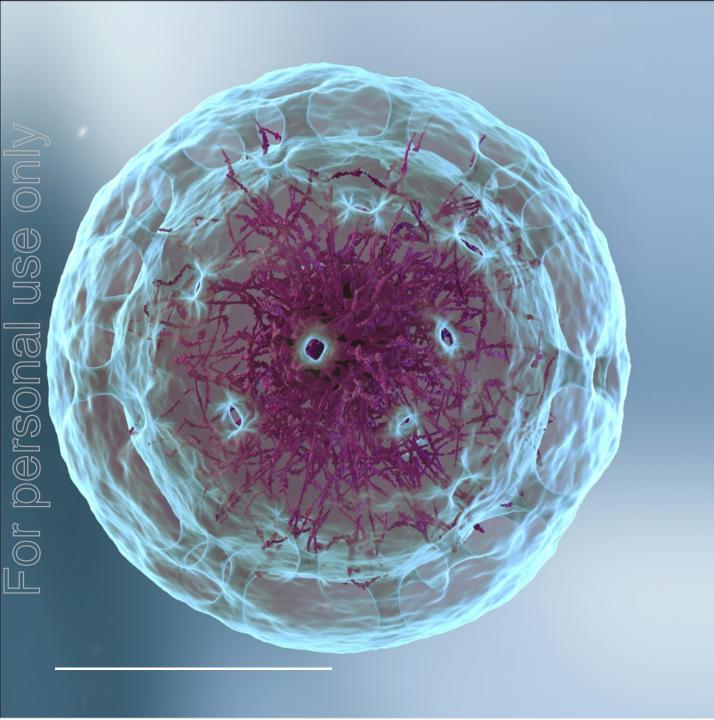
Genomic stability

Cells with enhanced self-renewal due to greater genomic stability



Anti-viral

Cells with potent anti-viral characteristics

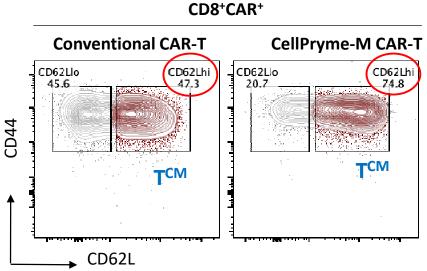


Compelling data

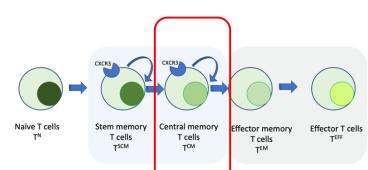
Greater Persistence: 50% more central memory cells than conventional CAR-T

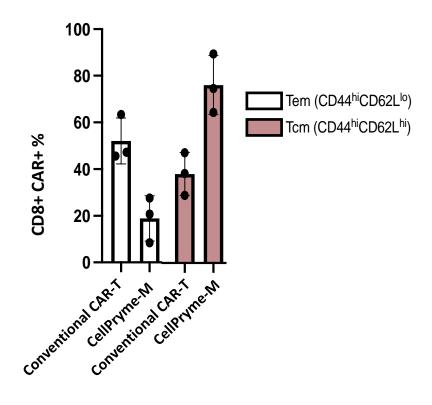


CellPryme-M increases central memory T cells 1.5-fold within 24hrs



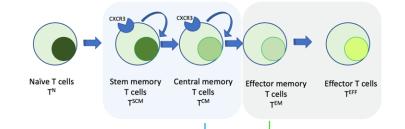
For personal





Greater Persistence/Less Exhaustion





Sustained increase in TCM

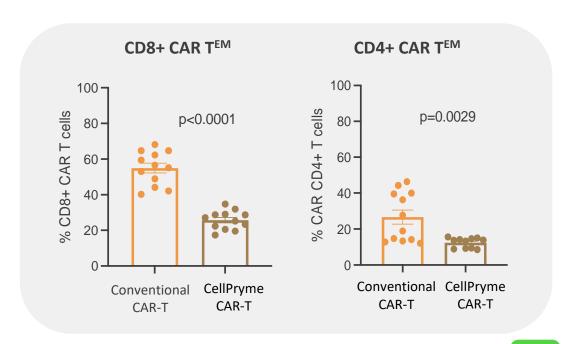
for both cytotoxic CD8+ and helper CD4+

Dersonal

CD4+ CAR TCM CD8+ CAR TCM 100 p<0.0001 100 -% CD8+ CAR T cells CD4+ CAR T cells 80 p<0.0001 80-60-40 60-20 Conventional CellPryme Conventional CellPryme CAR-T CAR-T CAR-T CAR-T

