ASX ANNOUNCEMENT **5 September 2024**

Investor Webinar

Melbourne, Australia; 5 September 2024: Cynata Therapeutics Limited (ASX: "**CYP", "Cynata",** or the **"Company"**), a clinical-stage biotechnology company specialising in cell therapeutics, reminds shareholders that CEO and Managing Director, Dr Kilian Kelly, will host an investor webinar today, Thursday 5 September at 9:30am AEST.

Attendees are required to register in advance for the webinar – using the following link: https://us02web.zoom.us/webinar/register/WN_6EonNDzjQKG8-TXKkBc0Dg

Upon registration, attendees will receive a link to access the webinar.

A copy of the presentation to be delivered during the webinar is attached to this announcement.

-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'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. A Phase 2 clinical trial in GvHD under a cleared US FDA IND, as well as trials of Cymerus products in osteoarthritis (Phase 3 – patient enrolment completed) and diabetic foot ulcers (DFU – patient enrolment completed) are currently ongoing, while a trial in renal transplant is expected to commence in the near future. In addition, Cynata has also demonstrated utility of its Cymerus technology in preclinical models of numerous 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.

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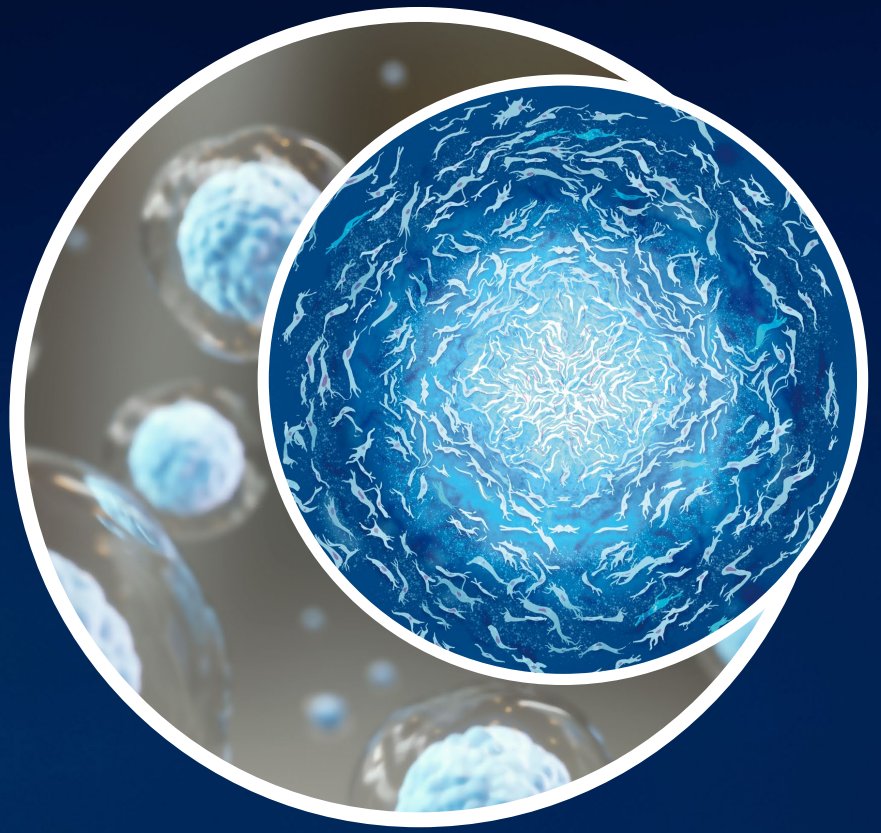

A Clinical Stage Next Generation Stem Cell Therapeutics Company

Investor Webinar

5 September 2024

Important information

Summary information

This Presentation contains summary information about Cynata Therapeutics Limited and its subsidiaries (**CYP**, or **Cynata**) which is current as at 5 September 2024. This Presentation should be read in conjunction with CYP's other periodic and continuous disclosure information lodged with the Australian Securities Exchange (**ASX**), which are available at www.asx.com.au.

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Company highlights

Revolutionary Cymerus™ manufacturing platform

- **Mesenchymal stem cells** (**MSCs**)[1] have shown potential to treat a wide range of illnesses[2]
- However, standard manufacture requires ongoing supply of donors → challenges with consistency, potency and scale
- The **induced pluripotent stem cell** (**iPSC**)-based Cymerus™ platform overcomes this major obstacle by enabling production of an **effectively limitless** number of **consistent** MSC doses **from a single blood donation**

Cynata is the leader of the burgeoning iPSC field

- **First completed iPSC clinical trial** worldwide
- US FDA **Orphan Drug Designation**[3] and cleared **IND**[4]
- Compelling clinical data generated in **acute graft versus host disease (aGvHD)**[5] and **diabetic foot ulcer (DFU)**[6]
- **Four active clinical programs** (including ongoing **Phase 2** & **Phase 3** trials)
- **Three randomised controlled clinical trial readouts** upcoming between **late 2024** and **early 2026**

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1. Also known as mesenchymal stromal cells
2. Zhou J, Shi Y. Cell Mol Immunol 20, 555–557 (2023)
3. CYP-001 granted Orphan Drug Designation for treatment of aGvHD – qualifies Cynata for incentives including extended marketing exclusivity, tax credits and fee waivers
4. IND = Investigational New Drug application – the clearance required from FDA to conduct clinical trials
5. Completed Phase 1 clinical trial in steroid-resistant aGvHD;
6. Initial data in first 16 patients (n=8 per group) after 10 weeks; final results in all 30 patients expected in Q4 2024/Q1 2025

FY 2024 – a year of progress

Multiple clinical trials advanced

- Phase 3 osteoarthritis trial – patient enrolment completed in November 2023
- Global Phase 2 aGvHD trial – first patient enrolled in March 2024
- Phase 1 DFU trial – patient enrolment completed in April 2024
- New kidney transplant trial approved and ready to commence

Further encouraging clinical efficacy data

- Promising initial data from ongoing DFU trial released in February 2024
- Additional data from Phase 1 GvHD trial published in *Nature Medicine* in May 2024

Senior management team strengthened

- Dr Mathias Kroll commenced in new position of Chief Business Officer in April 2024: position created to drive next stage of commercial growth

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1. Initial data in first 16 patients (n=8 per group) after 10 weeks; final results in all 30 patients expected in late 2024/early 2025

