

Cynata Presenting at Advanced Therapies Congress

Melbourne, Australia; 18 March 2025: Cynata Therapeutics Limited (ASX: “CYP”, “Cynata”, or the “Company”), a clinical-stage biotechnology company specialising in cell therapeutics, is participating in the Advanced Therapies Congress 2025.

The congress, which is taking place at the ExCel Centre in London, is Europe’s largest commercial cell and gene therapy conference and exhibition. It attracts over 2,500 attendees including senior biopharmaceutical executives, clinicians, academics, payers and regulators.

Dr Mathias Kroll (Cynata’s Chief Business Officer) will present on the Company’s clinical development programs at 13:40 GMT today, and participate in partnering meetings during the conference. A copy of Dr Kroll’s presentation is attached.

-ENDS-

Authorised for release by Dr Kilian Kelly, CEO & Managing Director

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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 has demonstrated positive safety and efficacy data for its Cymerus™ product candidates CYP-001 and CYP-006TK, in Phase 1 clinical trials in steroid-resistant acute graft versus host disease (GvHD), and diabetic foot ulcers (DFU), respectively. Further clinical trials are now ongoing: a Phase 2 trial of CYP-001 in GvHD under a cleared US FDA IND; a Phase 1/2 trial of CYP-001 in patients undergoing kidney transplant; and a Phase 3 trial of CYP-004 in osteoarthritis. In addition, Cynata has demonstrated utility of its Cymerus™ technology in preclinical models of numerous other diseases, including critical limb ischaemia, idiopathic pulmonary fibrosis, asthma, heart attack, sepsis, acute respiratory distress syndrome (ARDS) and cytokine release syndrome.

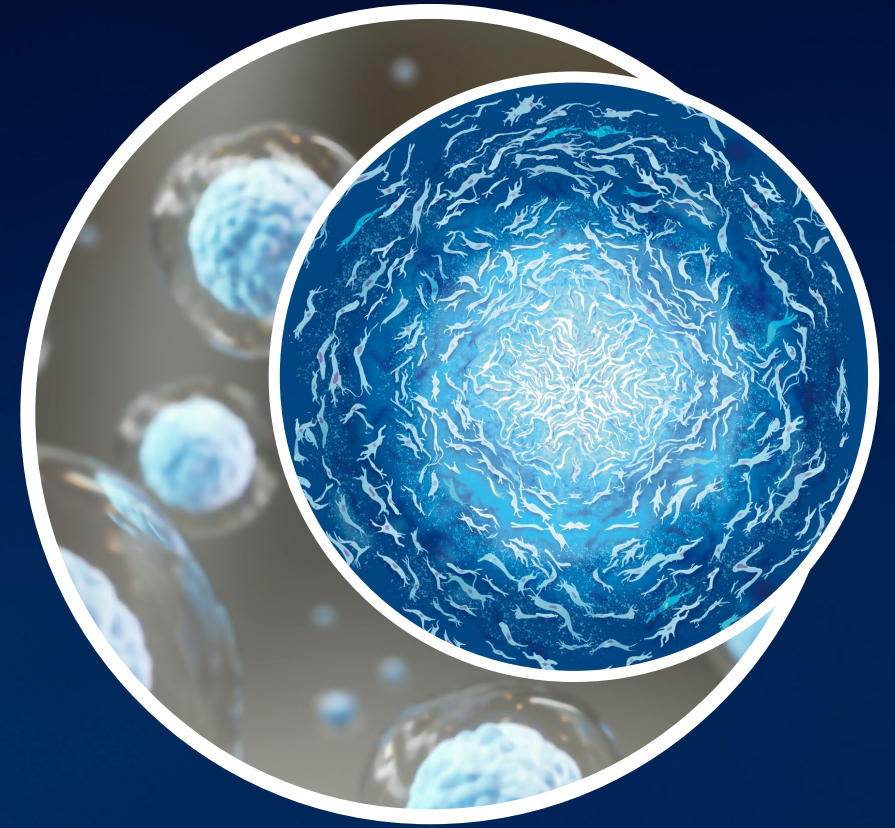
Cynata Therapeutics encourages all current investors to go paperless by registering their details with the designated registry service provider, Automic Group.



Pioneering more powerful MSCs

Advanced Therapies, London ExCel
18 March 2025

Mathias Kroll, Chief Business Officer



Important information

Summary information

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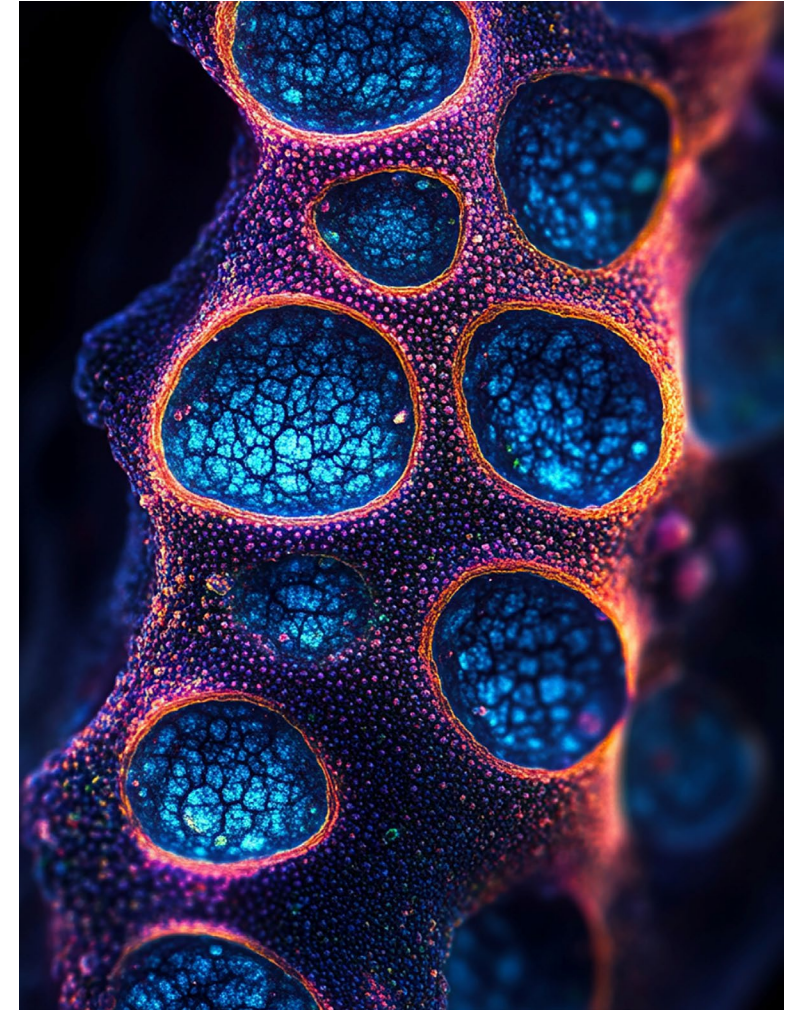
Introduction to MSCs

