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Investment overview



- Unique technology to efficiently mass-produce mesenchymal stem cells (MSCs), a highly promising type of therapeutic stem cell
- World first clinical trial, with clear early efficacy and safety data received from 1st patient cohort & providing a springboard for further clinical studies
- Cynata's initial target area is GvHD, intended to prove the quality of the MSC's produced by its patented Cymerus™ platform
- Scalable business model intended to target a broad range of disease target areas over time, and monetise these through licensing & partnerships
- Large, active and growing market, with over 650 trials investigating the efficacy of MSCs in treating diseases including osteoarthritis, stroke & cardiovascular disease
- Monetisation of the business model has already commenced, as license options have been entered with Fujifilm, who are Cynata's largest shareholder with 9%
- 7 Strong balance sheet with cash runway into 2019 based on current projections

Corporate overview: A biotech company with a world-first clinical trial and leading technology platform



 Cynata Therapeutics is an Australian stock exchange listed clinical-stage biotechnology company developing disruptive regenerative medicines.
 Cynata shows strong potential for 2018, with a strategic partnership and license option agreement in place with Fujifilm

Financial information

Share price (6 April 18)	A\$1.44
52 week low / high	A\$1.49 / A\$0.37
Shares on issue ¹	90.8m
Market capitalisation	A\$131m
Cash (as at 31-Dec-17)	A\$8.8m
December quarter expected cash burn	~\$2.1M
Debt (as at 30-Jun-17)	-
Enterprise value	A\$122m

Source: IRESS

Notes: Excludes 10.4m unquoted options with exercise prices ranging from \$0.40 to \$1.022 and expiry dates between 27-Sep-2018 and 4-Aug-2020, and 750k unlisted incentive options with exercise price \$0.49 and expiring 16 December 2018 (500k subject to vesting conditions)

6 month share price performance



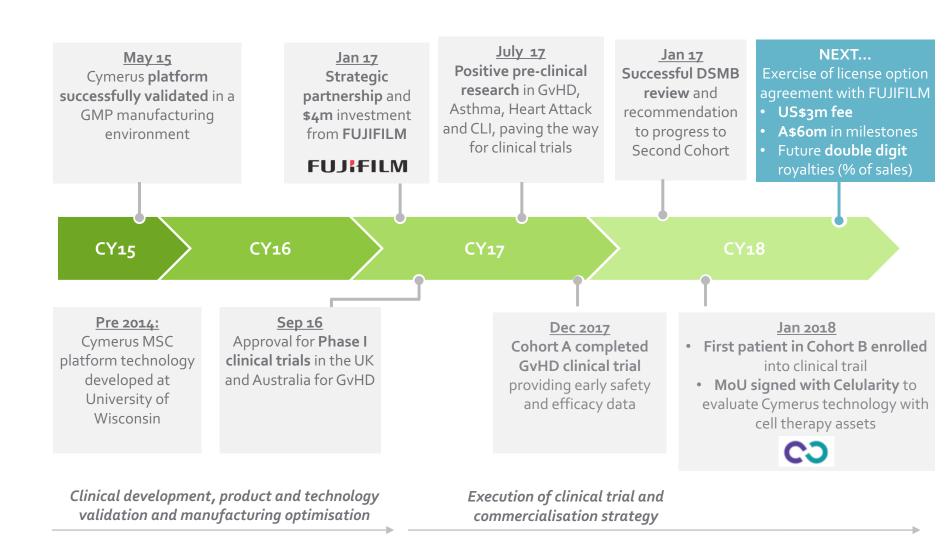
Top Shareholders

Shareholder	%
Fujifilm corporation	8.98
Board and Management	8.12%
Number of shareholders	~2300

Notes: ASX listed peers incorporates the average share price movements of MSB, RGS, CTE, OCC, LCT over the last 6 months

Accelerating towards trial completion





Why MSCs?



What are MSCs?

 Mesenchymal stem cells (MSCs) are highly potent adult stem cells found in bone marrow and certain other tissues.

