

2014 Annual General Meeting: CEO Address

Dr Ross Macdonald, CEO, Cynata Therapeutics Limited

November, 2014







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Cynata Therapeutics Ltd Key Facts

ASX: Resumed trading Nov 2013 as CYP (prev ECQ)

Capital raised in Nov 2013: \$5m

Market Cap (17 Nov 14): \$19.4m

Shares on Issue*: 55.0m

Options (Dec 14, \$0.2): 11.11m

Cash (30 Sep 14): \$4.7m (18 months runway)

Number of shareholders: ~1150

Business focus:

Regenerative medicine: Cymerus™ stem cells

*includes 10m in escrow until 21 Nov 14

Major holders: Mr Ian Dixon 4.34%

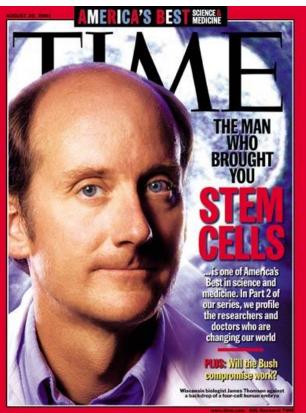
Prof Igor Slukvin 4.34%

Celtic Capital Pte Ltd 3.64%

JK Nominees Pty Ltd 3.64%

Cynata's Cymerus™: Outstanding Pedigree





- Inventors include Dr James Thomson
 - In 1998 derived the first human embryonic stem cell line
 - 2007 derived human induced pluripotent stem cells
- Prof Igor Slukvin, co-founder and author of >70
 publications in the stem cell field
- WARF: US\$2 billion endowment built from licensing and investment
- In-licensed intellectual property includes several issued US patents as well as a broad estate of issued and pending patents



Why are Mesenchymal Stem Cells (MSCs) Important?

MSC therapies are here and now:

Spinal cord injury	Neurodegenerative diseases (eg MS)
Eye diseases (eg AMD)	Chronic wounds
Stroke	Myocardial infarction (heart attack)
Graft-versus-host disease (GvHD)	Bone fracture; cartilage repair
Osteoarthritis	++++

- Translating to ~280* open clinical studies using MSCs to treat a variety of medical conditions
- Particular relevance to chronic diseases of ageing
- Major government initiatives to expedite stem cell therapies (eg Japan; California)



Headlines.....



are measured. But the field is much less dependent on them.

Treatment for Iranorza who received his own cells. began with the withdrawing of some of his bone marrow Researchers took adult cells believed to be stem cells from the marrow and then inserted them through a catheter directly into Inastoria's heart. About a third of his left ven-

jected back (stay the patient)

Although still at an exper-

people in the world who sat-fer from the condition.

part Aspentin, could feller the Sale for pole, repair by the c 20 years. There is, the socialistry that it could stop the theroid propression as

essecutive of Arthritis Care. told the Douby Med Galtre.
While the long serial effects are authors, and there should be coursed due to the

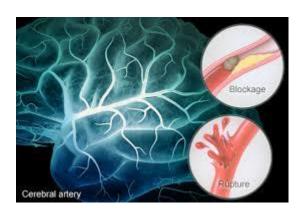
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righter of caught work as it indicates of the parented that your ingression marries said. This new though the promise and the parented to you per contract the promise are not cont.

et attack, which was setzibd to a hereditary cholesil problem. It's impossible coow for sure whether the te marrow cells' descenits became heart muscle s or if repairs were sparred se other was, but today, his sons tell him his heart is oned of the way back to normal i's enough, Iranorza said, dlow him to dance again to be the kind of father be its to be: "My quality of life he night and day to before

Stroke: A Case Study

- Devastating affliction that strikes young and old alike
- I.V. MSCs could be a safe therapy for promoting neurovascular repair, consequently supporting better functional recovery: trials underway



- Strokes cost the US economy \$36.5b p.a. with 795,000 patients annually¹
- Treatment of choice is thrombolysis: requires use <3 hours; overall benefit ~10%
- US market for stroke therapies estimated to approach \$1b by 2017²
- An effective MSC therapeutic could generate US sales in excess of \$1b p.a.³ and result in substantial improvement in patient outcomes



^{3.} Maxim research analysis May 2014

Roadblock for MSC Medicines: Manufacture

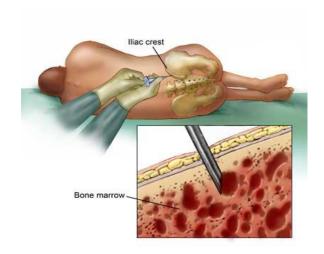




Current Manufacture of Stem Cell (MSC) Medicines

- Extract stem cells from human donor (eg bone marrow)
- MSCs represent a rare fraction of the cells in these tissues: a typical BM donation contains <20,000 MSCs
- BUT: A typical clinical dose is >100 million MSCs
- This means the donation needs to be expanded in the laboratory.....a lot!
- At commercial scale hundreds of new donors would be required each year, even if allowing for expansion