What are MSCs?

- **Mesenchymal stem cells**
(also known as **mesenchymal stromal cells** or **medicinal signalling cells**)
- These cells occur naturally in **small numbers** in the human body
- Key MSC properties¹:
 - **Immunomodulatory** effects – they help balance the immune system
 - **Anti-inflammatory** effects
 - Promote **tissue repair** and **regeneration**

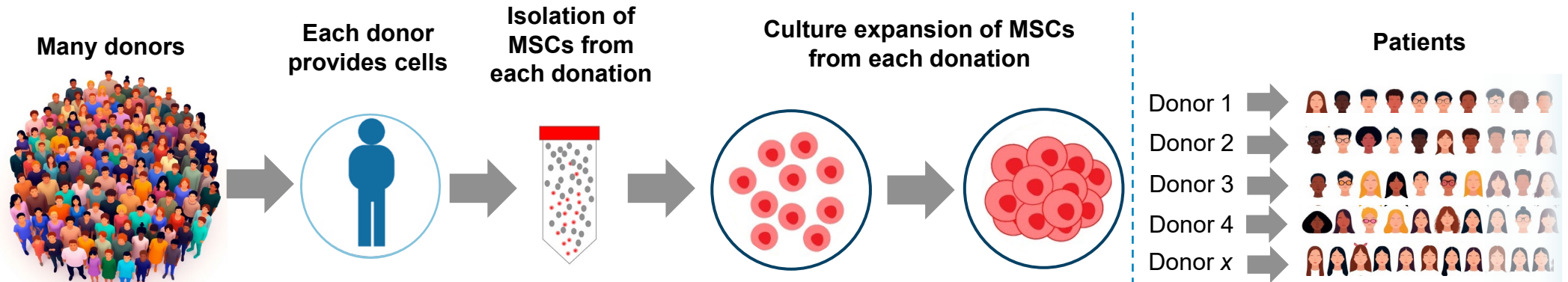
MSC-based therapy:

- Involves administration of much **larger numbers** of MSCs than exist within the body naturally, to treat/prevent disease
- First investigated in 2004, in a 9-year old boy with graft versus host disease²
- Since then, more than 1,700 clinical trials have been initiated, to investigate MSC therapy for many different diseases³



Conventional MSC manufacturing process

Standard Process¹



New donors must be identified on regular basis; donors must consent to **surgical extraction**

MSCs must be **isolated** from **mixture of cells** from **each** donation – producing only **small number** of MSCs per donation

Extensive culture expansion required (growing cells) – **large number** of MSCs required

Different batches of MSCs come from **different donors**

Major Challenges

Different donors
=
Variable starting material
=
Inconsistent product

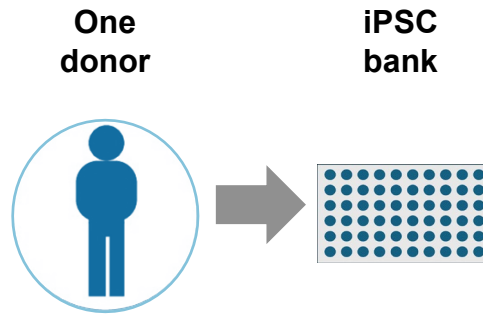
Small number of MSCs retrieved per donation
=
Extensive MSC culture expansion required

Extensive MSC culture expansion
=
Functional changes
=
Loss of potency

MSCs from **different donors** are administered to **different patients**
=
Inconsistent results

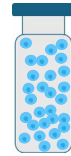
The solution: the Cymerus™ process

Cymerus™ Process

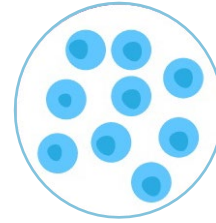


Blood donation from a **single donor** was used to produce a high-quality **iPSC¹ bank**

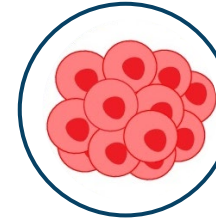
Vial of iPSCs from bank



iPSC expansion and differentiation

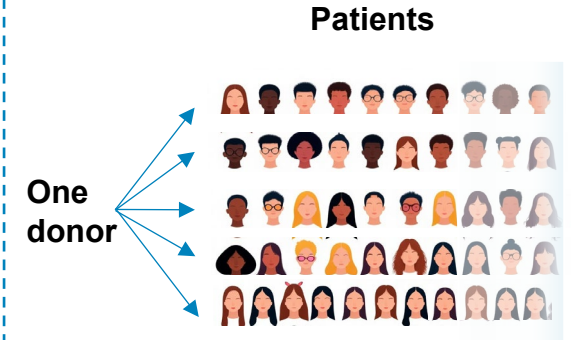


Formation of MSCs



Cells from **same** iPSC bank are used to make **every batch** of Cymerus™ MSCs

iPSCs are culture expanded, then **turned into MSCs** using **patented** Cymerus™ process



