IMUGENE

Developing Cancer Immunotherapies

ASX:IMU

Leading Innovation in Cancer Treatment

Bell Potter Healthcare Conference

November 2024

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Developing Cancer Immunotherapies

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Imugene is a clinical stage cancer company developing three drug products in CAR T cell therapy and oncolytic viruses.

Investment Highlights

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Market Capitalisation
As of 13 November 2024
A$342M

Cash Position
As of 30 September 2024
A$54.3M (Pro-forma)

4 PLATFORM TECHNOLOGIES

Allo CAR T Cell Therapy
CF33 Oncolytic Virus
onCARlytics
B Cell Immunotherapy

LONG-LIFE PATENT PORTFOLIO

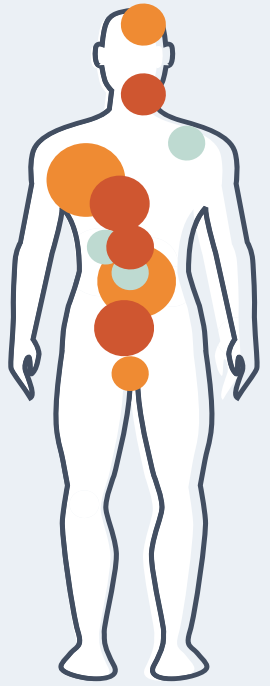
4 CLINICAL STUDIES

> 200 cancer patients dosed

azer-cel Ph1b DLBCL (FDA IND)
VAXINIA: Ph1 Solid Tumours (FDA IND)
onCARlytics: Ph1 Solid Tumours (FDA IND)
PD1-Vaxx: Ph2 neoPOLEM

DISEASE AREAS

Blood cancers
Breast (TNBC)
Lung (NSCLC)
Gastric
Gastroesophageal
Colorectal (CRC)
Melanoma
Head and Neck
Cholangiocarcinoma
Pancreatic
Bladder



Three Novel Cancer Technologies In Clinical Trials

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Allo CAR T Cell Therapy
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azer-cel CD19 CAR T

Phase 1b

- Off-the-shelf drug, aka **"Allo"**geneic
- Targeting blood cancers
- Positive Phase 1 data in 84 patients
- Currently in Phase 1b
- FDA IND

CF33 Oncolytic Virus
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CF33 Oncolytic Virus
VAXINIA MAST Trial

Phase 1

- Novel cancer killing virus
- Targeting a range of late-stage solid cancers
- Phase 1 trial with >40 patients enrolled
- Encouraging results in bile tract cancer
- FDA IND

onCARlytics
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onCARlytics CD19 expressing virus
OASIS Trial

Phase 1

- Novel virus which acts as a CD19 target in solid cancers
- Makes solid cancers visible to CD19 drugs
- Currently in Phase 1 in combination with Blinatumomab (Approved CD19 drug in blood cancers) in solid cancers
- FDA IND

Allo CAR T Cell Therapy
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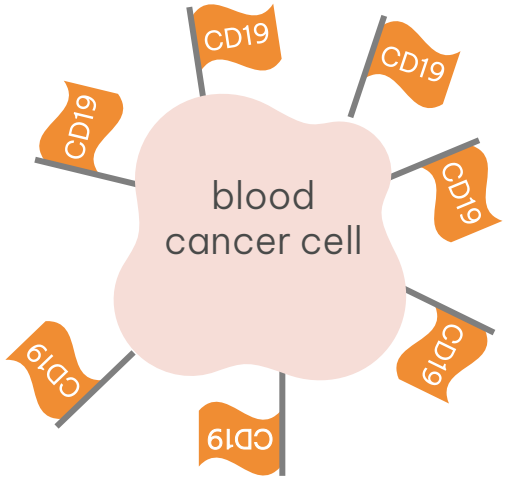
AZER-CEL CD19 CAR T FOR BLOOD CANCER

What is Autologous CAR T Therapy?

A cancer treatment in which a patient's T-cells are reprogramed in a laboratory so that they become like a guided missile to attack certain proteins (ie CD19) on the cancer cells - CAR T stands for chimeric antigen receptor T-cell. Currently many CD19 targeted auto CAR Ts are approved and only in blood cancers.

T-cells taken from patient's blood

Patient's T-cells reprogrammed into CD 19 targeted CAR T



Two types of CAR Ts

Personalised aka **autologous**/auto.
Made from the patient's own T-cells and only works for them

Off the shelf aka **allogeneic**/allo
Made from healthy donor T-cells that provide CAR T drug that works for many patients

What is Imugene's azer-cel Allogeneic CAR T?

Allo CAR T Cell Therapy
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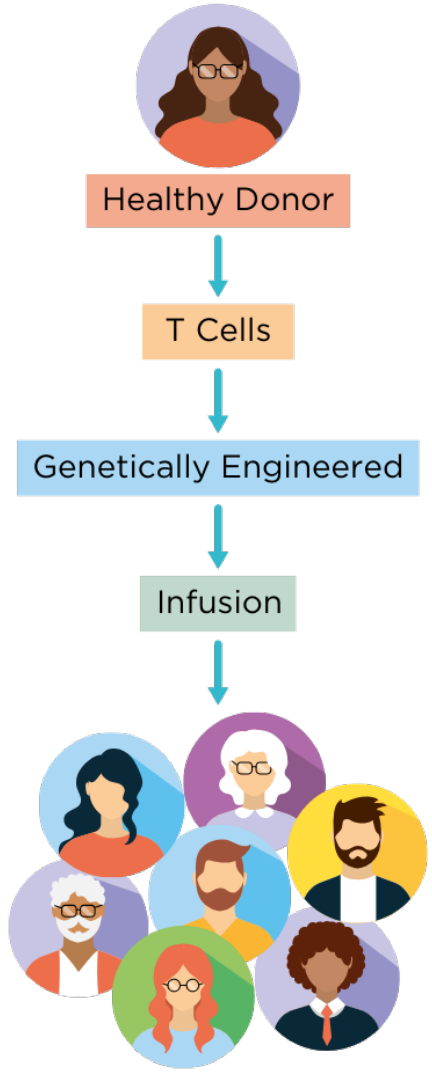
Azer-cel is an **'off-the-shelf' CD19 CAR T drug,** aka allogeneic, which is made from healthy donor T-cells that provide CAR T drug that works for **many patients**