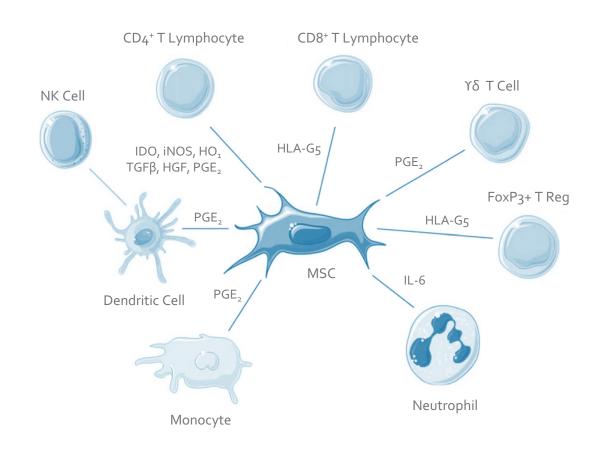
What do they do?

- They have the ability to self renew.
- They secrete bioactive molecules and have immunosuppressive and immunoregulatory properties – giving them enormous therapeutic potential.

How much commercial interest is there?

Over 650 clinical trials investigating the efficacy of MSCs in treating diseases have been initiated.¹

Promising results have been shown in conditions such as heart attack, stroke, GvHD, Crohn's disease, multiple sclerosis, osteoarthritis and diabetes complications



Source: 1. www.clinicaltrials.gov

The Current Challenge



"the most egregious divergence between [commercial and academic MSC products] is the scale of product expansion"

Cynata's Cymerus platform solves this challenge....

Source: Galipeau, Cytotherapy, 2013; 15: 2e8

Only company in the world with a platform to mass-produce MSCs without multiple donors



First generation process has multiple shortcomings

Donation taken through a complex surgical procedure Purified MSCs then massively expanded to provide sufficient quantities

Therapeutic MSCs are administered to the patient









X Costly and time-consuming donor recruitment and qualification



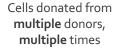










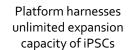


MSCs are isolated from other cell types in the sample

Finished product packaged

Cynata's patented Cymerus platform overcomes these challenges by using induced iPSCs that are derived from a single blood donation

Cells donated from one donor, one time via a simple blood donation



Generation of precursor cell colonies (mesenchymoangioblasts: MCA)

Therapeutic MSCs are administered to the patient

















Consistent product quality



Maintained product efficacy



Efficient production scale-up



Cost-effective donor recruitment

Cells re-programmed to derive induced pluripotent stem cells (iPSCs*)

Induction of precursor cells Differentiation to MSCs and packaging



Regenerative medicine market growing rapidly and MSCs are a major growth driver



How big is the market for regenerative medicine?

"Global regenerative medicine market was worth \$18.9 billion in 2016 and will grow to over \$53.7 billion by 2021"

"Stem cells are the cornerstone of contemporary regenerative medicine applications2"

How feasible are MSCs as a treatment?

Over 650 clinical trials investigating the efficacy of MSCs in treating diseases have been initiated.³

Promising results have been shown in conditions such as heart attack, stroke, GvHD, Crohn's disease, multiple sclerosis, osteoarthritis and diabetes complications

Sources: 1. Research and Markets - Global Regenerative Medicine Market Analysis & Forecast. 2. Orkin SH, Zon LI. Hematopoiesis: an evolving paradigm for stem cell biology. Cell. 2008. 3. www.clinicaltrials.gov