All batches of Cymerus™ MSCs come from the **same donor**

Major Benefits

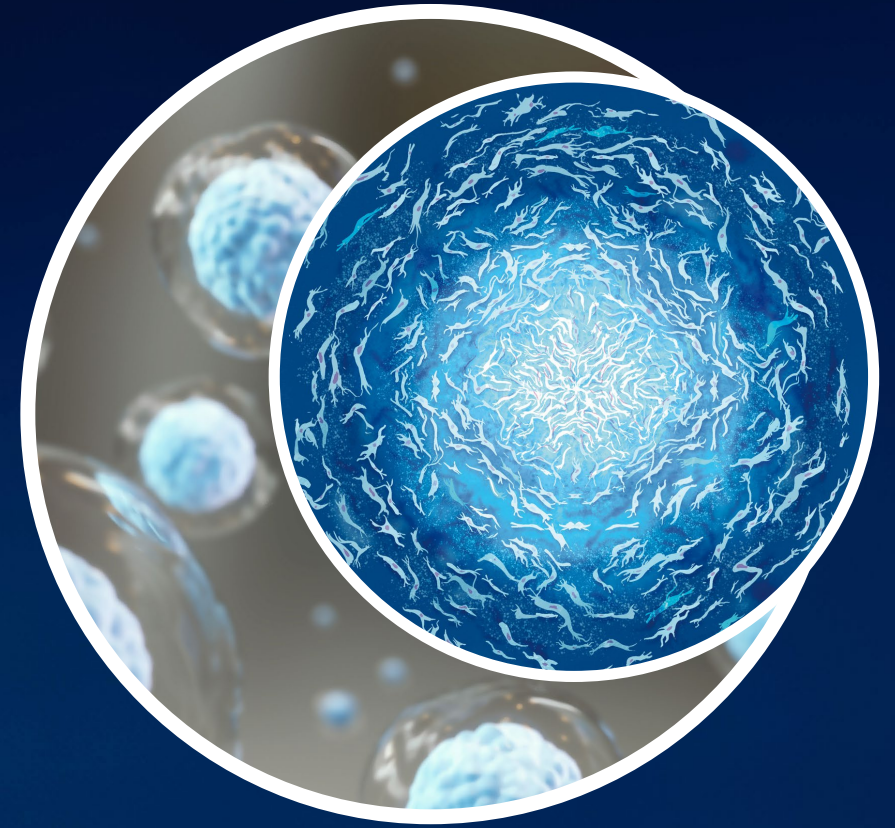
iPSCs have effectively **limitless** expansion capacity
=
Scalability

Starting material for **all** batches is **the same**
=
Consistent MSC product

Minimal MSC culture expansion required
=
MSCs **retain potency**

All patients receive MSCs from the **same donor**
=
Avoids variability

Acute Graft versus Host Disease (aGvHD)



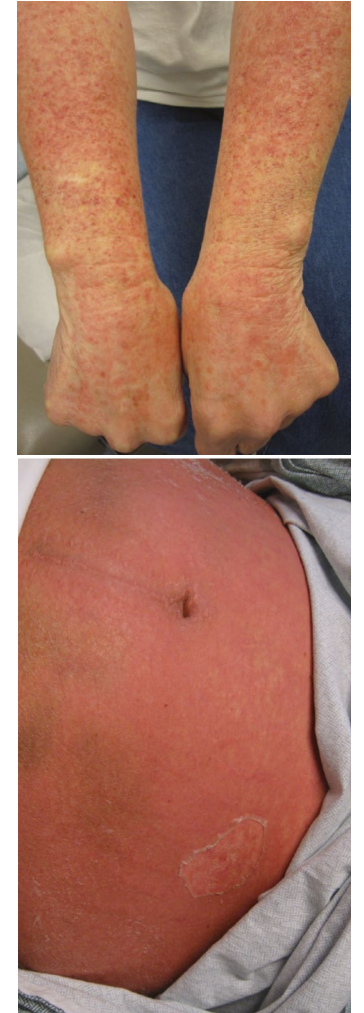
Bone marrow transplants & GvHD

Bone marrow transplant (also known as blood stem cell transplant)

- The procedure replaces blood stem cells in people whose bone marrow has been destroyed by large doses of chemotherapy or radiotherapy
- Bone marrow transplants can be curative for blood cancers (e.g. lymphoma & leukaemia)
- However, these procedures, if they use third party donors (“allogeneic”), can result in graft versus host disease (GvHD)

Graft versus host disease

- GvHD is where the transplanted cells recognise the recipient’s cells as “foreign”
- This results in the transplant (the “graft”) attacking the recipient’s (the “host’s”) tissues and organs
- First-line treatment for acute GvHD (aGvHD) is corticosteroids, but ~50% of patients develop what’s known as steroid-resistant acute GvHD (SR-aGvHD)
- In steroid-resistant patients, 2-year survival rate is less than 20%¹



Acute graft versus host disease (aGvHD)

>38,000
allogeneic
transplants*
per year¹

~35-50%
develop
aGvHD^{2,3}

Almost all
receive
steroids

<50% respond
to steroids⁴

Up to 9,500
steroid-
resistant cases
per year

2-year survival
rate in SR-
aGvHD: **<20%**⁵

* "Allogeneic" means cells come from someone else (a donor) rather than the recipient; "transplant" refers to blood stem cell transplants