Azer-cel is currently enrolling patients with a rare form of blood cancer known as diffuse large B cell lymphoma (DLBCL) **for patients who have failed approved treatments**

Approximately **30,000** cases (US) per year of DLBCL blood cancer[1]



CAR T drugs have **revolutionised treatments** for blood cancer

The technology was acquired in September 2023

A Phase 1 clinical trial in 84 patients was completed across twelve leading cancer centres in the US

The large Phase 1 trial demonstrated safety and **encouraging signs of efficacy**

Currently in a Phase 1b trial in leading US and Australian centres

[1]https://ascopost.com/news/november-2023/novel-strategy-may-improve-outcomes-in-patients-with-treatment-resistant-dlbcl/

67% Complete Response Rates Observed in Phase 1b Cohort B

Allo CAR T Cell Therapy
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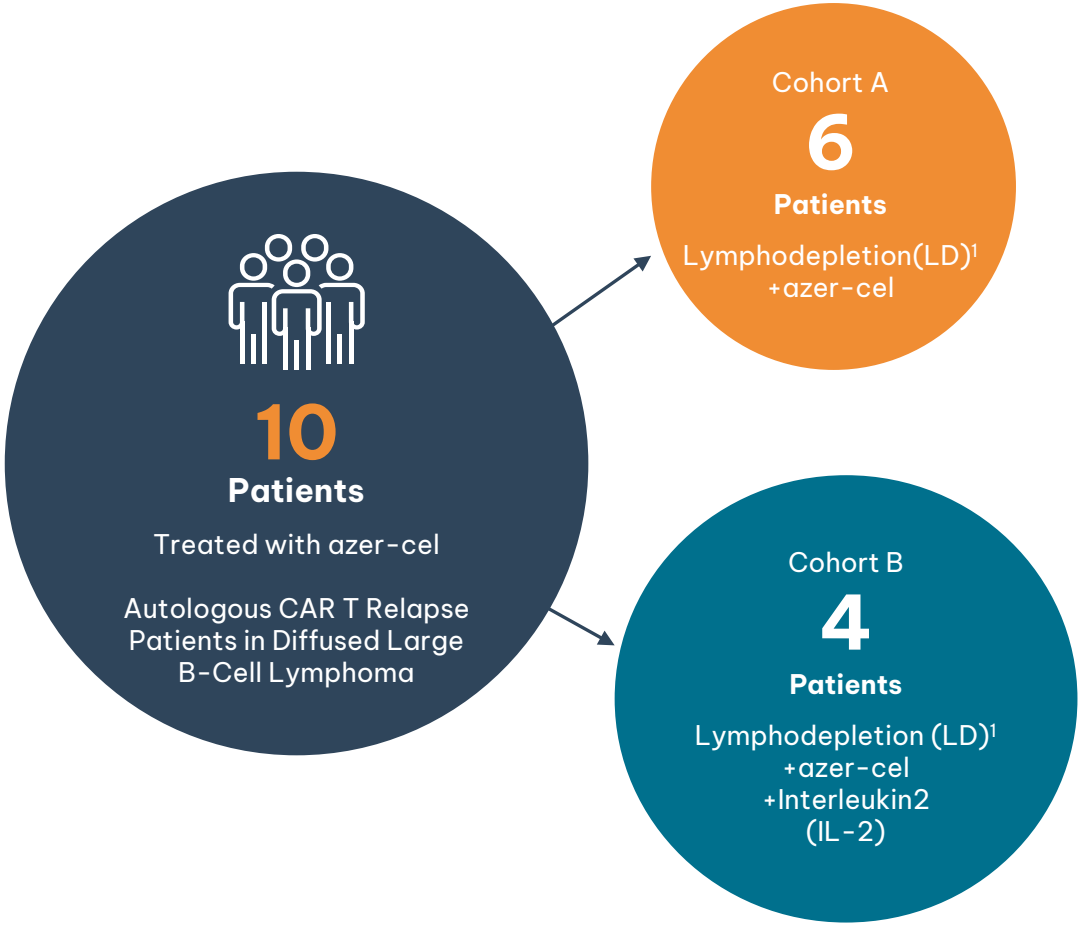

	Evaluable patients: Cohort A+B (N=9)	Evaluable patients: Cohort A (N=6)	Evaluable patients: Cohort B (N=3)
Overall Response Rate %	4 (44%)	2 (33%)	2 (67%)
Complete Response %	3 (33%)	1 (17%)	2 (67%)
Best Durability (Time of response)		<60 days	>120 days on going

Cohort B Results

- The first 2 patients treated achieved a complete response (CR), 1 patient had stable disease (SD), 1 patient yet to be evaluated
- Responses were seen in patients who failed multiple prior treatments, including autologous CAR T therapies
- Phase 1b trial continues to enrol patients into Cohort B across leading cancer centres in the U.S. and Australia including, Columbia University, University of Minnesota, Emory and Moffitt Cancer Centres and Royal Price Alfred Hospital

