29 October 2020



ASX ANNOUNCEMENT

AusBiotech Conference Presentation

Melbourne, Australia; 29 October 2020: Cynata Therapeutics Limited (ASX: CYP), a clinical-stage biotechnology company specialising in cell therapeutics, is pleased to release a presentation that was given by Dr. Kilian Kelly at the AusBiotech + Invest 2020 conference on 28 October 2020.

The AusBiotech + Invest 2020 conference attracts industry leaders within the biotech space and is Australia's largest life science conference. Dr. Kelly presented as part of the regenerative medicine session, which provided an opportunity for Cynata to highlight the unique advantages of its Cymerus[™] therapeutic mesenchymal stem cell (MSC) platform technology to industry leaders and investors.

The conference presentation is attached to this release and provides an overview of the Company, the benefits of the Cymerus iPSC-derived MSC process and Cynata's key clinical programs.

Dr. Kilian Kelly, Cynata's COO, said:

"The AusBiotech + Invest conference was a valuable opportunity for Cynata to engage with industry leaders and investors as interest in regenerative medicine continues to grow. Our Cymerus technology is a unique MSC manufacturing platform and we look forward to generating further data on our MSC products in the upcoming clinical trials."

-ENDS-

Authorised for release by Dr Ross Macdonald, Managing Director & CEO

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About Cynata Therapeutics (ASX: CYP)

Cynata Therapeutics Limited (ASX: CYP) is an Australian clinical-stage stem cell and regenerative medicine company focused on the development of therapies based on Cymerus[™], a proprietary therapeutic stem cell platform technology. Cymerus[™] overcomes the challenges of other production methods by using induced pluripotent stem cells (iPSCs) and a precursor cell known as mesenchymoangioblast (MCA) to achieve economic manufacture of cell therapy products, including mesenchymal stem cells (MSCs), at commercial scale without the limitation of multiple donors.

Cynata's lead product candidate CYP-001 met all clinical endpoints and demonstrated positive safety and efficacy data for the treatment of steroid-resistant acute graft-versus-host disease (GvHD) in a Phase 1 trial. Cynata plans to advance its Cymerus[™] MSCs into Phase 2 trials for severe complications arising from COVID-19, GvHD, critical limb ischemia and into a Phase 3 trial for osteoarthritis. In addition, Cynata has demonstrated utility of its Cymerus[™] MSC technology in preclinical models of asthma, diabetic wounds, heart attack, sepsis, acute respiratory distress syndrome (ARDS) and cytokine release syndrome.

CUNDID therapeutics

A Next Generation Stem Cell Therapeutics Company

Kilian Kelly, PhD Chief Operating Officer, Cynata Therapeutics Limited





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Cynata Therapeutics is a clinical stage biotech with a highly scalable, proprietary platform for developing stem cell therapeutics



Our focus

Utilise our proprietary Cymerus[™] platform technology to develop commercially scalable mesenchymal stem cell (MSC) therapeutic products to treat serious disorders

About us

- Stem cell and regenerative medicine company
- Induced pluripotent stem cell (iPSC)-based technology from University of Wisconsin-Madison
- Addresses a critical shortcoming in existing methods of MSC production – the ability to achieve economic manufacture at commercial scale
- First product, CYP-001, licensed to Fujifilm for graftversus-host-disease (GvHD)
- Multiple further products in pipeline

Financial information

Share price (26-Oct-20)	A\$0.81	
Shares on issue	117m	
Market capitalisation	A\$95m	
Cash ¹	A\$13.6m	
Debt	-	
Enterprise value	A\$81.4m	

Top shareholders



Over **1,200** clinical trials of MSCs have been initiated¹



Growing body of evidence for the therapeutic role of MSCs in wide range of conditions:

- Modulate the immune system
- Regenerate damaged tissue
 - Accelerate recovery from the effects of disease or injury

However: major challenges associated with consistent and scalable manufacture of primary, donor-derived MSCs

Induced Pluripotent Stem Cells (iPSCs)





- Murine iPSCs first generated by Shinya Yamanaka, Kyoto University in 2006¹
- Generation of human iPSCs first reported by two independent groups almost simultaneously in November 2007:
 - Shinya Yamanaka² (awarded Nobel Prize in 2012)
 - James Thomson, University of Wisconsin-Madison³
- iPSCs are mature cells reprogrammed to behave like embryonic stem cells (ESCs):
 - Indefinite replication capacity
 - Capacity to differentiate into any adult cell type
 - Because iPSCs are sourced from adult cells, ethical controversy associated with ESCs is avoided





→ iPSCs represent an ideal starting material for cellular production processes

3. Yu J, Vodyanik MA, Smuga-Otto K, et al. Science. 2007;318(5858):1917-20.

^{1.} Takahashi K, Yamanaka S. Cell. 2006;126(4):663-76.