Advanced and diverse clinical pipeline

	Indication	Trial phase	Upcoming catalysts*	Market opportunity
Cynata Sponsored	Acute Graft vs Host Disease (aGvHD) CYP-001 **FDA Orphan Designation**	**Phase 2 ongoing**	**Enrolment completion – Q4 2024** **Results – 2H 2025**	US$600m[1]
Cynata Sponsored	Diabetic Foot Ulcers (DFU) CYP-006TK	**Phase 1 ongoing** **(enrolment complete)**	**Results – Q4 2024/Q1 2025**	US$9.6bn[2]
Partnered	Osteoarthritis (OA) CYP-004 *(managed by USYD, funded by NHMRC)*	**Phase 3 ongoing** **(enrolment complete)**	**Results – 1H 2026**	US$11.6bn[3]
Partnered	Kidney Transplantation CYP-001 *(managed and funded by LUMC)*	**Phase 1/2 approved**	**Enrolment start – Q3 2024** **Cohort 1 results – Q1 2025**	US$5.9bn[4]

1. Global Graft versus Host Disease Market 2019-2029 (Reflects forecast market in 2026); 2. Zion Market Research, 2019 (represents global treatment market in 2025); 3. Persistence Market Research 2018 research report: "Osteoarthritis Treatment Market: Global Industry Analysis (2012-2016) and Forecast (2017-2025) (Reflect OA market by 2025); 4. Organ Transplant Immunosuppressant Drugs Market in 2026, Grand View Research, Inc.,2019

USYD = University of Sydney; NHMRC = National Health and Medical Research Council; LUMC = Leiden University Medical Center
* Timing of events is approximate, based on the Company's information as at the date of this presentation, and subject to change

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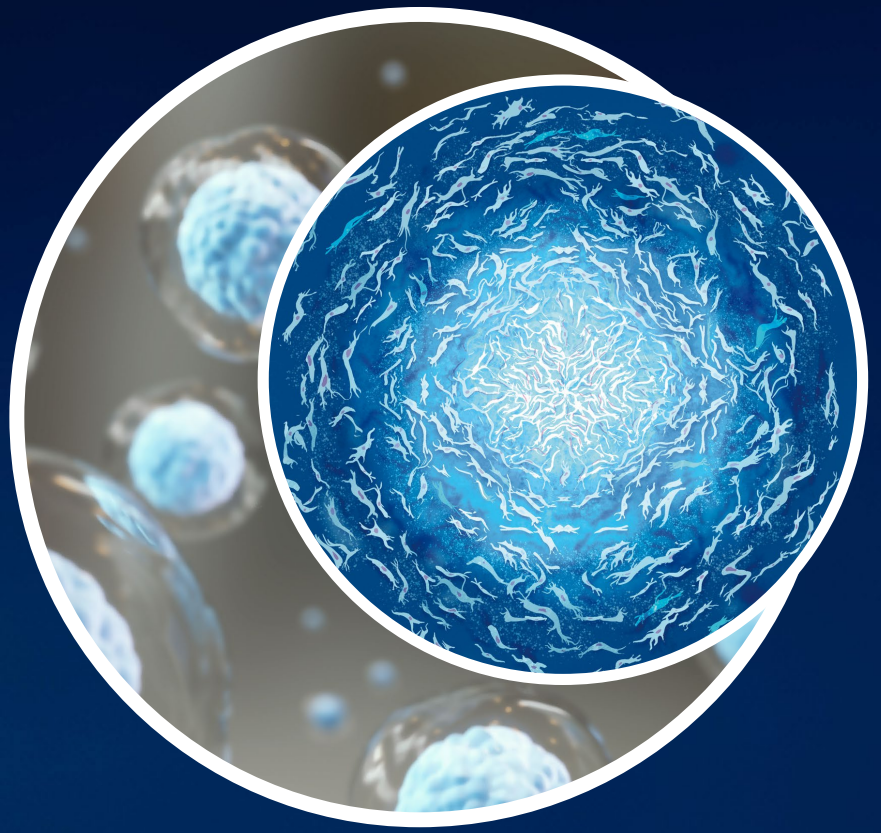
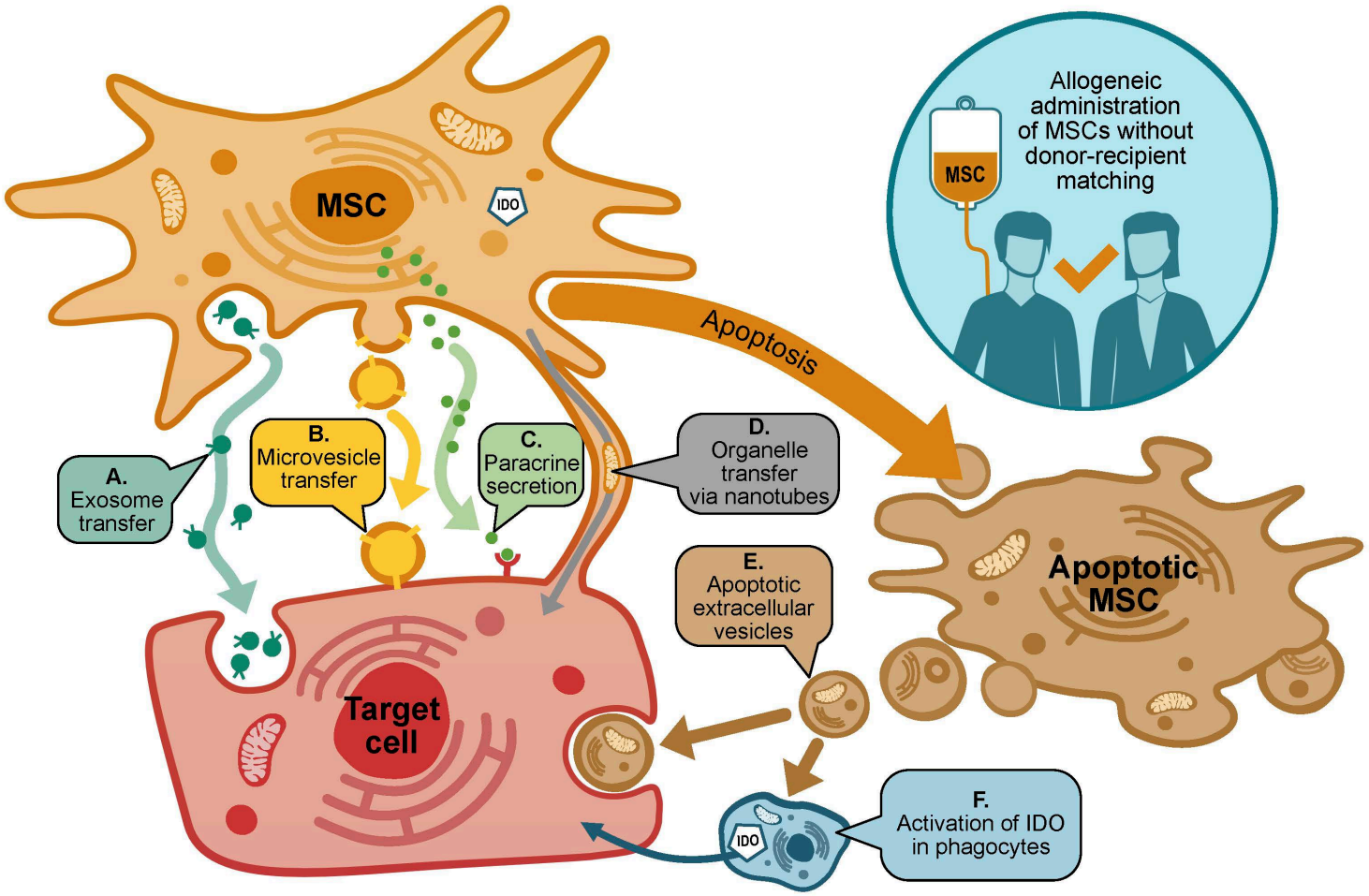
Revolutionary iPSC-based Cymerus™ Manufacturing Platform