[1]Lymphodepletion(LD)/chemotherapy: Aug Cy: Flu 30mg/m2 x 3d, Cy 750mg/m2 x 3d

PET Scans Of Complete Response Patient

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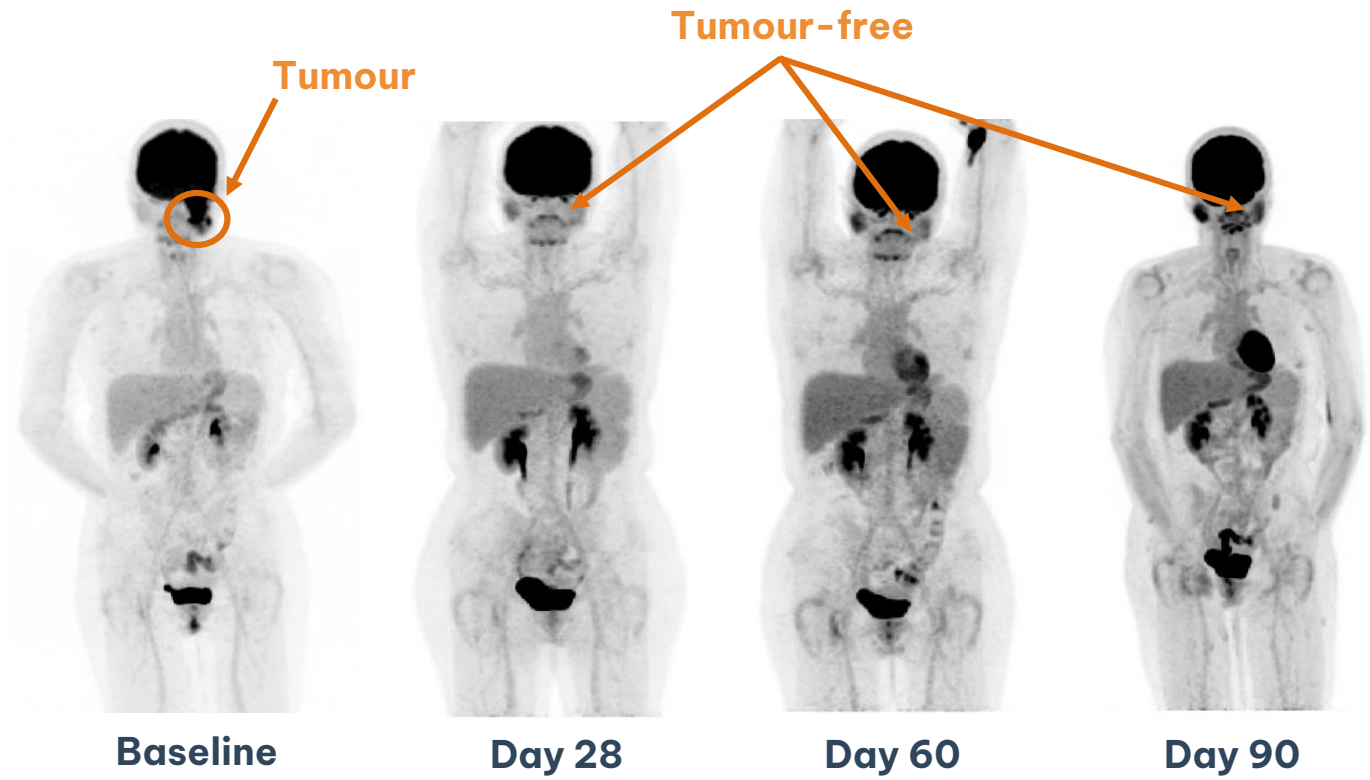
Patient Treatment Summary

- 47 yo female, first diagnosed with High-grade B-cell lymphoma (HGBCL), stage IV in Jul 2022. Treated at Emory University.
- Prior to azer-cel, **patient failed 4 prior lines of therapy;** R-CHOP; R-DHAP, **Yescarta**, and Prednisone
- Pathologist report revealed neoplastic cells were positive (90%) for CD19 by flow
- Azer-cel treatment regimen
    - Augmented Cy conditioning regimen (750 mg/m2/d (3d) Cyclophosphamide i.v. + 30 mg/m2/d (3d) fludarabine iv) + low dose SC IL-2
- **Notable Safety Events–No CRS/ICANS**
- Response – CR @ D28, D60 & **D90**