Sustained decrease in T^{EM}

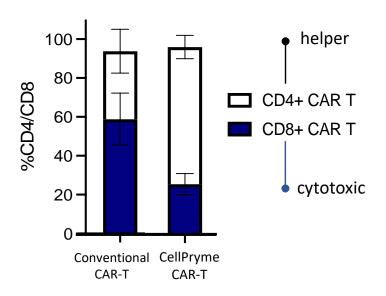
for both cytotoxic CD8+ and helper CD4+

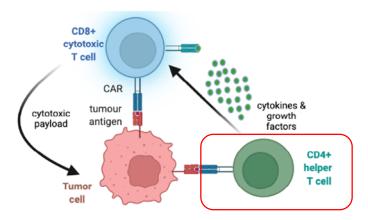


Synergy: CellPryme-M doubles proportion of helper T cells









- Shift towards dominant helper CD4+ CAR T cells
- Helper T cells are known to prevent the exhaustion of cytotoxic CD8+ T cells
 - Some can also have tumour killing ability
- Helper & cytotoxic T cells work in synergy to increase CAR-T persistence

CellPryme-M retains potency of cytotoxic T cells

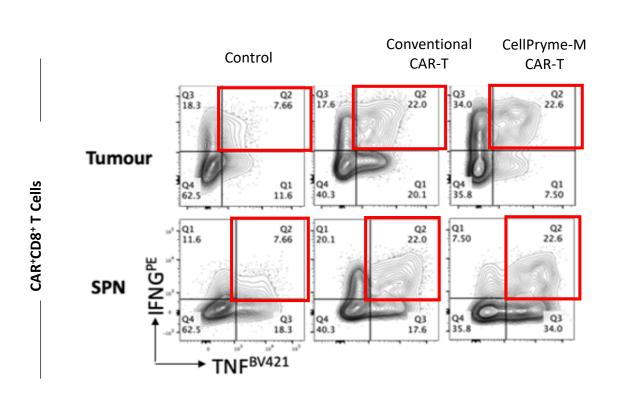


Better T cell phenotype does not come at the expense of:

Cytotoxic T cells:
 Potency retained

For bersonal

Cytokine production:
 No increased safety risk of CRS

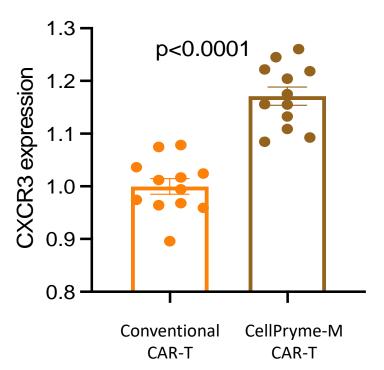


Trafficking: greater chemokine receptor expression



- Effector T cells can downregulate chemokine receptors (CXCR3), limiting the ability of conventional CAR-T cells to locate tumours
- CellPryme-M significantly increases CXCR3 expression on CAR-T cells
- Better trafficking to tumour site
- Better tumour penetrance

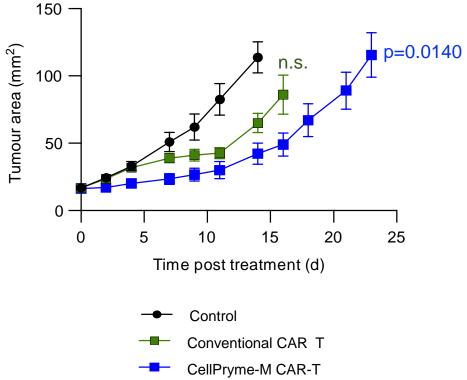
Chemokine receptor expression on CD8+ cytotoxic CAR-T cells



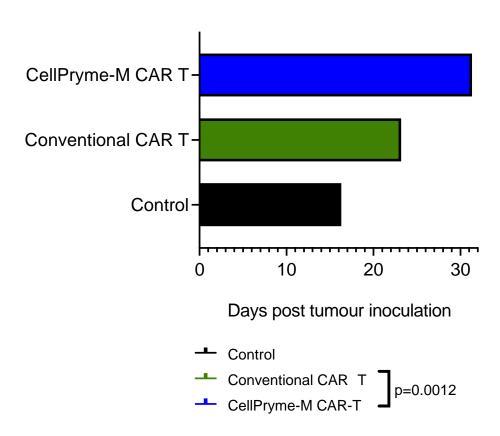
CellPryme-M doubles tumour control and survival