Current treatments for steroid-resistant aGvHD (SR-aGvHD):

- **Ruxolitinib**

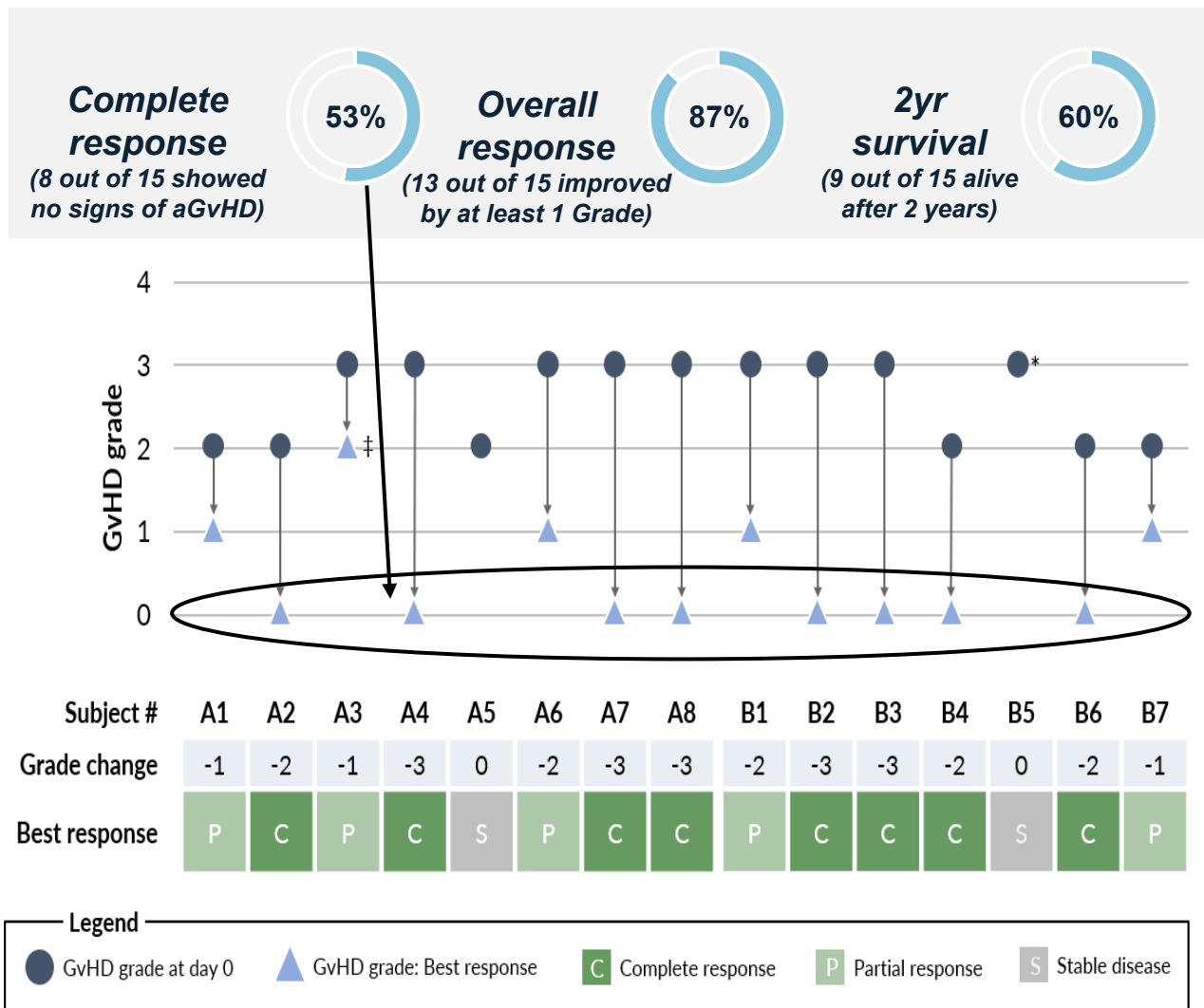
- Good initial response rates but no apparent increase in longer-term survival rates (18 months +) compared to controls⁶
- Serious/life threatening adverse reactions are common in patients who receive Ruxolitinib (e.g. infections, blood disorders)⁷
- Ruxolitinib is priced at ~US\$18k per month, and typically requires at least 6 months treatment for GvHD (i.e. >US\$100k per patient), and has forecast sales of US\$4.5b in 2024 across all indications⁸

- **Other investigational agents**

- Sometimes referred to as "Best Available Therapy (BAT)" in clinical trials
- Most have shown limited efficacy and/or poor safety profiles