Azer-cel Clinical Development Strategy

Allo CAR T Cell Therapy
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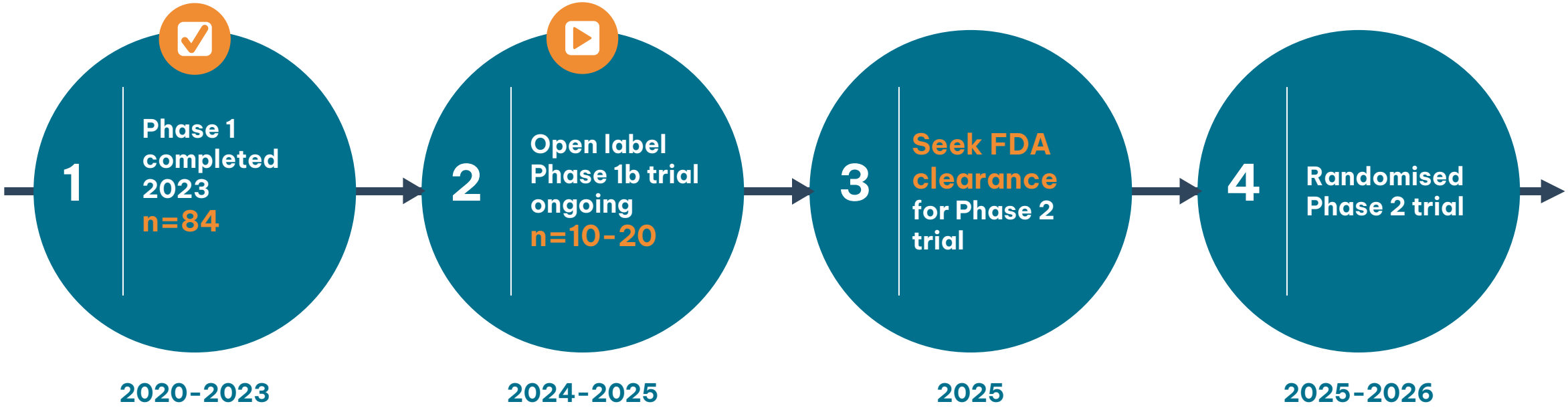
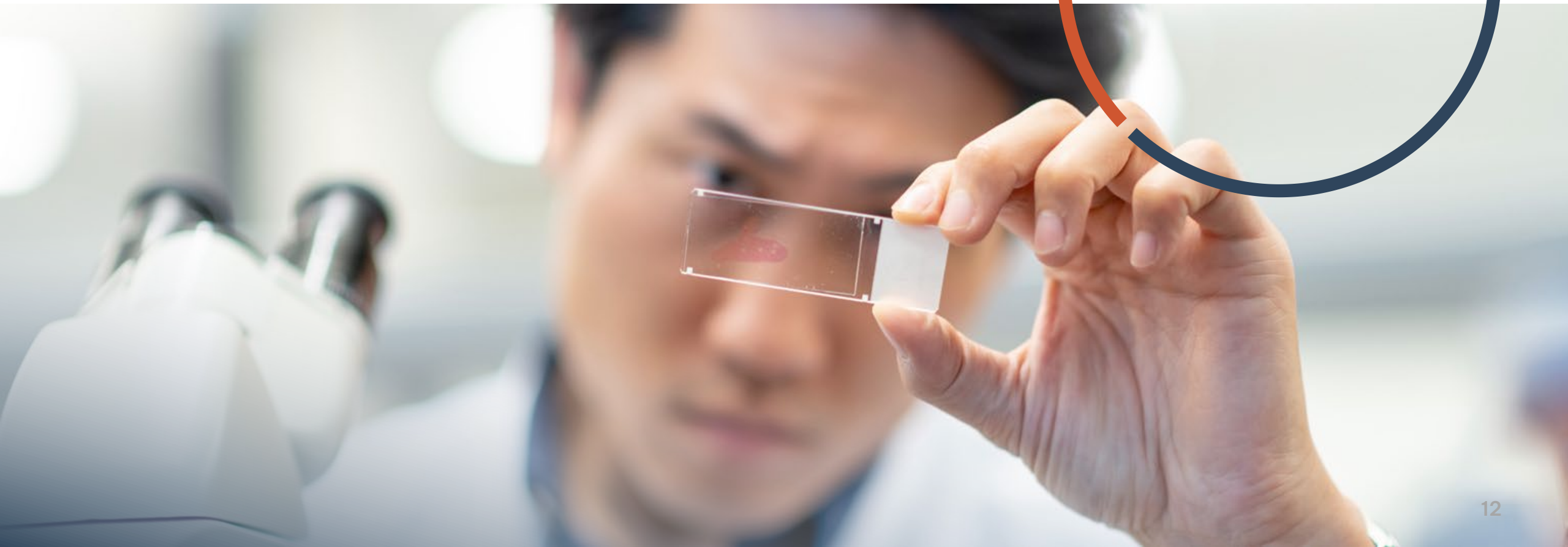


Milestones:

- Preliminary early DLBCL Phase 1b data update
- Diffused Large B-Cell Lymphoma (DLBCL) Phase 1b interim data update
- Target regulatory meeting with FDA
- FPI in Phase 2 trial

