



#### Becoming a Next Generation Stem Cell Company

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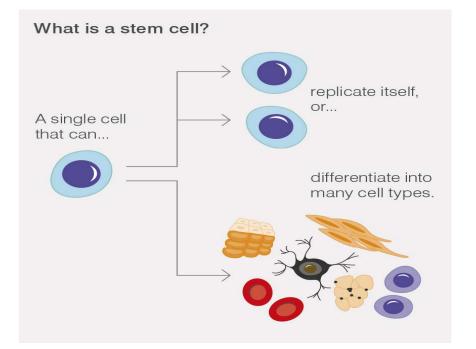
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# What is a Stem Cell?

• Unspecialised (undifferentiated) cells in the body that give rise to all functional cell types: blood, nerves, bone, muscle.....

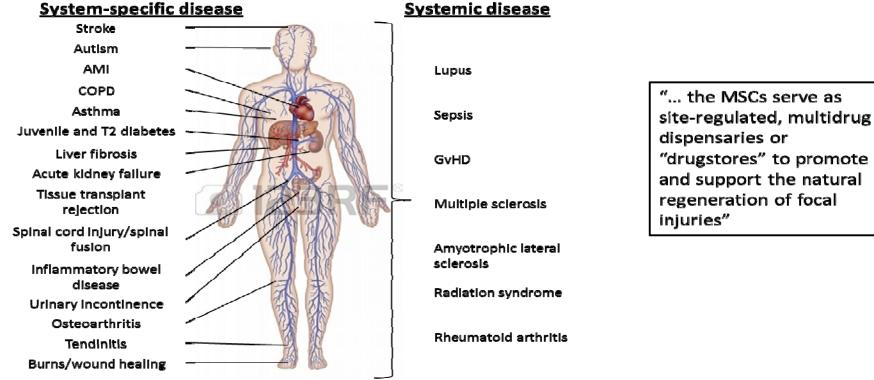


- Assist in the body's own ability to repair or replace tissue that is damaged or destroyed by injury or disease:
  - Physical reconstruction of tissue (or causing it to happen)
  - Immune modulation, i.e. anti-inflammatory



#### Stem cells: the ultimate platform?

#### ...one of the most exciting medical advances in recent years



"... all of these disorders and conditions appear to be muted or cured by the injected or infused MSCs based upon two generalisable therapeutic activities: immunomodulation and trophic activities."

Caplan

therapeutics

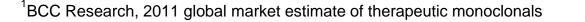
Adapted from Caplan and Correa (2011): The MSC: An Injury Drugstore. Cell Stem Cell 9,11-15

# Stem Cell Field is Emerging

- Analogous to monoclonal antibody enabling technologies in '80s and '90s which now have a therapeutic market value in excess of US\$44.6b<sup>1</sup>
- Commercial stem cell products are entering the market:
  - Prochymal (GvHD) Osiris (USA)
  - Cartistem (Osteoarthritis) Medipost/Dong-A (Korea)
- Most stem cell companies attractively priced based on forward estimates

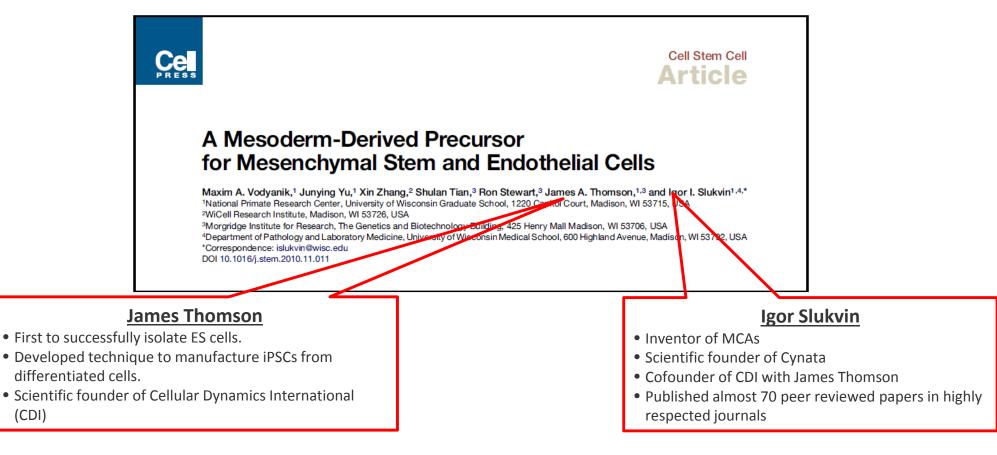
therapeutics

- Multiple products in Phase 2 and 3
  - Sector news flow
  - Creates opportunities for Cynata
- Big pharma partnering/M&A:
  - Teva/Mesoblast
  - Pfizer/Athersys
  - United Therapeutics/Pluristem
  - Novartis/Regenerex