Safer and more effective treatments are desperately needed for aGvHD

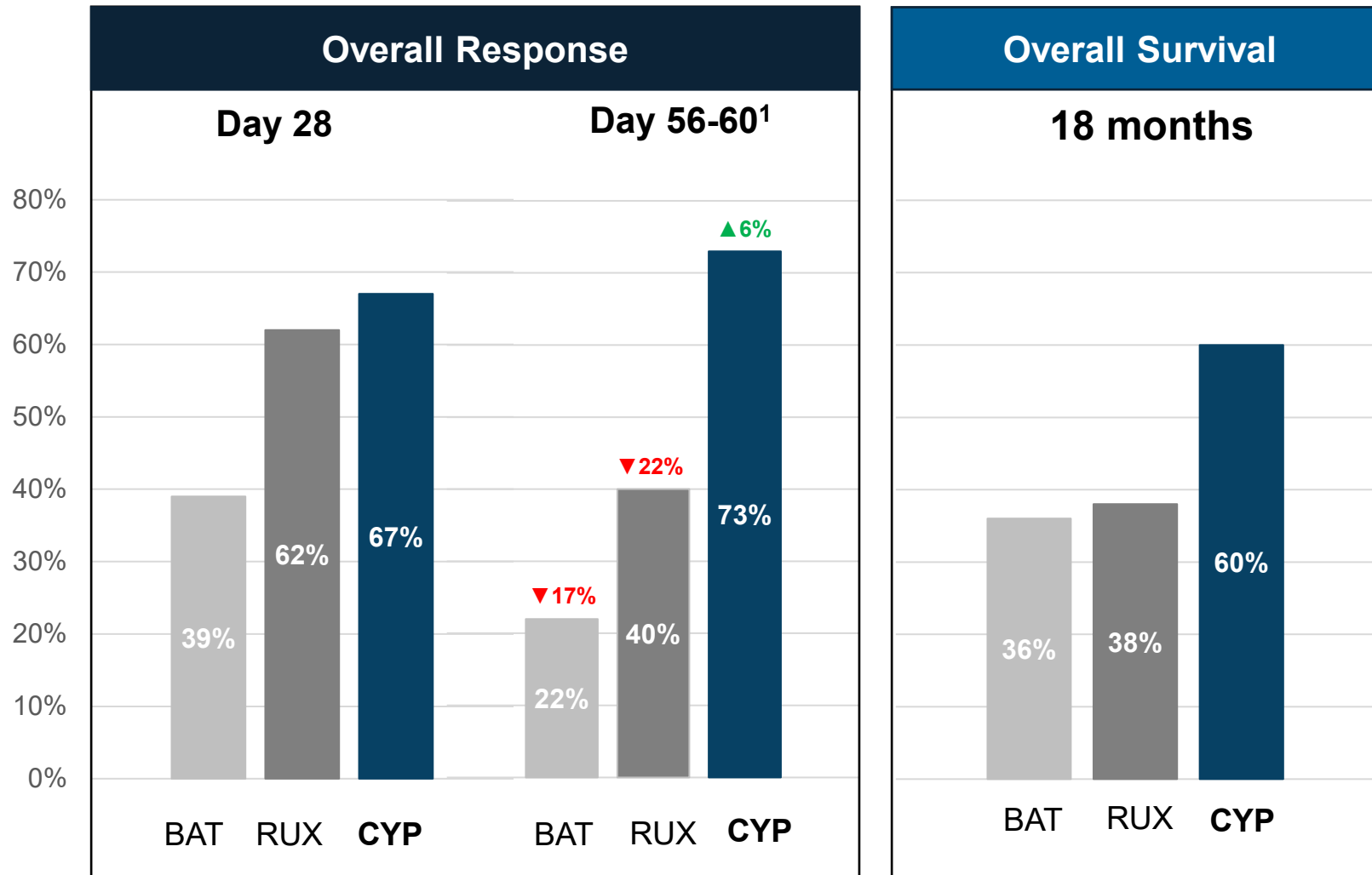
SR-aGvHD | Phase 1 clinical trial – results



- ✓ Outstanding response rates and overall survival
- ✓ Sustained outcomes achieved up to 2 years after the first infusion
- ✓ Importantly: CYP-001 was shown to be safe and well tolerated
- ✓ No serious adverse events or other safety concerns related to CYP-001

Trial conducted in 15 patients with steroid-resistant aGvHD (SR-aGvHD)
Product: CYP-001 (Cymerus™ MSCs for intravenous infusion)

CYP-001 vs other treatments in SR-aGvHD



Overall Response

- Between Day 28 and Day 56-60, the Overall Response Rate (ORR) for both RUX and BAT **decreased** markedly, while the ORR for CYP-001 marginally **increased**

Overall Survival

- CYP also reported **60% survival at 24 months** (not shown on graph, as 18 months was the latest timepoint reported in RUX/BAT trial)

Safety

- No serious adverse events or safety concerns for CYP-001

CYP = CYP-001 in Phase 1 trial (NCT02923375). **Rux** = ruxolitinib in Phase 3 trial (NCT02913261) (ruxolitinib is now approved for SR-aGvHD). **BAT** = "best available therapy" control arm in ruxolitinib Phase 3 trial (NCT02913261)

Scientific and regulatory recognition

Scientific: Publications

- Cynata was published in two editions of the highly prestigious *Nature Medicine* journal following its Phase I trial results



Cynata featured on front-page of Nature Medicine

nature medicineLETTERS

<https://doi.org/10.1038/s41591-020-1050-x>
Nature Medicine **26**, 1720–1725 (2020)

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 Patel¹, James E. Griffin³, Maria H. Gilleece⁴, Rohini Radia⁵, David T. Yeung^{6,7}, Diana Drier⁸, Laurie S. Larson⁸, Gene I. Uenishi⁹, Derek Hei¹⁰, Kilian Kelly¹¹, Igor Slukvin⁹ and John E. J. Rasko^{12,13,14}

nature medicine*Nature Medicine* **30**, 1556–1558 (2024)

<https://doi.org/10.1038/s41591-024-02990-z>

Two-year safety outcomes of iPS cell-derived mesenchymal stromal cells in acute steroid-resistant graft-versus-host disease

Kilian Kelly¹, Adrian J. C. Bloor², James E. Griffin³, Rohini Radia⁴, David T. Yeung^{5,6} & John E. J. Rasko^{7,8,9}

Regulatory: Orphan Drug Designation

- CYP-001 has been granted Orphan Drug Designation by the US FDA for the treatment of GvHD



Benefits include:

- Tax credits for qualified clinical trials
- Exemption from user fees
- Potential seven years of market exclusivity after approval

aGvHD | Phase 2 clinical trial

Indication

High risk acute graft versus host disease (aGvHD)¹

Product

CYP-001 (Cymerus™ iPSC-derived MSCs for intravenous infusion)