CF33 VAXINIA ONCOLYTIC VIRUS

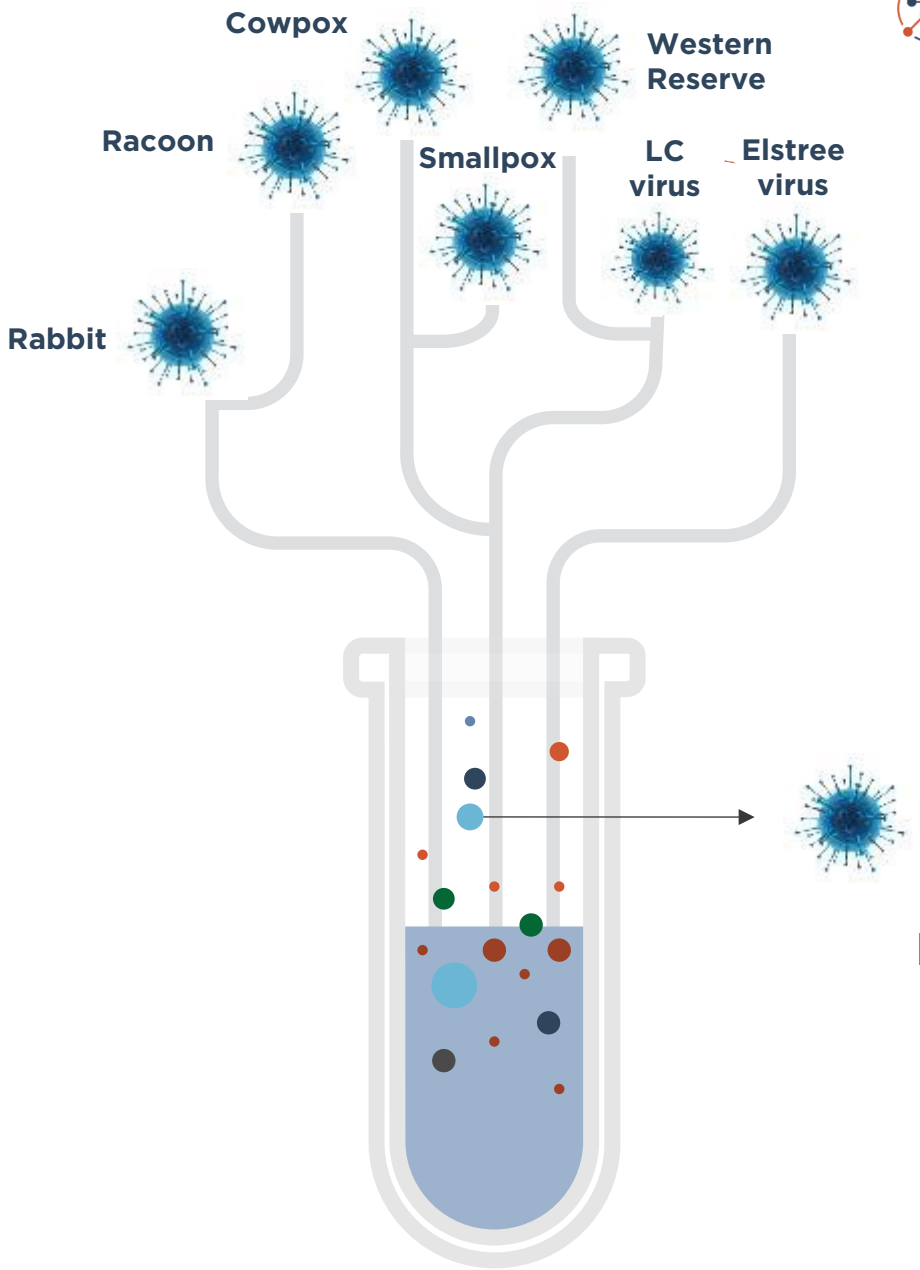


WHAT IS THE CF33 VIRUS & WHERE DID IT COME FROM?

Engineered next-generation virus

A synthetic virus– it does not exist in nature

CF33 is an anti-cancer virus which only attacks cancer cells



CF33

Invented by Professor Yuman Fong

City of Hope

CF33 VAXINIA Can Infect and Kill Cancer Cells

CF33 Oncolytic Virus
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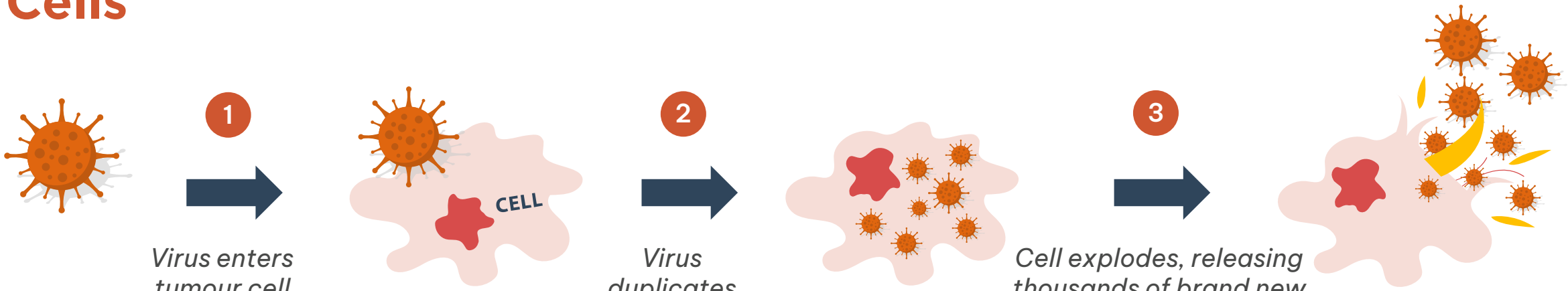

Engineering enhancements

- Infect and kill only cancer cells
- Carry payloads to increase killing

Multiple ways to kill cancer cells

- Direct killing
- Activation of immune cells to kill cancer cells
- Priming the tumour environment to enhance immune response[1]

Precedent for approval

- Tvec approved in the United States for skin cancer (2015)
- Oncorine approved in China for head and neck cancer (2005)
- Delytact approved in Japan for brain cancer (2021)

TME: tumour microenvironment

1. *Ribas et al., Cell 170:1109, 2017*

Phase 1 MAST Trial – Encouraging Early Signals

CF33 Oncolytic Virus
IMUGENE

Patients[1]
- >40 patients have been dosed and evaluated (at least their first scan at day 42)

Disease Control So Far
- Nearly half of the evaluable patients (48%) have remained on treatment for >3 months
- 3 patients have remained on treatment for >200 days

Responses
- Patient with bile tract cancer who had a complete response (CR); ongoing remission for **>2 years**
- 2 patients with melanoma had partial responses (PRs); 17 patients achieved stable disease (SD)

Bile Tract Trial
- Bile tract cancer expansion trial opened based on positive response
- First cohort cleared, establishing safety

Fast Track and Orphan Drug Designation
- US FDA Fast Track Designation for bile tract cancer, which allows for faster review
- US FDA Orphan Drug Designation for bile tract cancer, which allows for further efficiencies

ST VINCENT'S HOSPITAL MELBOURNE
A FACILITY OF ST VINCENT'S HEALTH AUSTRALIA

Karmanos CANCER INSTITUTE

HIGHLANDS ONCOLOGY

City of Hope

Cancer Center

UNIVERSITY OF UTAH HUNTSMAN CANCER INSTITUTE

FDA U.S. FOOD & DRUG ADMINISTRATION

FAST TRACK Designation

Orphan Drug Designation

[1]Preliminary study update as of June 2024; data and number of evaluable patients subject to change with full statistical analysis