Therapeutic potential of MSCs



Mesenchymal stem cells[1] (MSCs):

- Promote an **immunomodulatory** environment[2]
- The "sensor and switcher of the immune system"[3]
- Promote **tissue repair** and **regeneration**
- Can be used **without** matching donors to recipients
- Can be **engineered** to express other functional/therapeutic molecules
- However, with conventional manufacturing methods, there are consistency, potency and scalability challenges

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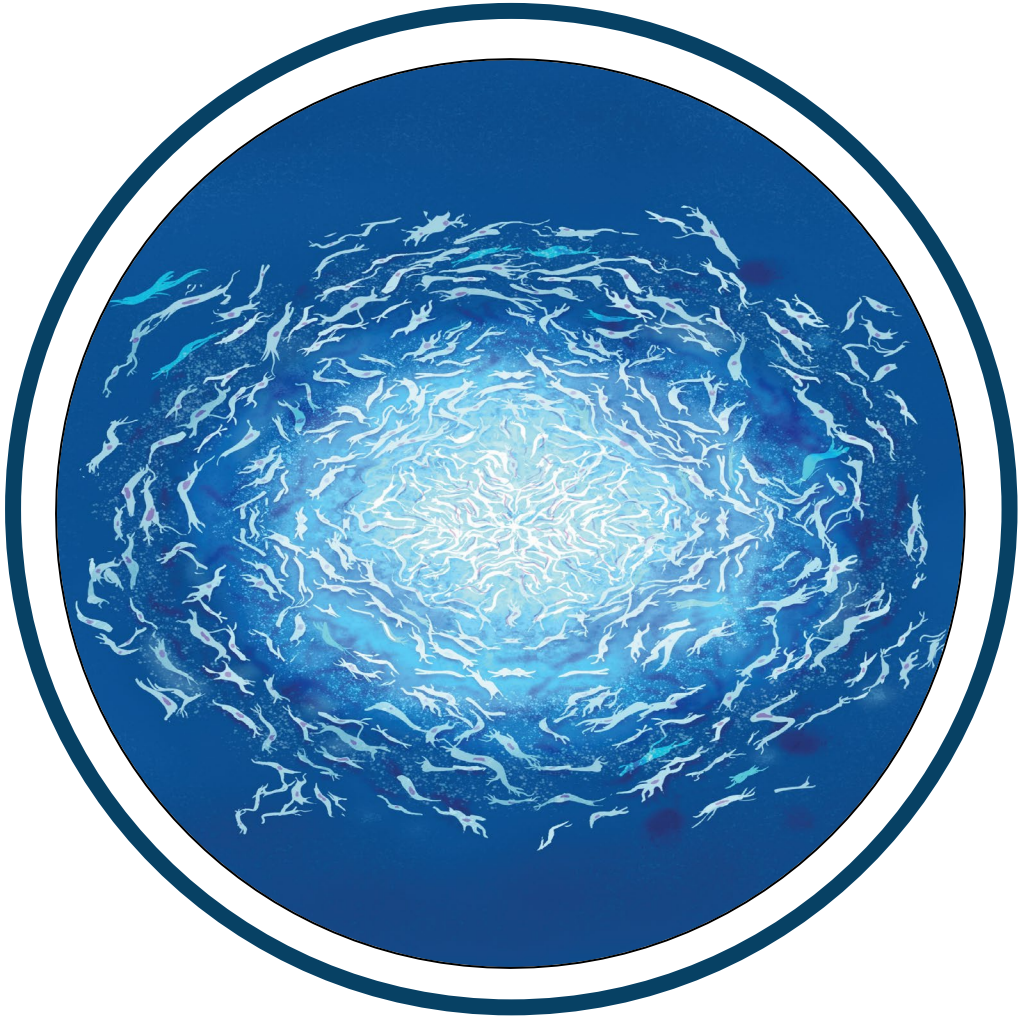
1. Also known as mesenchymal stromal cells
2. Kelly and Rasko, Front. Immunol. 12:761616 (2021)
3. Sarsenova et al, Front. Immunol.13:1010399 (2022)

Advantages of iPSC-based platform



Induced pluripotent stem cells (iPSCs):

- Mature **adult** cells **reprogrammed** to become **pluripotent**, which means:
  - Effectively **limitless** proliferation capacity
  - Potential to differentiate into any adult cell type (including MSCs)
- Similar properties to embryonic stem cells … but iPSCs are derived from **adult donors**, so they **avoid** ethical controversy associated with embryonic stem cells

→ iPSCs are **ideal** starting material for commercial production of cellular products

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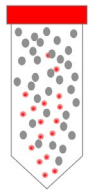
Conventional MSC process

Ongoing need for new donors

Substantial inter-donor **variability**

MSC isolation



Small number of MSCs per donation

Culture expansion

Extensive MSC culture expansion required

Major challenges:

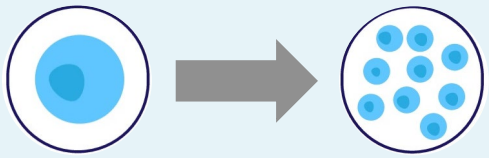
- MSCs undergo **functional changes** and **loss of potency** during extensive culture expansion
- Continuously finding and testing new donors is **logistically challenging**
- Inter-donor **variability** – **inconsistent** activity in MSCs from different donors