Study Design

- Randomised, double-blind, placebo-controlled trial
- ~60 adults (steroids + CYP-001 vs steroids + placebo)
- Primary objective is to assess efficacy of CYP-001 based on Overall Response Rate at Day 28

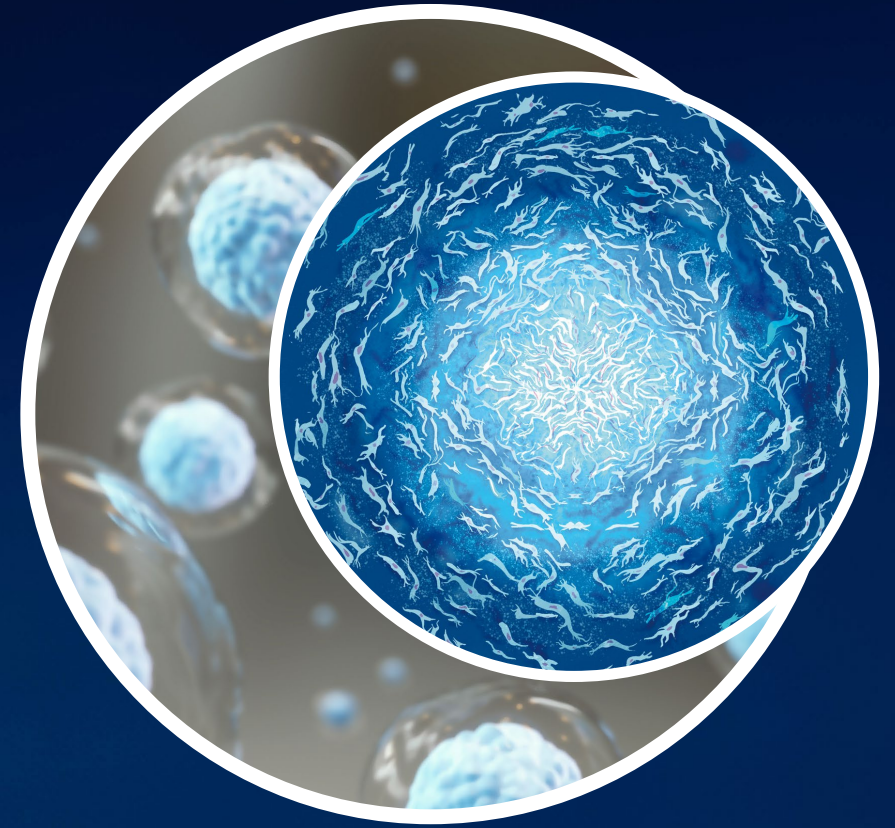
Study Conduct

- Conducted under IND from US FDA
- Clinical sites in USA, Europe and Australia
- First patient enrolled in March 2024; enrolment >40% complete²
- Aiming to complete patient enrolment in H1 2025

Results

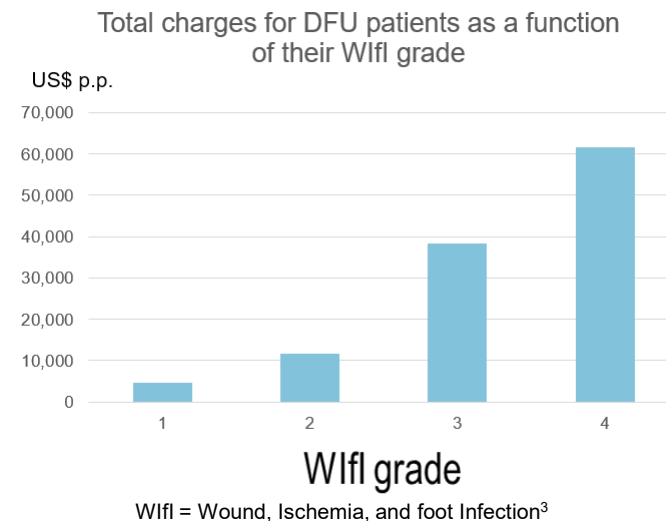
Results anticipated in H2 2025 (primary evaluation)

CYP-006TK for Diabetic Foot Ulcers



Diabetic foot ulcers (DFU)

- Open sore or wound that develops in patients with diabetes
- Very difficult to heal, which can lead to serious complications such as serious infection
- 20% of patients who develop DFU will require an amputation¹
- Multi-disciplinary team can be required to treat: GP, endocrinologist, podiatrist, wound care nurse, vascular surgeon and infectious disease specialist
- Cost to treat DFU in the US can exceed US\$60,000 per patient (depending on severity)²
- Annual costs to US public and private payers estimated to be US\$9 – 13 billion per year²



Diabetes is the **fastest growing** public health concern worldwide⁴

~38 million Americans have diabetes⁵

Up to 34% of those with diabetes will develop a foot ulcer¹

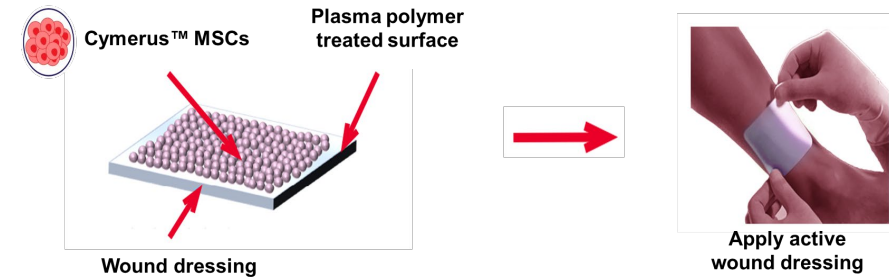
20% of patients with DFU will require **amputation** of the foot or limb¹