MAST CF33 Clinical Development Strategy

CF33 Oncolytic Virus
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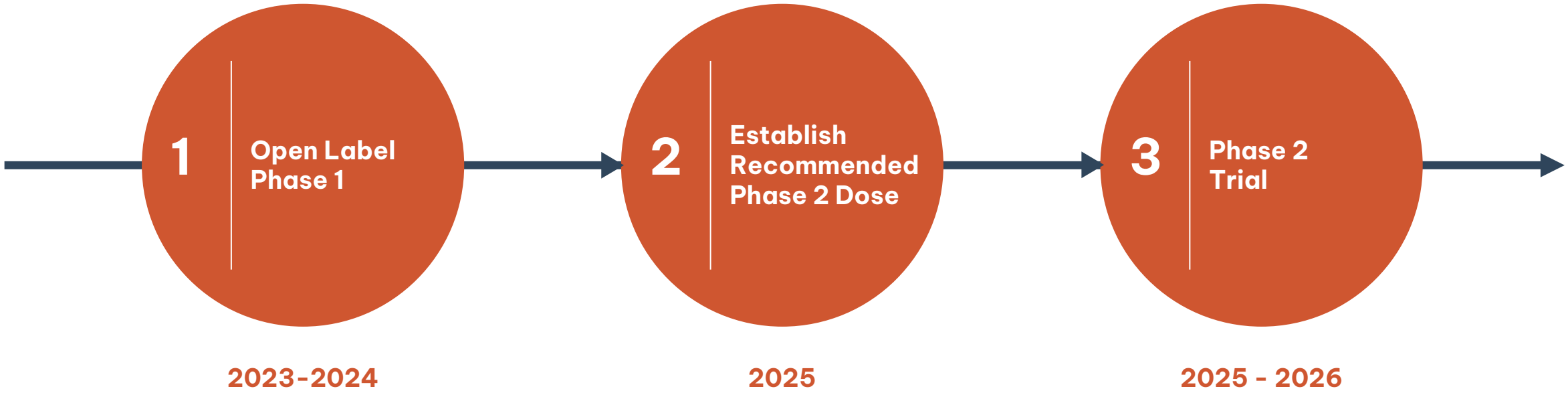

Milestones:

- Intratumoural (IT) Second Indication Trial open
- Preliminary early Bile Tract expansion trial update
- Optimal Biological Dose Established for IT and/or Intravenous (IV) monotherapy
- Phase 2 Study Open
- Phase 2 First Patient In (FPI)

onCARIytics
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ONCARLYTICS CD19 VIRUS FOR SOLID CANCERS

What is Imugene's onCARlytics CD19 expressing virus?

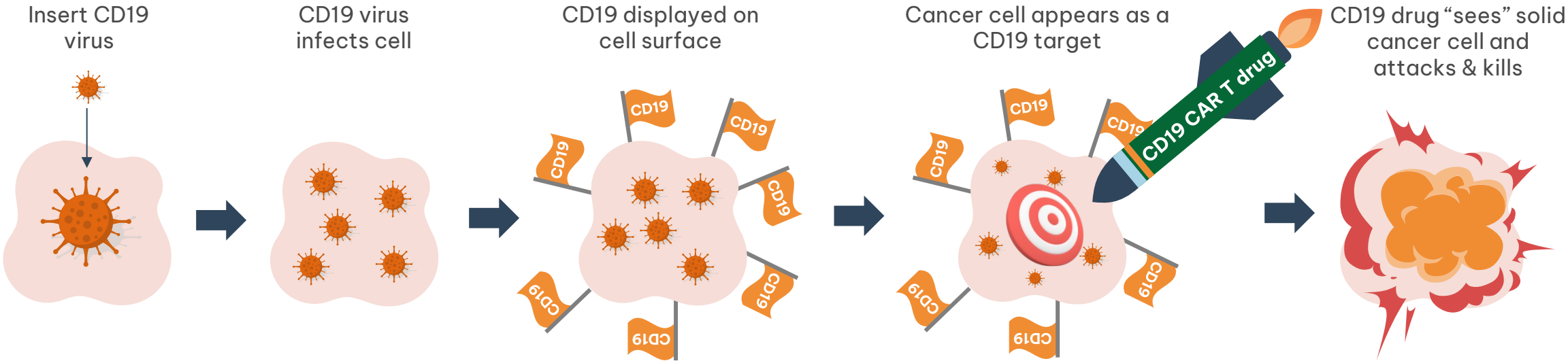
onCARlytics IMUGENE

Imugene's novel onCARlytics CD19 virus, makes a solid cancer "resemble" a CD19 blood cancer cell, and lures FDA approved anti-CD19 CAR T drugs, to attack them

Solid cancers do not have the CD19 molecule on their cell surface

IMU's CD19 virus causes solid cancers to display **(create a target)** the CD19 molecule on their cell surface

This makes them a killing target for anti-CD19 CAR T blood cancer drugs



Imugene has Initiated The OASIS Phase 1 Open Label Trial with CD19 Virus and Blinatumomab

onCARlytics
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Combination treatment for solid cancers

onCARlytics

onCARlytics
CD19 virus

+

CD19 Bispecific
antibody

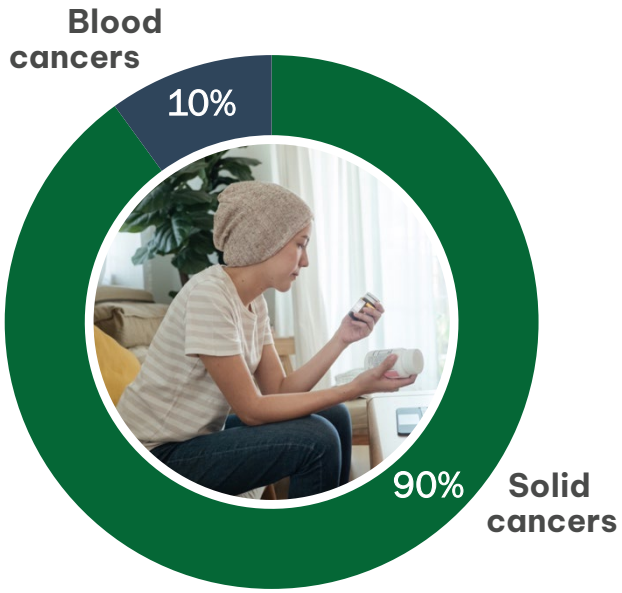
Recruiting up to 40 patients

First patient dosed July 2023 at City of Hope

Multiple trial sites including; University of Cincinnati, MD Anderson Cancer Centre and City of Hope