Cynata is operating in a highly active market



Cell therapy is a key category and no longer an evolving market

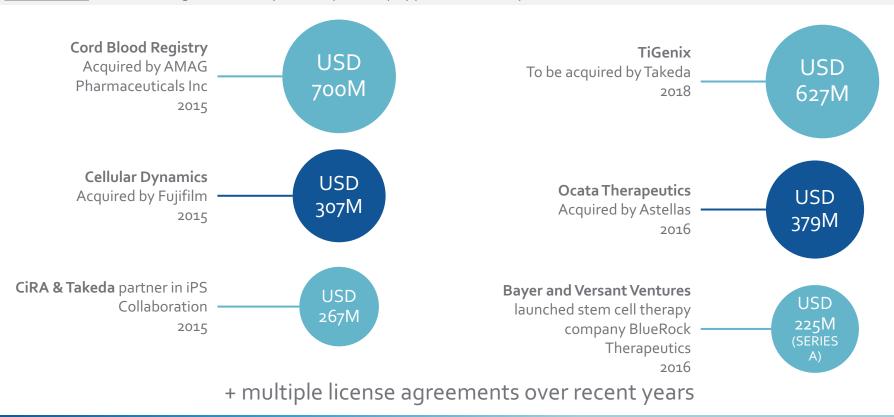
August 2017: US FDA approved Novartis' product, Kymriah, a T cell (CAR-T) treatment for leukemia

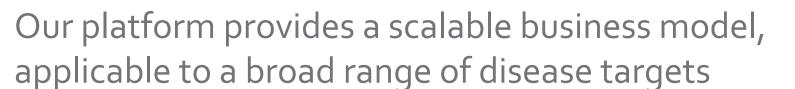
August 2017: Gilead to acquire Kite Pharma for US\$11.9b. Kite develops similar CAR-T cell products for cancer treatment

October 2017: FDA approved Kite Pharma's product, Yescarta, a CAR-T treatment for leukemia

January 2018: Celgene moves to acquire Juno in a US\$9b transaction

March 2018: TiGenix allogeneic MSC product (Alofisel) approved in Europe







	External collaborations	Vigorous partner engagement	Ongoing revenue stream
Phase:	Pre-clinical	Phase I, II, III	Market
What:	 Develop Preclinical Proof of Concept (PoC) of potential products for target diseases 	 Upfront payments from option/license agreements with pharma and biotech partners 	 Milestone and royalty revenue, with minimal capital expenditure required
Progress to date:	 Proof-of-concept completed or ongoing for multiple target diseases: Heart attack Pulmonary disease CLI Brain cancer 	 License option agreement with FUJ:FILM Phase I trial now recruiting patients MoU with Celularity to evaluate platform with cell therapy assets 	 Proposed license agreement with FUJ:FILM includes ongoing milestone payments plus royalties relating to GvHD (the target disease their license relates to)

Early monetisation via multiple revenue streams

- ✓ Upfront License payments
- ✓ Milestone payments
- ✓ Royalties

Develop revenue streams not requiring ongoing capital expenditure

Indications Currently Being Investigated



		ernal orations) –	s partner Jement	Further revenues	
Disease target area	Pre-clinical trials started	Proof of concept completed	Deal secured	Clinical trial started	Product in- market	Key highlights
Graft v Host Disease (GvHD) University of Massachusetts	✓	✓	✓	✓		 Pre-clinical research with University of Massachusetts show Cymerus MSCs to be highly effective in GvHD Half a billion dollar market by 2021
Asthma Monash University MONASHURWERSHY	✓	✓				Cymerus MSCs demonstrated significant beneficial effects on three key components of asthma: airway hyper- responsiveness, inflammation and airway remodeling.
ARDS Critical care research group Critical Care RESEARCH GROUP	✓					Study to commence to evaluate effectiveness of Cymerus MSCs in sheep with ARDS in association with the Prince Charles Hospital in Brisbane.
Heart attack University of Sydney	✓					 Pre-clinical trials suggest Cymerus MSCs may have the potential to restore cardiac function and reduce scar size after a heart attack (US\$18.2 billion market by 2019¹)
Brain Cancer / Glioblastoma Harvard/BWH	✓					 Research collaboration in genetically modified MSCs in cancer: involves modifying stem cells to target cancer
Critical Limb Ischemia University of Wisconsin-Madison	✓	✓				 Pre-clinical study published in peer reviewed journal Cytotherapy, The Journal of Cell Therapy. Study found treatment with MSCs demonstrate beneficial impact on CLI.