Cymerus™ iPSC-based process

One donor, one time

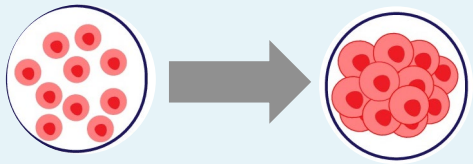
Avoids inter-donor variability

Reprogramming & iPSC expansion



Effectively **limitless** expansion potential

Differentiation into MSCs & culture expansion



Minimal MSC culture expansion

Robust patent protection

Advantages of **Cymerus™** platform:

- **Effectively limitless** iPSC expansion potential
- **Avoids** need for new donors
- **Avoids** inter-donor variability
- **Avoids** extensive MSC culture expansion
- High level of **potency**, **consistency** and **scalability**

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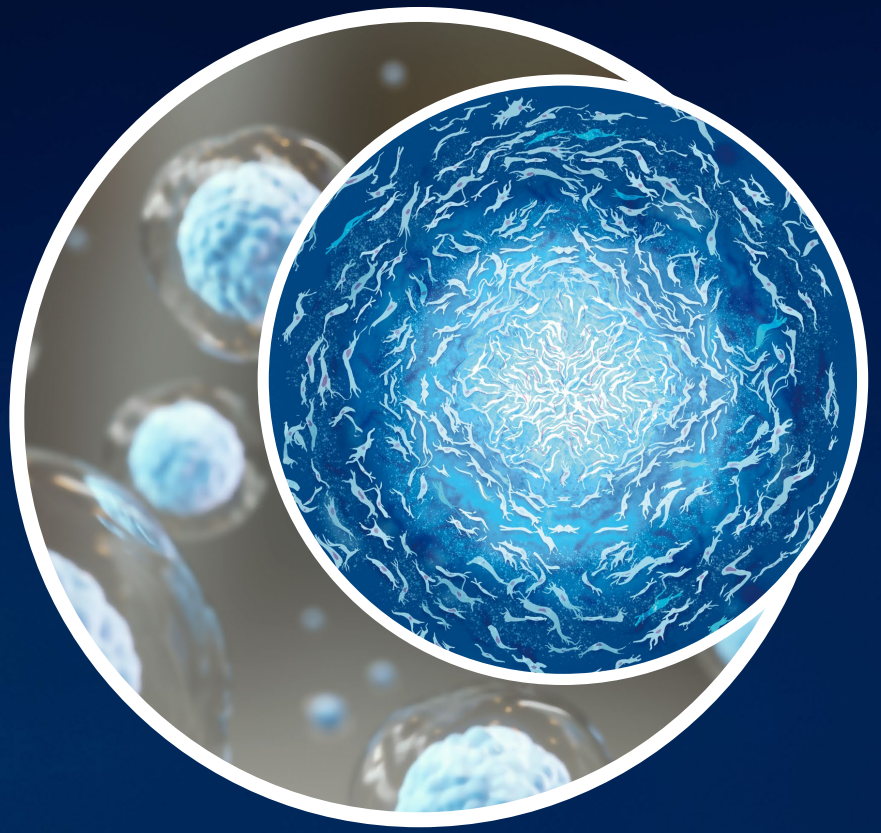
Partnering Strategy

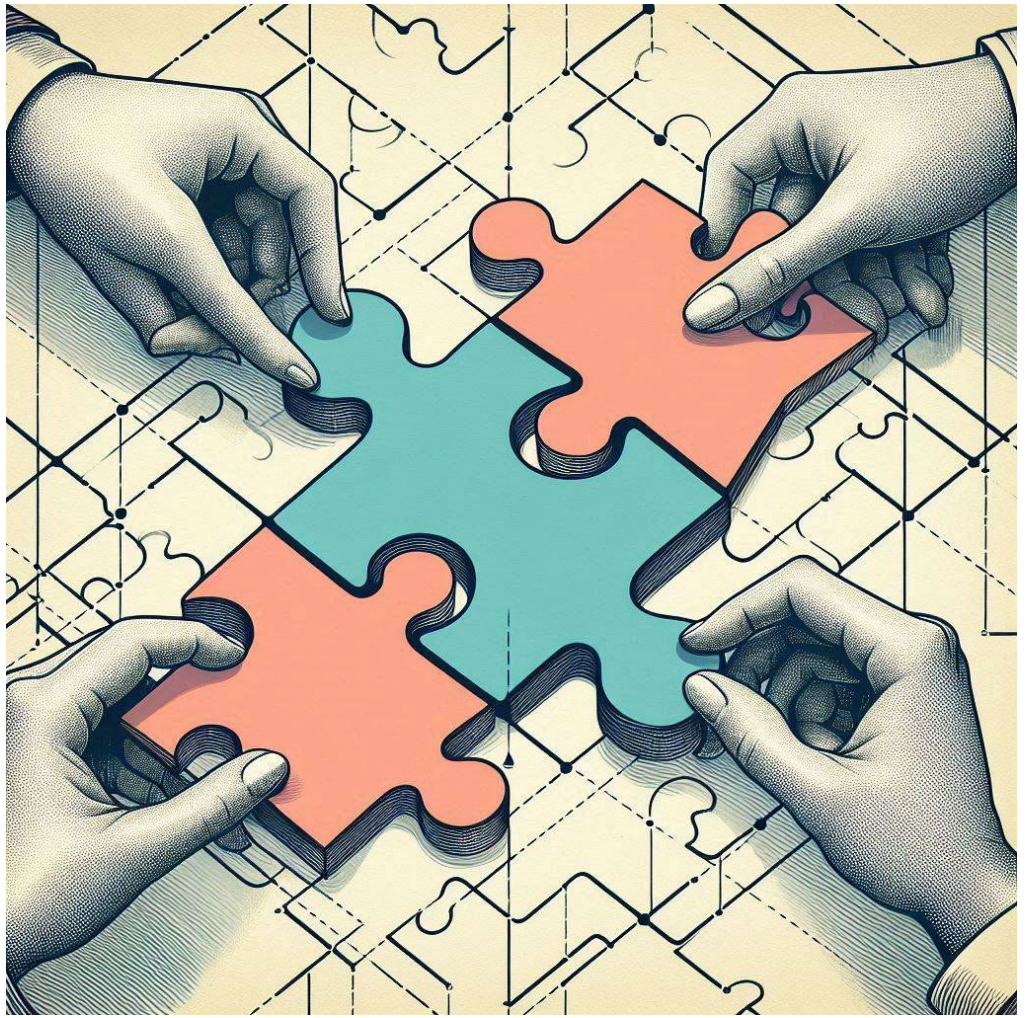


Commercial partnering

Commercial partnering potential underpinned by: (i) compelling clinical data; and (ii) scalable, commercial grade manufacturing platform