Variety of Approved Therapies Available for Combination with OnCARlytics

OnCARlytics can become the preferred partner for CD19 therapies in solid tumours (~90% of cancer market)



Global blood cancer CAR T market ~USD $3B in 2023; projected to be ~USD $23B by 2033, growing at a compound annual growth rate of 23.35%[1]

The global solid tumor cancer treatment market size estimated at USD 185.97 billion in 2022 and is projected to grow around USD 532.42 billion by 2032

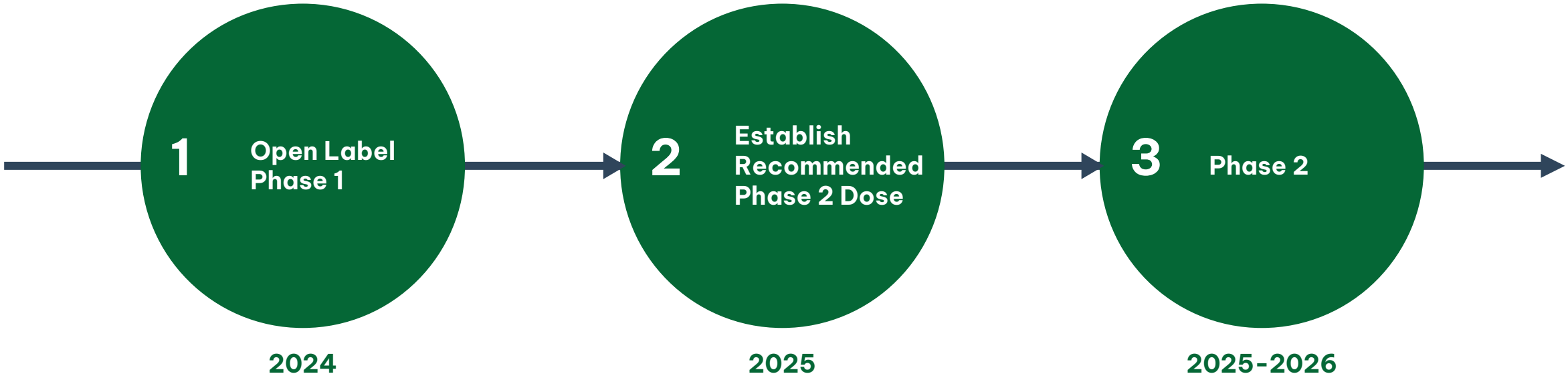
onCARlytics could open up 90% of the market in solid tumours

Combination Opportunities

Company	First FDA Approval	Target	Approved Cancers
KYMRIAH (tisagenlecleucel) — NOVARTIS	2017	CD19 Auto CAR T	B-ALL, DLBCL
YESCARTA (axicabtagene ciloleucel) — Kite, A GILEAD Company	2017	CD19 Auto CAR T	DLBCL, R/R FL
TECARTUS (brexucabtagene autoleucel) — Kite, A GILEAD Company	2020	CD19 Auto CAR T	R/R MCL
Breyanzi (lisocabtagene maraleucel) — Bristol Myers Squibb	2021	CD19 Auto CAR T	DLBCL
MONJUVI tafasitamab-cxix — morphosys	2020	CD19 Monoclonal Antibodies (MAbs)	DLBCL
uplizna inebilizumab-cdon — HORIZON	2020	CD19 MAbs	NMOSD
BLINCYTO (blinatumomab) — AMGEN	2014	CD19-CD3 Bispecific MAbs	ALL
zynlonta loncastuximab tesirine-lpyl — ADC THERAPEUTICS	2021	CD19 Antibody- drug conjugate (ADC)	B-Cell Lymphoma

1. https://www.precedenceresearch.com/solid-tumor-cancer-treatment-market

CD19 Virus Clinical Development Strategy



Milestones

- FPI IT Combo Cohort 1
- Early IT and/or IV Combo data
- Optimal Biological Dose (OBD) Established
- Phase 2 FPI
- OnCARlytics + azer-cel FDA IND and FPI in solid tumours

Future combination phase 1 trial with azer-cel and CD19 virus

- **Preclinically**, Azer-cel in combination with onCARlytics demonstrated sustained, robust activity against multiple tumour types
- Showed 100% killing of Triple Negative Breast Cancer and Gastric Cancer at 72 hours

2024 Highlights

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- **azer-cel**: Three Complete Responses in azer-cel Phase 1B DLBCL trial
- **azer-cel**: First Australian site open for Phase 1b Clinical Trial
- **VAXINIA**: Positive trial update; 1 CR (in remission for over 2 years), 2 PRs, All treatments determined to be safe and tolerable
- **VAXINIA**: Orphan Drug Designation for treatment of Bile Tract Cancer, giving 7 years of market exclusivity
- **VAXINIA**: Bile Tract cancer trial open and first cohort cleared
- **VAXINIA**: Oncolytic Virotherapy CF33 patent granted in China and CF33 patent extension to 2040 in US
- **onCARlytics**: OASIS IV and IT Monotherapy cohort cleared
- **onCARlytics**: OASIS Combination arm open, FPI in IV and IT Combo

Key
DLBCL: Diffuse Large B-Cell Lymphoma (Blood Cancer)
CR: Complete Response
PR: Partial Response
FPI: First Patient In
Combo: Combination Therapy
Mono: Monotherapy
IT: Intratumoural, **IV**: Intravenous