Successful outcomes open many other disease targets potentially benefiting from MSC treatment

Business is focused on progressing the worldfirst clinical trial of CYP-oo1 in GvHD



Pre-clinical	Cymerus TM MSCs demonstrated a significant survival benefit in a pre-clinical rodent model of Graft vs. Host Disease	Completed
Partnering	License option agreement secured with Fujifilm, including upfront payments and potential for ~US\$30m annual royalties	Completed
World first clinical trial of CYP-001	Cohort A: 8 participants completed clinical trial providing early efficacy and safety data at lower dose level (1 million cells / kg)	8/8 patients recruited
	Independent safety and monitoring review (DSMB) completed with recommendation to continue trial	Completed
	Cohort B underway: Further 8 participants receive two CYP-001 infusions at the higher dose level (2 million cells / kg)	Commenced
	Results from phase 1 trial	During 2018

GvHD was the optimal first target area for several medical and commercial reasons



- MSCs have already shown to be an effective treatment against GvHD
 In Japan MSCs have been approved for use as a treatment for GvHD
- Short trial duration, with expected completion in early 2018
- Successful Cynata trial outcome opens the door to multiple further indications





International Marrow Donor Registries and Potential Donors 4



GvHD occurs in up to 70 per cent of patients receiving stem cell transplant to treat blood cancer¹



FUJIFILM's projections for the GvHD market show peak revenues of US\$300m p.a. which would result in >US\$30m per year in royalties for Cynata

Sources: 1. http://www.qimrberghofer.edu.au/2017/04/immune-cell-discovery-opens-possibility-new-treatment-deadly-disease/

 $^{2.\} https://www.visiongain.com/Report/1794/Global-Graft-versus-Host-Disease-(GVHD)-Market-2017-2027$

 $^{3.\} http://www.fcarreras.org/en/a-total-of-1-million-stem-cell-transplants-have-been-performed-worldwide_147898$

^{4.} https://bethematch.org/news/news-releases/international-marrow-donor-registries-reach-25-million-potential-donors--give-hope-to-searching-blood-cancer-patients-around-the-world/

GvHD Clinical Trial DSMB Analysis



- Date Safety Monitoring Board (DSMB) after Day 28 recommended the trial progress to the second cohort of patients (Cohort B)
- Cohort B receives a higher dose two infusions of CYP-001 at 2 million cells per kilogram of bodyweight versus 1 million cells per kilogram of bodyweight in Cohort A
- DAY 100 Highlights:
 - Overall Response rate was 100% (all eight participants showed an improvement in the severity of GvHD by at least one grade compared to baseline)
 - Overall survival was 87.5% (one patient died of pneumonia, unrelated to treatment)
 - Complete Response rate was 50% (GvHD signs/symptoms completely resolved in four out of eight patients)
 - No treatment-related serious adverse events of safety concerns identified
 - Trial recruitment has progressed to the second cohort (Cohort B) at all 7 sites in the UK and Australia
 - Trial expected to complete during CY18

Fujifilm has demonstrated confidence in Cynata's platform through a licensing agreement for GvHD



FUJiFILM is one of the largest global investors in regenerative medicine

- 2014: Fujifilm takes a controlling stake in Japan Tissue Engineering Co. (J-Tec)
 - J-Tec is a leading manufacturer of tissue engineered medical products, used in regenerative medicine
- 2015: Fujifilm paid US\$307m for CDI, Cellular **Dynamics International**
 - CYP sourced its iPSC's from CDI.
- 2016: Fujifilm acquires Takeda Pharmaceuticals' >70% stake in Wako Pure Chemical Industries for US\$1.3bn. Synergies include:
 - Regenerative medicine (particularly cell based therapies); Contract Development and Manufacturing Organization (CDMO) in Pharmaceutical Business
- 2017: Fujifilm Holdings Corp said it aimed to spend 500 billion yen in strategic acquisitions over 3 years (all outside its photo film business)

License overview: Development and commercialisation of Cynata's MSCs for GvHD

Strategic equity (A\$4m)

• Fujifilm receives **9%** equity in Cynata via Placement

Exercise of **Fujifilm option** (US\$3m)

- Any time up to 90 days after completion of Phase 1 trial.
- Upfront US\$3m milestone payment
- Fujifilm responsible for all further development activities and costs

Phase 2 and beyond

(US\$30m+p.a.)