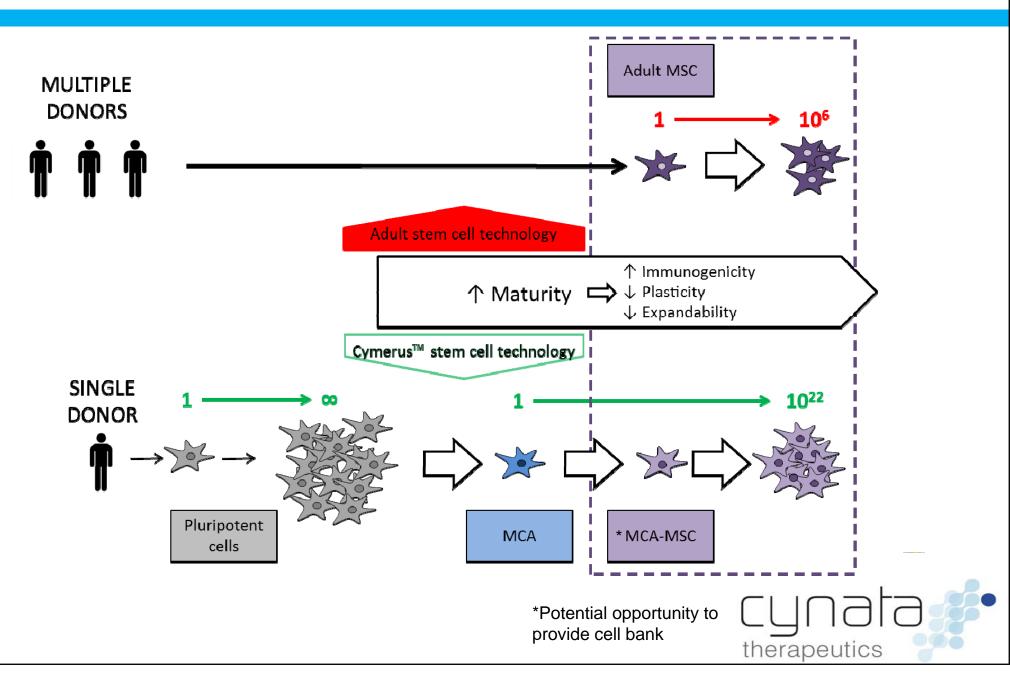


# Cymerus<sup>™</sup> Stem Cell Technology

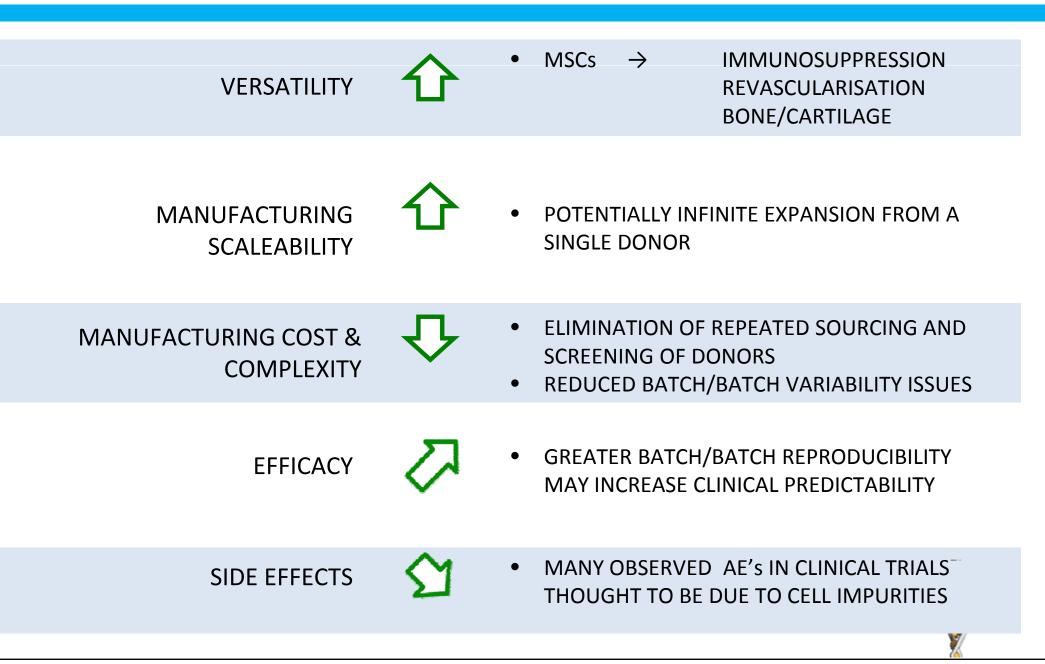
 Outstanding pedigree: inventors include James Thomson of the University of Wisconsin who derived the first human embryonic stem (ES) cell line in 1998 and human induced pluripotent stem cells (iPSCs) in 2007