Expected Upcoming Key Catalysts H2 2024/2025

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- **azer-cel**: DLBCL Phase 1b interim data update
- **azer-cel**: Target regulatory meeting with FDA
- **azer-cel**: FPI in Phase 2 study
- **azer-cel**: Expansion into additional blood cancers (Phase 1b Expansion Cohort)
- **onCARlytics**: IT and/or IV combination status
- **onCARlytics**: Data update and trial expansion
- **onCARlytics:** Optimal Biological Dose (OBD) Established
- **onCARlytics:** Phase 2 Start-up
- **onCARlytics + azer-cel** FDA IND and FPI in solid tumours
- **VAXINIA**: Second indication trial open
- **VAXINIA:** Optimal Biological Dose Established for IT and/or IV monotherapy
- **VAXINIA:** Phase 2 Study Open
- **VAXINIA**: Phase 2 FPI
- **VAXINIA**: IP & IA Phase 1 FPIs

Key

FPI: First Patient In
Combo: Combination Therapy
Mono: Monotherapy
DLBCL: Diffuse Large B-Cell Lymphoma (Blood Cancer)
IT: Intratumoural, **IV**: Intravenous

Investment Highlights

IMUGENE
Developing Cancer Immunotherapies

Robust platform technologies supporting 4 clinical trials with >200 patients treated to date in US and Australia, all under FDA INDs

Novel platforms in immuno-oncology, cell therapy (CAR Ts) and cancer viruses

Clinical data readouts over next 12 months

Deeply experienced cancer drug development management team

Robust and broad patent portfolio

Experienced Leadership Team has brought > 17 FDA Approved Drugs to Market

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Developing Cancer Immunotherapies

Leslie Chong
Chief Executive Officer & Managing Director

Genentech
A Member of the Roche Group
EXELIXIS
Roche
gsk

Dr. Paul Woodard, MD
Chief Medical Officer

IMMUNE-ONC therapeutics
Bellicum
Genentech
A Member of the Roche Group
AMGEN
EXELIXIS

Dr. Bradley Glover, PhD MBA
Chief Operating Officer

Kite
A GILEAD Company
Genentech
A Member of the Roche Group
Roche
celularity
illumina

Ms. Ursula McCurry
Chief Clinical Operations Officer

AMUNIX™
Genentech
A Member of the Roche Group
EXELIXIS
SuperGen

Dr. John Byon, MD, PhD
Senior VP of Clinical Development

Fate THERAPEUTICS
Lyell
JUNO THERAPEUTICS
Genentech
A Member of the Roche Group

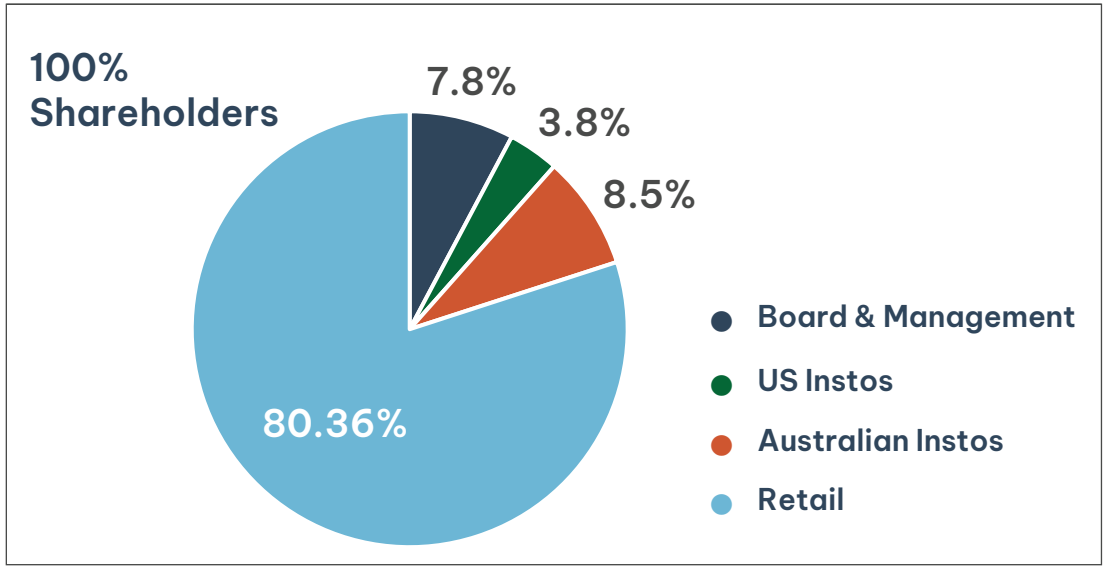
Dr. Monil Shah
Head of Business Development (consultant)

WindMIL THERAPEUTICS
Bristol Myers Squibb
AMGEN
NOVARTIS
Celgene

Corporate Snapshot

IMUGENE
Developing Cancer Immunotherapies

Stock Code	ASX: IMU
12 Month Trading Range	4.3-15 cents
Market Capitalisation (13 November 2024)	$342 million
Shares on Issue	7.4 B
Average Monthly Trading Volume	400 million shares
Cash at Bank (30 September 2024)	A$54.3 million
No of Shareholders	29,543
Board & Management Ownership	7.8%



Top 15 Shareholders

Paul Hopper	409,071,906	5.50%
The Vanguard Group Inc	341,025,483	4.59%
Mann Family	263,730,758	3.55%
Private Clients of AustralianSuper	128,689,952	1.73%
Dr Nicholas Smith	118,000,000	1.59%
Ms Leslie Chong	85,710,416	1.15%
Precision BioSciences	73,638,262	0.99%
Macquarie Securities	50,778,057	0.68%
Thorney Investments	50,328,041	0.68%
5 Financial	49,812,888	0.67%
MLC Limited	39,105,533	0.53%
Private Clients of Netwealth Investments	38,200,635	0.51%
Private Clients of UBS Financial Services	37,922,410	0.51%
Private Clients of HOSTPLUS Choiceplus	37,381,150	0.50%
BlackRock Investment Mgt	35,397,315	0.48%

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