Several distinct products in development → potential for multiple partnerships

Platform also available to partners pursuing other indications and/or engineered MSC applications



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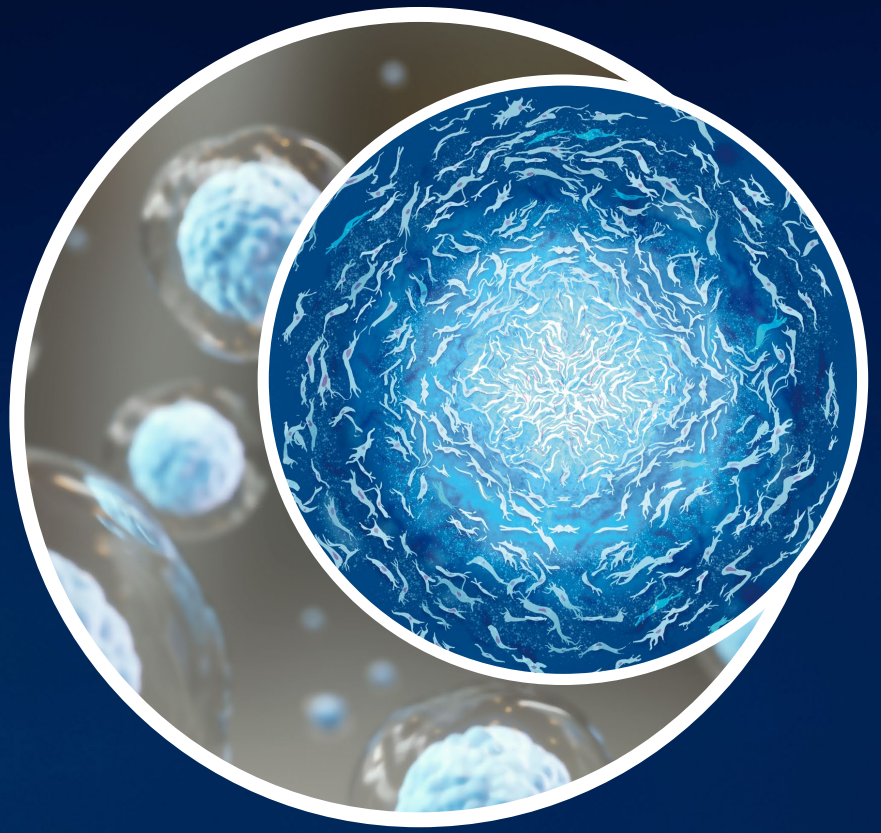
Industry connections

- We are enhancing our individual outreach to selected organisations, which will be accelerated by upcoming catalysts
- We attend leading conferences in our sector, to tell our story and open new discussions
- Following on from multiple events earlier this year (including Advanced Therapies, ISCT, BIO and bone marrow transplantation conferences), our six-month event outlook includes:

CELL GENE MEETING ON THE MESA	Alliance for Regenerative Medicine Phoenix, October 2024	Company presentation and partnering meetings
AusBiotech Australia's life sciences conference '24 | United through innovation	AusBiotech National Conference Melbourne, October/November 2024	Chairing panel discussion on iPSC opportunities
BIOTECH SHOWCASE™	JP Morgan BioWeek/Biotech Showcase San Francisco, January 2025	Company presentation and partnering meetings
advanced THERAPIES	Advanced Therapies Congress London, March 2025	Company presentation and partnering meetings

Compelling Clinical Data: CYP-001 for aGvHD



CYP-001: Two *Nature Medicine* publications

- CYP-001 has been granted **Orphan Drug Designation** by the US FDA for the treatment of GvHD
- Phase 1 trial of CYP-001 was the first completed clinical trial worldwide with **any iPSC-derived product**

nature medicine
LETTERS
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 Patel[1], James E. Griffin[3], Maria H. Gilleece[4], Rohini Radia[5], David T. Yeung[6,7], Diana Drier[8], Laurie S. Larson[8], Gene I. Uenishi[9], Derek Hei[10], Kilian Kelly[11], Igor Slukvin[9] 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 Kelly[1], Adrian J. C. Bloor[2], James E. Griffin[3], Rohini Radia[4], David T. Yeung[5,6] & John E. J. Rasko[7,8,9] ✉

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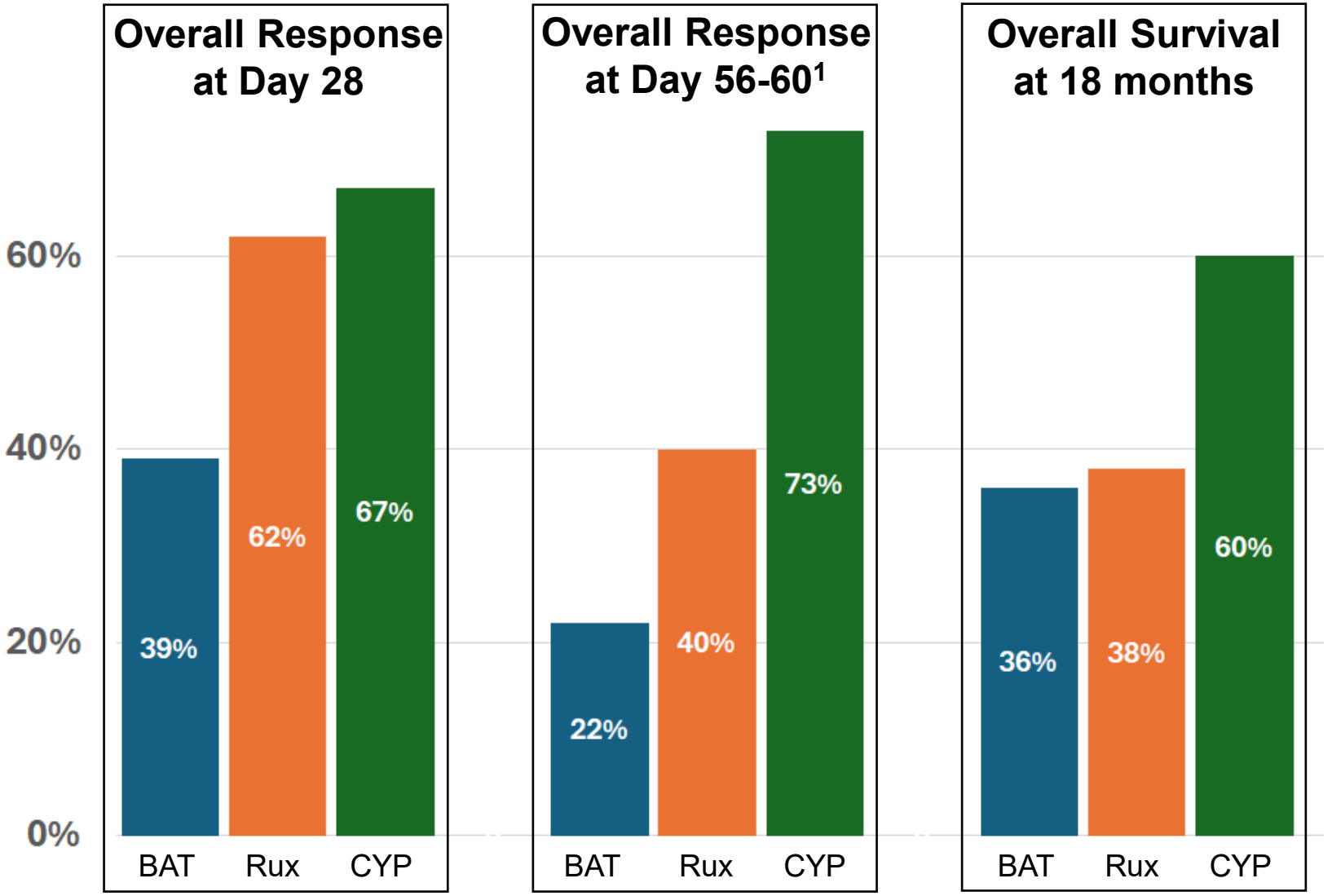
1. CYP-001 is Cynata's Cymerus iPSC-derived MSC product candidate for intravenous infusion