- Fujifilm to pay Cynata agreed milestones (\$60m+) and doubledigit royalties on product sales
- FUJIFILM's projections for the GvHD market show peak revenues of US\$300m p.a. correlating to >US\$30m per year in royalties for Cynata

Board and management overview





Dr Paul Wotton Chairman

- Former CEO of Ocata Therapeutics (NASDAQ: OCAT) managing it through a take-over by Astellas Pharma, in a US\$379m transaction
- Previous executive roles with Antares Pharma Inc. (NASDAQ: ATRS), Topigen Pharmaceuticals and SkyePharma
- Founding CEO, Sigilon Therapeutics; member of the boards of Vericel Corporation and Veloxis; past Chairman of the Emerging Companies Advisory Board of BIOTEC Canada

Expertise running and monetising Ocata Therapeutics, acquired by Astellas



Dr Ross Macdonald Managing Director Chief Executive Officer

- 30 years' experience and a track record of success in pharmaceutical and biotechnology businesses
- Previous senior management positions with Hatchtech, Sinclair Pharmaceuticals, Connetics Corporation (Palo Alto, CA), and Stiefel Laboratories, the largest independent dermatology company in the world and acquired by GSK in 2009 for £2.25b

biotechnology

businesses





Dr Stewart Washer Non-Executive Director

- 20+ years of CEO and Board experience in medical technology, biotech and agrifood companies
- Chairman of Orthocell Ltd and Minomic International.
- Previously CEO roles with Calzada (ASX:CZD), Phylogica (ASX:PYC) and Celentis and managed the commercialisation of intellectual property from AgResearch in New Zealand with 650 Scientists and \$130m revenues

Deep experience growing companies as CEO and on the **Board**



Dr John Chiplin Non-Executive Director

- Significant international experience in the life science and technology industries
- Recent transactions include US stem cell company Medistem (acquired by Intrexon), Arana (acquired by Cephalon), and Domantis (acquired by GSK)
- Was head of the \$300M ITI Life Sciences investment fund in the UK and his own investment vehicle. Newstar Ventures





Mr Peter Webse Non-Executive Director **Company Secretary**

- +25 years' company secretarial experience
- Managing Director of Platinum Corporate Secretariat Pty Ltd, a company specialising in providing company secretarial, corporate governance and corporate advisory services



Dr Kilian Kelly Vice President, **Product Development**

- 15 years' experience in pharmaceutical/ biotechnology research and development, in both commercial and academic settings
- Previous appointments include Senior Director. Drug Development at Biota **Pharmaceuticals** (NASDAQ: BOTA), Vice President, Regulatory and Clinical at Mesoblast Limited (ASX:MSB)

25+ years company secretarial and management experience

Academic and commercial excellence, extensive relevant management experience

Investment Summary



- Unique technology to efficiently mass-produce mesenchymal stem cells (MSCs), a highly promising type of therapeutic stem cell
- World first clinical trial in progress with <u>clear</u> early efficacy and safety data received from first patient cohort
- Cynata's initial target area is GvHD, intended to prove the quality of the MSC's produced by its patented Cymerus™ platform
- Scalable business model intended to target a broad range of disease target areas over time, and monetise these through licensing & partnerships
- Large, active and growing market, with over 650 trials investigating the efficacy of MSCs in treating medically and commercially important diseases
- Monetisation of the business model has already commenced, as license options have been entered with Fujifilm, who are Cynata's largest shareholder with 9%
- 7 Strong balance sheet with cash runway into 2019 based on current projections



Thank you for your attention

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