150,000+ amputations **per year** in the US due to **DFU**⁶

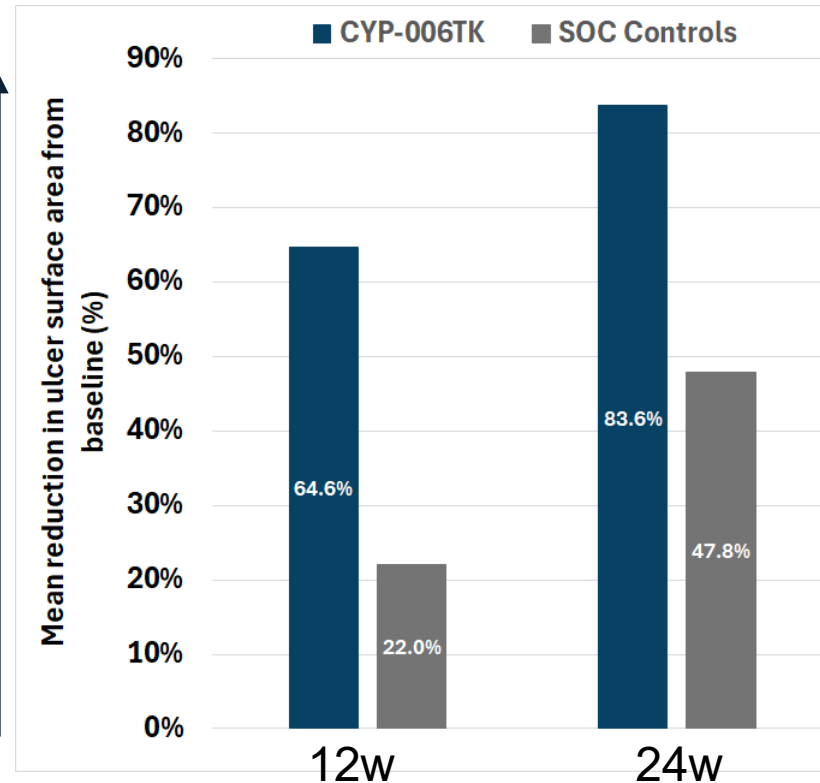
Estimated costs to US public and private payers **US\$9–13 billion** per year²

Positive clinical results in DFU phase 1

- Indication: Non-healing diabetic foot ulcers (DFU)
- Investigational product: CYP-006TK (novel silicone dressing seeded with Cymerus™ iPSC-derived MSCs)
- Randomised controlled trial in 30 adults receiving either standard of care (SOC) or CYP-006TK for 4 weeks, followed by SOC
- Primary objective was safety; efficacy measures included wound healing, pain and quality of life



Reduction in wound size
(Improvement)



- Wound surface reduction was substantially greater in treatment group than in standard of care group at both 12 and 24 weeks
- The treatment effect was even greater in large wounds measuring $>200 \text{ mm}^2$ at baseline
- Also consistent with an even larger effect size in larger wounds, mean absolute wound surface area reduced dramatically in treatment group but increased in standard of care group

For further information:
<https://clinicaltrials.gov/study/NCT05165628>

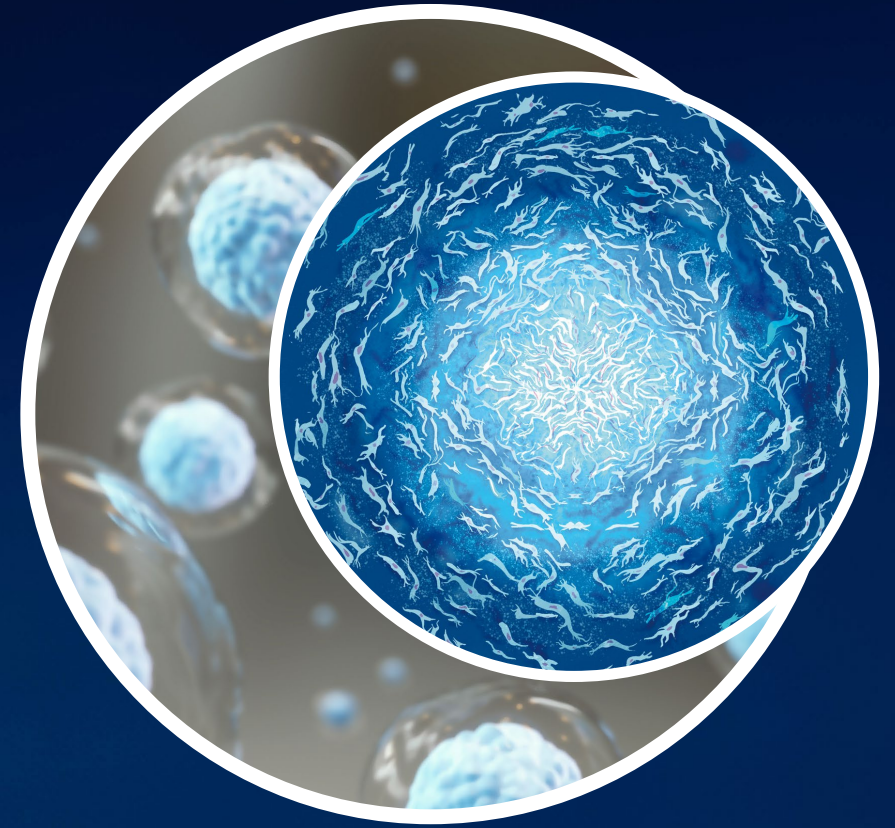
Safety and tolerability

Primary Objective

Phase 1 clinical trial of CYP-006TK in DFU **successfully achieved** its primary objective:

- safe and well-tolerated
- no participants withdrew from the trial due to adverse events
- no suspected serious adverse reactions were reported

Leveraging the unique
potential of Cymerus MSCs



OA | Phase 3 clinical trial

Indication

Osteoarthritis (OA) of the knee (Kellgren-Lawrence Grade 2-3)

Product

CYP-004 (Cymerus™ iPSC-derived MSCs for intra-articular injection)

Study Design

- Randomised, double-blind placebo-controlled trial in ~320 adults¹
- Each participant receives 3 injections over 12 months; follow-up of 24 months from first dose
- Co-primary endpoints are reduction of knee symptoms and measure of cartilage loss

Study Conduct

- Trial conducted by University of Sydney, funded by Australian Government NHMRC grant, while Cynata retains commercial rights
- Clinical centres in Australia (Sydney and Hobart)
- Patient enrolment complete (November 2023)
- Last patient last visit expected ~November 2025

Results

- Results anticipated in H1 2026

Kidney transplant | Phase 1/2 clinical trial

Indication

Prevention of kidney transplant rejection

Product

CYP-001 (Cymerus™ iPSC-derived MSCs for intravenous infusion)

Study Design

- ~16 patients to receive CYP-001 after kidney transplantation: cohort 1 (n=3); cohort 2 (n=3); cohort 3 (n=10)
- Trial will evaluate safety (all cohorts) and efficacy of MSCs in facilitating reduction of calcineurin inhibitors (anti-rejection medication; Cohort 3)

Study Conduct

- Trial conducted and funded by Leiden University Medical Center (LUMC), Netherlands, while Cynata retains commercial rights
- Patient enrolment commenced in Q4 2024, with first patient treatment completed in Dec 2024

Results

Outcome of Cohort 1 anticipated in H1 2025

Research partnerships

PLATFORM POTENTIAL OF CYNATA

Large body of positive preclinical data generated via R&D partnerships:

- GvHD
- Diabetic wounds
- Critical limb ischaemia
- Organ transplant rejection
- Osteoarthritis
- Respiratory disorders (including asthma, pulmonary fibrosis, acute respiratory distress syndrome)
- Sepsis
- Cardiovascular disorders (including coronary artery disease, myocardial infarction)
- Cytokine release syndrome
- Glioblastoma

Several of these studies have been published in peer-reviewed journals – see cynata.com/science_publications

Studies conducted in partnership with leading research groups worldwide



MONASH University



THE UNIVERSITY
of
WISCONSIN
MADISON



THE UNIVERSITY OF
SYDNEY



UNSW
SYDNEY



RCSI



University of
Massachusetts
Amherst



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Comparison of MSCs from different sources

npj | regenerative medicine

Published in partnership with the Australian Regenerative Medicine Institute

Article



<https://doi.org/10.1038/s41536-024-00382-y>

Proteomic profiling of iPSC and tissue-derived MSC secretomes reveal a global signature of inflammatory licensing

Margeaux Hodgson-Garms^{1,2}✉, Matthew J. Moore¹, Mikael M. Martino^{3,4}, Kilian Kelly² & Jessica E. Frith^{1,3}✉

Background






- Effects of MSCs depend largely on “secretome” – proteins and other molecules released by cells
- This study assessed similarities/differences between secretomes of MSCs derived from either iPSCs or a donor tissue source (bone marrow, adipose tissue or umbilical cord), under different conditions
- Important to assess MSCs under different conditions because MSCs respond to their environment, which changes their effects
- Notably, MSCs are often exposed to inflammatory conditions after administration to patients

Key Highlights

- Substantial differences between MSCs from different sources
- Substantially less variability between batches of iPSC-derived MSCs than between batches of MSCs derived from donor tissue, especially bone marrow
- iPSC-derived MSCs released many more unique proteins than donor tissue-derived MSCs: indicates iPSC-derived MSCs could have additional effects compared to donor tissue-derived MSCs
- iPSC-derived and umbilical cord-derived MSCs displayed features consistent with “younger” cells, suggesting sustained ability to avoid ageing (“senescence”)
- Strong regenerative potential of iPSC-derived and umbilical cord-derived MSCs (but not bone marrow or adipose tissue-derived MSCs) maintained under both resting and inflammatory conditions
- *In vitro* studies of MSC secretomes found:
 - iPSC-derived and umbilical cord-derived MSCs resulted in significantly faster wound closure than bone marrow or adipose tissue-derived MSCs
 - iPSC-derived MSCs showed greater immunomodulatory effects than MSCs derived from any donor tissue source

Commercial Attractiveness



 Proprietary Platform Technology	<ul style="list-style-type: none">• Ability to produce MSCs consistently and at scale allows for MSCs to be used in multiple indications = Platform Technology appeal
 Platform Technology	<ul style="list-style-type: none">• Platform Technology allows CYP to target multiple multi-billion dollar indications
 Multiple Multi-Billion Dollar Indications	<ul style="list-style-type: none">• Four clinical indications currently targeted have total combined market opportunities of ~US\$27.7 billion• All indications capable of being out-licensed / partnered
 Commercial interest	<ul style="list-style-type: none">• In 2019 (post Phase I results in GvHD), the Company received a non-binding indicative offer to acquire all shares in Cynata for \$2 per share (The parties subsequently withdrew from discussions as a result of being unable to reach agreement on satisfactory terms)• Cynata anticipates significant commercial interest following any positive read-outs• Three further read-outs expected by H1 CY2026
 Seeking Partnership Opportunities	<ul style="list-style-type: none">• Following the successful DFU results, Cynata will now continue discussions with potential commercial partners and engage with regulatory agencies (including FDA) as part of its strategy for further clinical development



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