CYP-001 vs other treatments in SR-aGvHD



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)

- Overall response rate for CYP-001 **increased** between D28 and D60
- Overall response rates for BAT and Rux **declined** between D28 and D56
- Overall survival rate for CYP-001 was **60%** at **both 18 and 24 months**
- Overall survival rates for BAT and Rux were **36%** and **38%** at **18 months**, and **not evaluable at 24 months**
- No serious adverse events/safety concerns related to CYP-001 identified, but **potentially serious adverse reactions to ruxolitinib are common**

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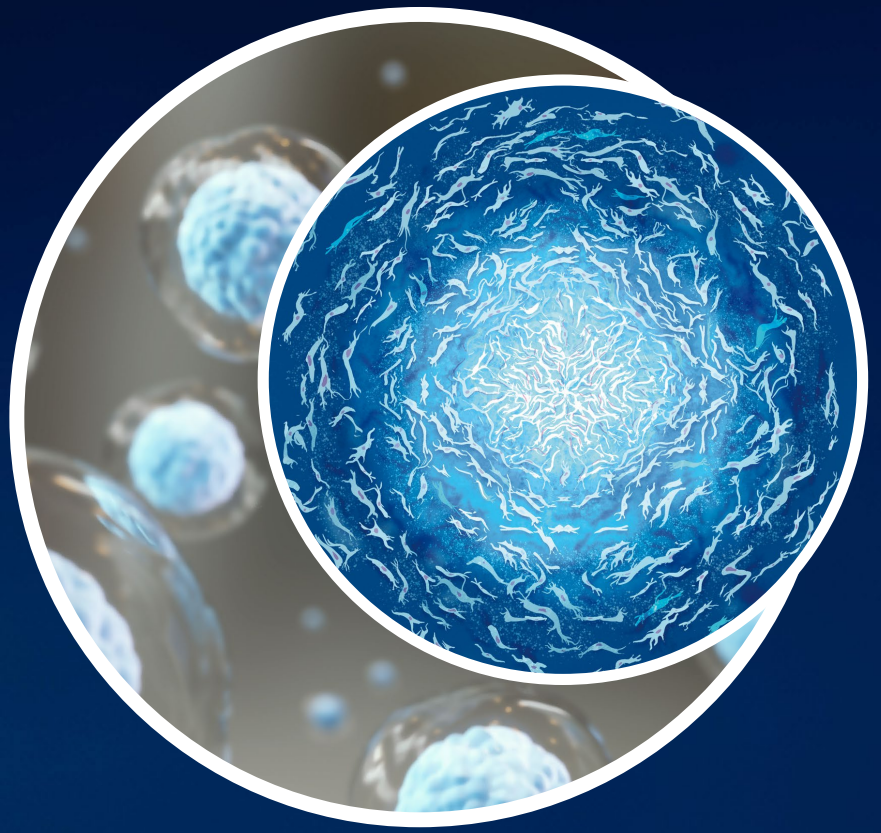
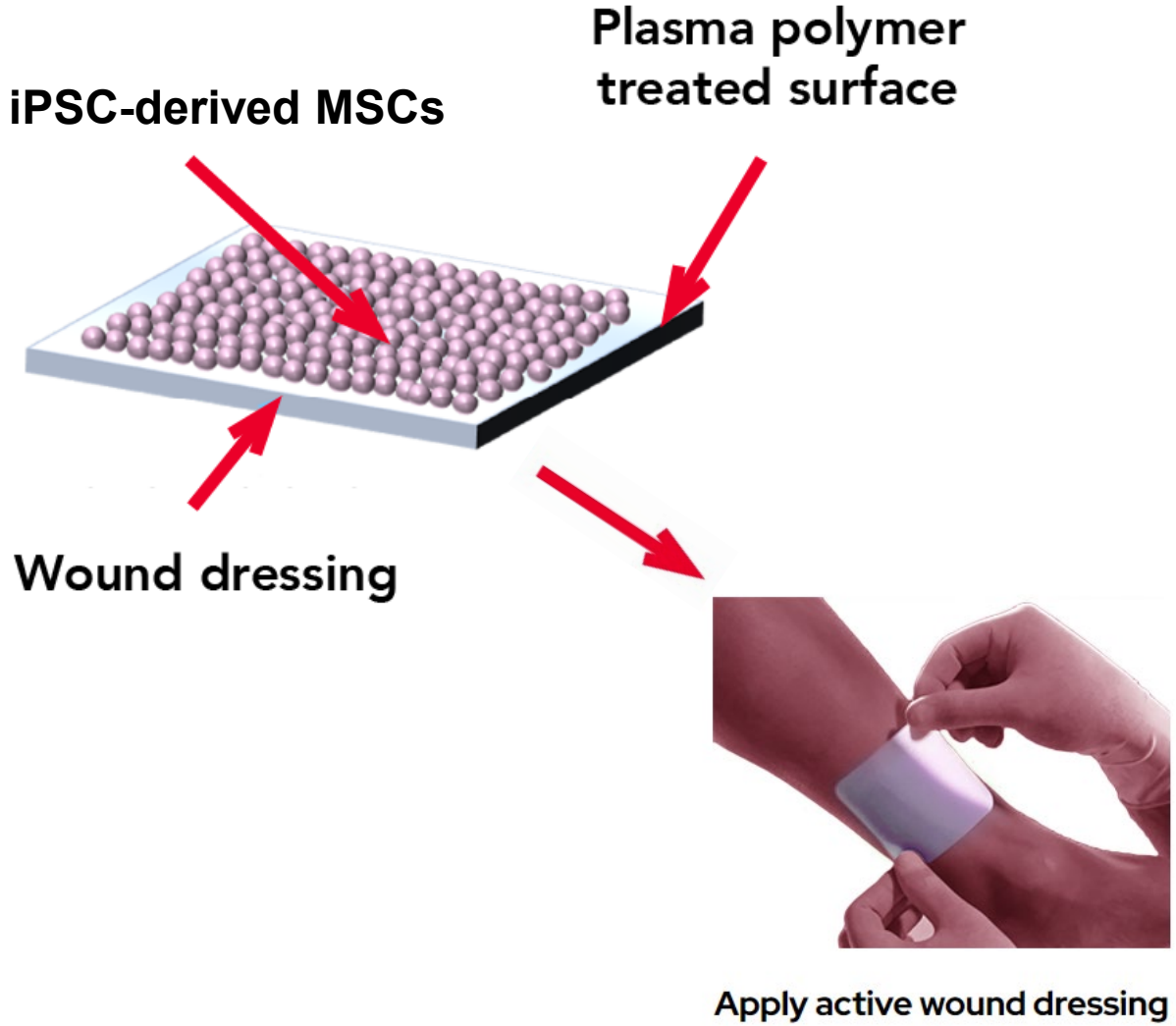
Note: comparisons are for illustrative purposes only; data taken from different clinical trials with different sample sizes (BAT: n=155; Rux: n=154; CYP-001: n=15). D28/D56 time points used for response rate comparison as D28/D56 were the only response rate time points reported in the BAT/Rux clinical trial (NCT02913261)
1. Overall Response at Day 56-60 refers to Day 56 response for BAT & Rux, and Day 60 response for CYP-001.