#### Cymerus<sup>™</sup> : manufacturing scalability



#### Potential Benefits of Cynata's MSCs vs Adult MSCs



## Cymerus<sup>™</sup> Development Strategy

- REGULATORY: confirmation of regulatory strategy to assist in preclinical requirements and facilitate first-in-man Phase 1 study
- MANUFACTURE: manufacture of Cymerus<sup>™</sup> product for pre-clinical program; commence development of manufacturing scale-up
- CLINICAL: aim to commence Phase 1 clinical study during 2H14 or 2015 (dependent upon regulatory path)
  - Selection of lead indication during 4Q13: short study, clear endpoints
  - Identify most attractive & feasible indication and study center(s)
  - Support with appropriate pre-clinical and further PoC studies
- Expect value inflection points coincident with this program and with partnering activity



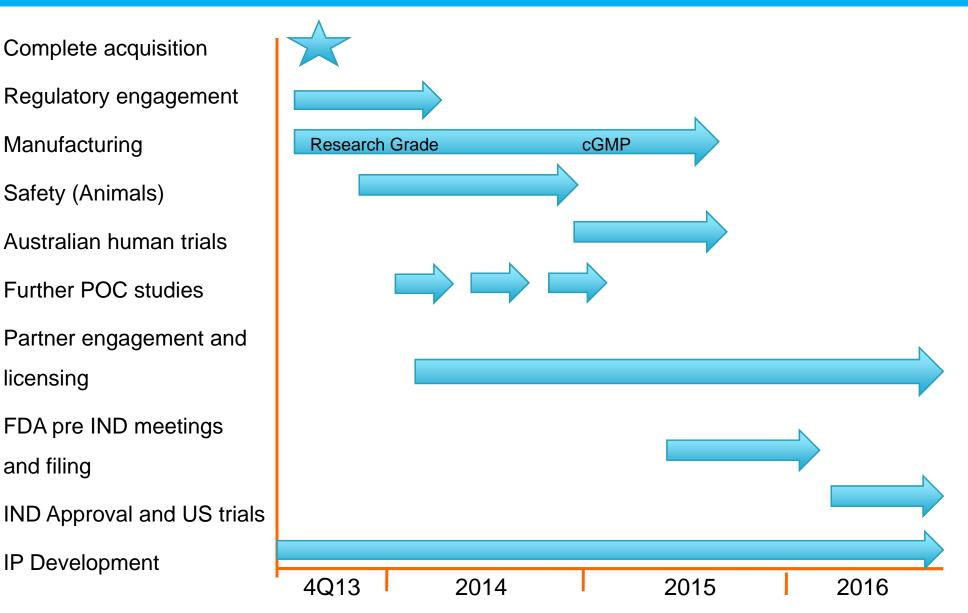
#### Proposed Budget: 2013-15

Item	minimum Capital Raising (\$5 million) plus existing cash	maximum Capital Raising (\$6 million) plus existing cash
Development of the Company's existing assets	\$200,000	\$200,000
Estimated cost of the Acquisition and Capital Raising and associate matters	\$512,635	\$574,580
Development of regulatory strategy	\$300,000	\$125,000
Pilot scale product manufacture	\$200,000	\$200,000
Manufacturing process development	\$1,500,000	\$1,500,000
Pre-clinical development	\$1,650,000	\$1,650,000
Clinical trial preparation	\$600,000	\$300,000
Clinical trial	-	\$1,310,000
Contingency	\$400,000	\$454,000
Working capital and corporate administration	\$1,337,365	\$1,386,420
TOTAL	\$6,700,000	\$7,700,000

Budget is indicative only and is subject to change. It does not include the effect of any exercise of options on issue in ECQ

CUNDID therapeutics

## **Proposed Cynata Timeline**



Subject to completion of potential ECQ acquisition

## Potential revenue from Cymerus<sup>™</sup> Technology

- Cynata acquisition provides a means to enter this vibrant field and offers two potential revenue sources:
  - Clinical need: specific "off the shelf" therapeutic products derived from the Cymerus<sup>™</sup> technology
  - Manufacturing scalability: Cymerus<sup>™</sup> proprietary (enabling) method of commercial-scale manufacture → platform technology for partnering/licensing
- Partnership-driven business strategy: business development activities will be initiated upon completion of roll-up