^{2.} Takahashi K, Tanabe K, Ohnuki M, et al. Cell. 2007;131(5):861-72.

Conventional MSC processes



MSCs change when excessively expanded (loss of potency, senescence, decreased efficacy)

- \rightarrow limited number of doses per donation
- \rightarrow new donors required more frequently

 \rightarrow more variability

Cymerus[™] iPSC-derived MSC process





Cymerus platform: potential applications



CYP-001 Phase 1 Clinical Trial in GvHD



medicine

LETTERS

Production, safety and efficacy of iPSC-derived mesenchymal stromal cells in acute steroid-resistant graft versus host disease: a phase I, multicenter, open-label, dose-escalation study

Adrian J. C. Bloor^{1,2}, Amit Patel^{1,1}, James E. Griffin³, Maria H. Gilleece^{1,2}, Rohini Radia⁵, David T. Yeung^{6,7}, Diana Drier⁸, Laurie S. Larson⁸, Gene I. Uenishi⁹, Derek Hei¹⁰, Kilian Kelly¹¹, Igor Slukvin¹⁰ and John E. J. Rasko^{12,13,14}

Key clinical trial results (primary evaluation at Day 100)



First completed clinical trial worldwide involving iPSC-derived cells in any disease



Subject A3 showed a PR at Days 14 and 21 but died due to pneumonia on Day 28

* Subject B5 withdrew from the trial on Day 22 to commence palliative care

Eight subjects were enrolled in each cohort, but one subject in Cohort B withdrew prior to infusion of CYP-001

No treatment-related serious adverse events or safety concerns were identified

The MEND trial (The MEseNchymal coviD-19 trial)



• 24 adult patients admitted to intensive care with COVID-19 and respiratory distress Target (compromised lung function), demonstrating symptoms which could include ARDS and population other common hallmarks of serious infection (sepsis, CRS) Respiratory distress, CRS & sepsis also represent significant unmet needs beyond Rationale COVID-19 for selection Strong pre-clinical results in indications that can arise from a severe case of COVID-19 In collaboration with the Cerebral Palsy Alliance Research Institute and the COVID-19 Stem Cell Treatment Group Open-label, randomised controlled clinical trial: Cymerus MSC infusions plus standard **Clinical trial** care (n=12) or standard care only (n=12)design • **Primary endpoints:** change in PaO₂/FiO₂ ratio by Day 7, and safety & tolerability Secondary endpoints: include clinical improvement scale; CRP levels; ventilator-free days; other physiological indices of respiratory function

Osteoarthritis | New Phase 3 program Funded by National Health and Medical Research Council





30,000,000 People in the USA affected by osteoarthritis ~US\$11.6B¹ Forecast global market opportunity by 2025

Ĭ	Osteoarthritis	 Assess the effect of Cymerus MSCs on clinical outcomes and knee joint structures of patients with osteoarthritis of the knee (compared to a placebo)
> 	Rationale for selection	 Preclinical research showed MSCs can exert a number of important effects, including release of cytokines and growth factors that reduce inflammation and promote tissue repair, new blood vessel formation, and regeneration of compromised cartilage which may result in improved outcomes for patients
	Clinical trial design	 440-patient trial sponsored by the University of Sydney and funded by NHMRC/in-kind contributions from participating institutions (no cash contribution from Cynata)
		 Cynata to supply Cymerus MSCs for use in the trial² and will retain full commercial rights to the use of Cymerus MSCs in osteoarthritis
	Key milestones	Phase 3 clinical trial expected to commence in 2H2020



Thank you for your attention

Cynata Therapeutics Limited

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