Multiple Donors – Multiple Problems

- Recruitment and qualification of donors is costly, time consuming and is associated with logistical challenges
- May involve risk/discomfort to donor especially with bone marrow or adipose tissue
- Intra- and inter- donor variability is likely to be significant
- Regulatory challenge:
 - Comparability studies will be required for each new donation, to demonstrate that change in starting material does not impact safety and/or efficacy of product
 - Analytical techniques not currently capable of demonstrating comparability, so in vivo efficacy data will likely be required



This issue is attracting increasing attention

Cytotherapy, 2013; 15: 2-8



REVIEWS

The mesenchymal stromal cells dilemma—does a negative phase III trial of random donor mesenchymal stromal cells in steroid-resistant graft-versus-host disease represent a death knell or a bump in the road?

JACQUES GALIPEAU

Departments of Hematology & Medical Oncology and Pediatrics, Emory University Winship Cancer Institute, Atlanta, Georgia, USA

"the most egregious divergence between [commercial and academic MSC products] is the scale of product expansion. The industrialization of MSC manufacturing has favoured the production of large lots of 10,000 doses from each volunteer donor"

"the hypothesis that cells approaching replicative exhaustion are functionally distinct from manufactured MSCs devoid of such exhaustion ... may provide a mechanistically based rationale justifying use of modestly expanded MSCs for GvHD"

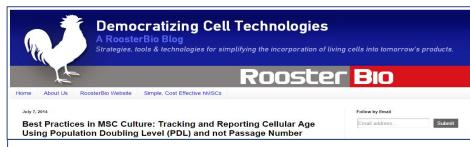
CLINICAL RESEARCH



Long-Term Complications, Immunologic Effects, and Role of Passage for Outcome in Mesenchymal Stromal Cell Therapy

Lena von Bahr, Berit Sundberg, Lena Lönnies, Birgitta Sander, Holger Karbach, Hans Hägglund, Per Ljungman, Britt Gustafsson, Helen Karlsson, Katarina Le Blanc,* Olle Ringdén*

"[lower] number of MSC expansion passages could be correlated to both better response and better survival"



"it is well documented that cell phenotype and function can be compromised the older a cell is"

"the regulators are going to ask that you define experimentally, backed up with data, the maximum PDL that will be used for clinical use. Lack of data in this area will likely not keep one out of a Phase 1 trial, but the further the product progresses in development and the clinical pipeline, this type of information is typically mandatory"

Commercial Manufacture of MSC Therapies

THE SOLUTION:

Cynata's Cymerus[™] technology facilitates commercial-scale manufacture of a consistent, reproducible product:

..."better, cheaper, faster"



Path to Revenue

- Following two paths to monetise the Cymerus[™] technology
 - Make our own stem cell medicines (GvHD and others progressing): confirm manufacturing process and efficacy;
 - Capital efficient license-driven strategy: partner with pharmaceutical companies and large biotech (in discussions); revenue through license fees, R&D payments and royalties; potential for M&A

• Cymerus[™] = unlimited high quality stem cells for medicine



Cynata Therapeutics: The Past 12 Months

- Building a solid foundation for the future:
 - Timetable and budget consistent with October 2013 prospectus and market updates
 - Recruited VP, Product Development (ex MSB)
 - Product manufacturing and process development well advanced (Waisman)
 - Secured GMP-grade iPS cell line (CDI)
 - Further proof-of-concept study underway (following successful CLI study)
 - Completed regulatory review and roadmap: commenced interaction with regulators
 - Contracted pre-clinical program
 - Commenced planning for a Phase 1 clinical trial: Graft-versus-Host Disease
 - Engagement with potential partners (announced Grey Innovation)
 - Research coverage by both Baillieu Host and BBY: "buy" ratings



Cynata: The Year Ahead

- Important Development Milestones and Value Catalysts:
 - Complete master cell bank (MCB)
 - Complete manufacturing scale-up: manufacture Cymerus™ GMP MSC's
 - Formal interaction with regulatory agencies (eg EMA, FDA)
 - Data from pre-clinical program and PoC study in GvHD model
 - Clinical trial jurisdiction and logistics (GvHD)
 - Continued engagement with potential partners
- Vigorous investor relations campaign
- Continued clinical success of MSC-based therapeutics



Thank you for your attention