CYP-006TK for DFU



CYP-006TK – a novel topical MSC product

- CYP-006TK utilises a proprietary surface-coating, optimised for the delivery of MSCs directly to the wound bed
- Technology exclusively licenced to Cynata by Tekcyte Limited (agreement for Cynata to acquire this IP outright announced 1 July 2024)



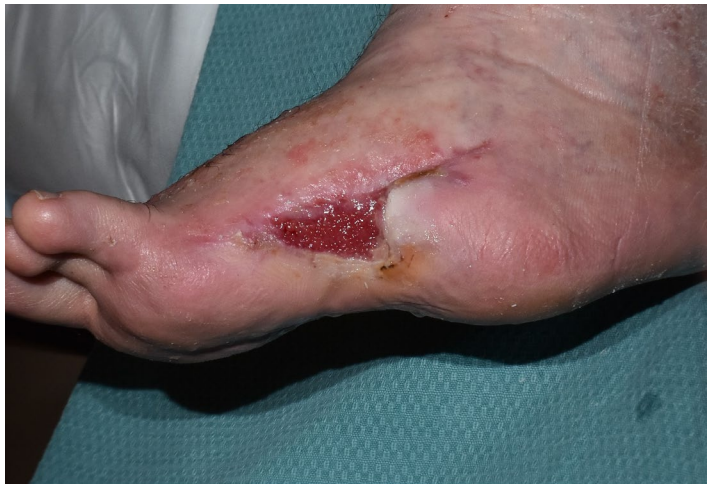
DFU | Phase 1 clinical trial – initial data

Product: CYP-006TK (topical Cymerus™ MSC wound dressing)

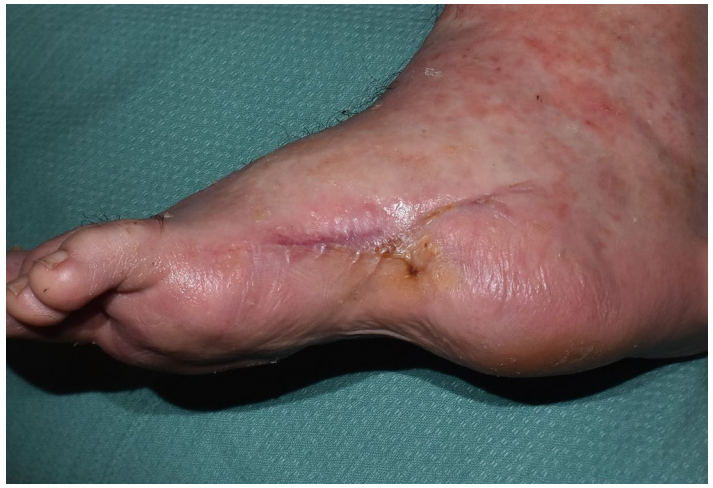
- Ongoing trial in non-healing diabetic foot ulcer (DFU)
- Patients randomised to receive standard of care (SoC) or CYP-006TK for 4 weeks, followed by SoC
- In the first 16 patients enrolled in the trial (8 per group), after 10 weeks' follow-up, the median reduction in wound surface area was:
  - **87.6%** in the active CYP-006TK group
  - compared to **51.1%** in SoC group

Example of ulcer healing in patient treated with CYP-006TK:

Day 0



Day 28



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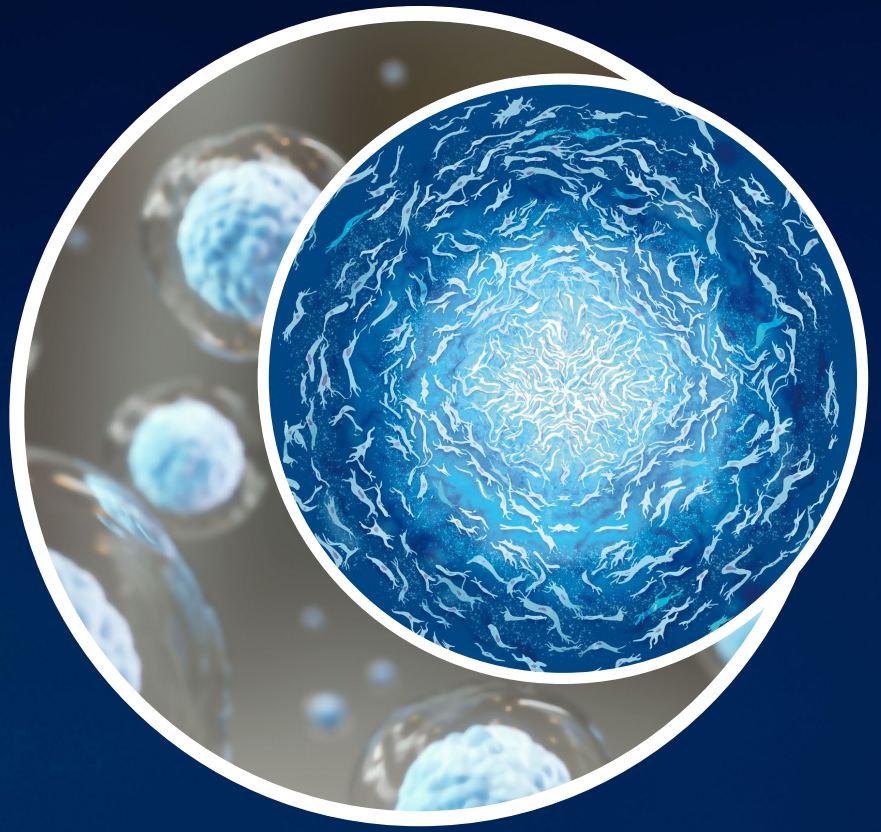
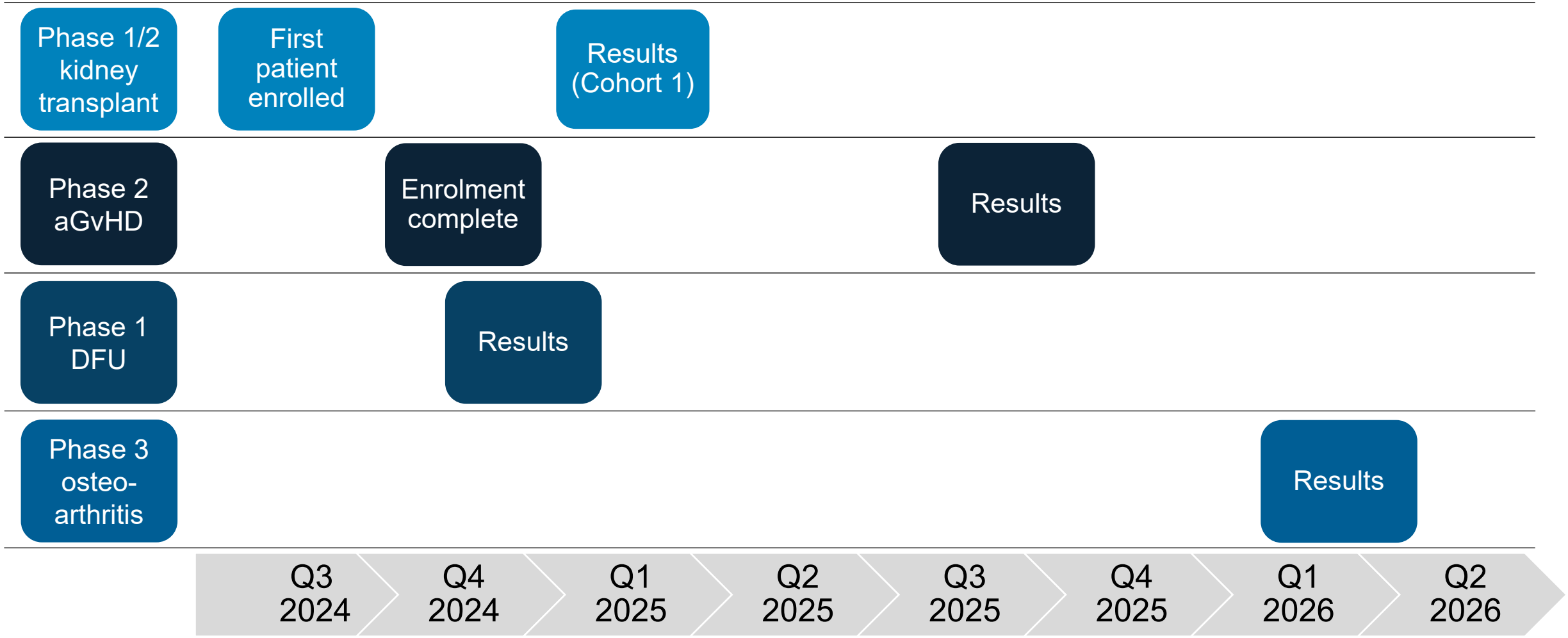
For further information: https://clinicaltrials.gov/study/NCT05165628

Outlook



Upcoming catalysts*

Results of three randomised controlled clinical trials expected between late 2024 and early 2026



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Summary

Next generation stem cell company	• Leading platform technology in burgeoning stem cell sector • Diverse and highly credentialed leadership team with proven experience
Scalable manufacturing	• Cymerus™ manufacturing technology protected by robust patent portfolio • Enables scalable production of consistent MSCs from a single donation from a single donor, overcoming major challenges with conventional approaches
Compelling clinical data	• Very encouraging safety and efficacy results from aGvHD clinical trial (CYP-001) • Promising initial data from ongoing DFU clinical trial (CYP-006TK)
Rich clinical pipeline	• Broad pipeline with four active clinical programs • FDA cleared IND for Phase 2 aGvHD clinical trial; study underway • Patient enrolment complete in DFU & OA clinical trials • Commencement of kidney transplantation clinical trial imminent
Significant growth potential	• Global estimated market opportunity across targeted indications of ~US$28bn[1] • Focus on indications with significant unmet need • Proactive B-2-B outreach to drive partnering strategy

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1. Global Graft versus Host Disease Market 2019-2029 (Reflects forecast market in 2026); 2. Zion Market Research, 2019 (represents global treatment market in 2025); 3. Persistence Market Research 2018 research report: "Osteoarthritis Treatment Market: Global Industry Analysis (2012-2016) and Forecast (2017-2025) (Reflect OA market by 2025); 4. Organ Transplant Immunosuppressant Drugs Market in 2026, Grand View Research, Inc.,2019

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