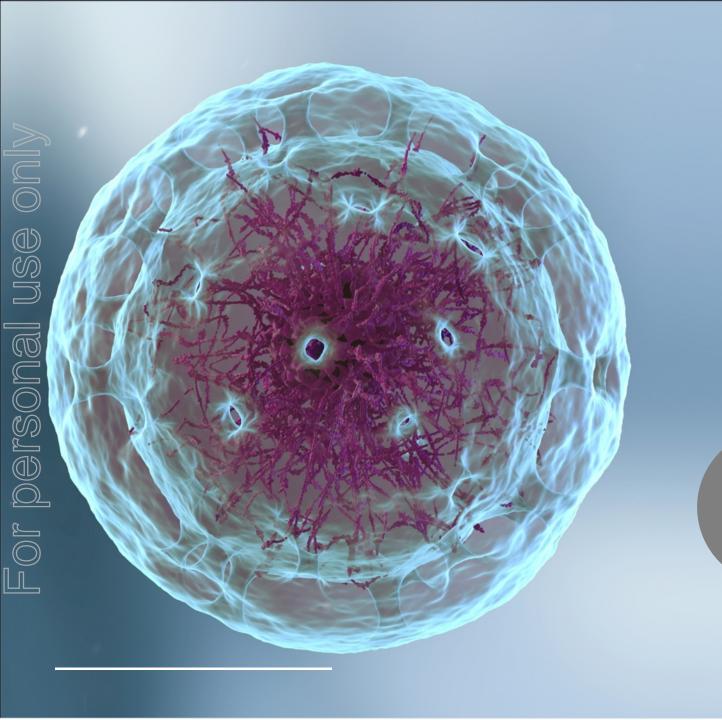


CellPryme-M nearly doubles CAR-T tumour control



CellPryme-M significantly increases survival





Steps towards commercialisation

CellPryme-M integration: rapid, value for money



- Integrates seamlessly into standard 3rd party manufacturing protocols
- No impact on manufacturing time
 - Rapid (single administration) 24-hour preconditioning step
- Compatible with emerging rapid CAR-T manufacturing protocols
- CellPryme-M has been manufactured at GMP grade and is ready for clinical use

Next steps and future applications





IN-HOUSE DEVELOPMENT

- PTX will be its own first customer
- Incorporate into internal OmniCAR programs
- Trade secret manufacturing process



EXTERNAL OPPORTUNITIES

- Incorporate into 3rd party programs
- Attractive option for improving existing suboptimal CAR T products
- Haematological malignancies
 - → to improve persistence
- Solid tumours
 - → to improve trafficking and persistence
- Revenue potential for PTX

CellPryme-M Summary





PLATFORM TO ENHANCE CELL THERAPIES

- Current gen and next gen
- Complementary to OmniCAR



READY FOR CLINICAL TESTING



IP FULLY OWNED BY PTX

PRODUCES SUPERIOR CELLS

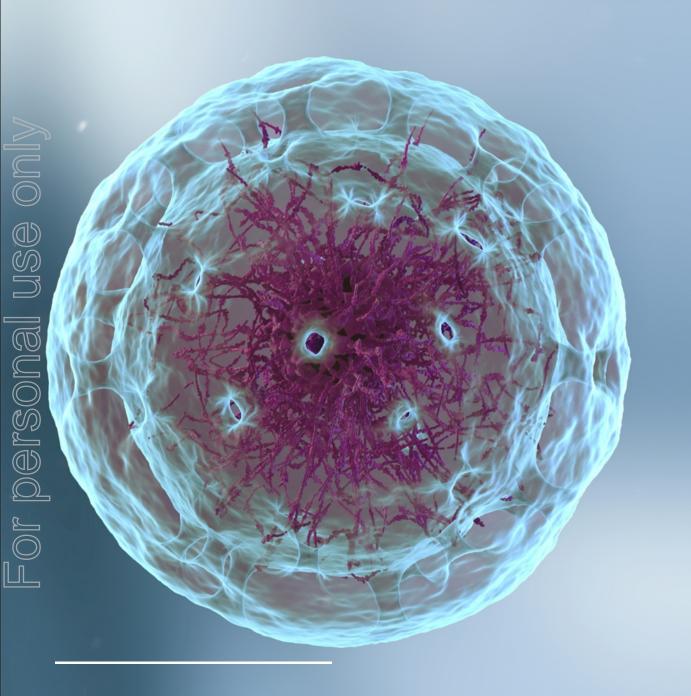


- 50% more memory T cells
- Doubles helper T cells
- More CXCR3 = tumour trafficking
- Doubles tumour control & survival
- Greater genomic stability
- Enhanced anti-viral activity

DEVELOPMENT OPPORTUNTIES



- PTX & 3rd party programs
- Use with any existing CAR-T manufacturing process with no loss of time





PTX-100

PTX-200



::: CellPryme

Coming soon:



A synergistic cell therapy enhancement