



FIGHTING AGAINST CANCER





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INVESTMENT HIGHLIGHTS Strong cash

IMUGENE

Expert leaders with 13 prior FDA approved cancer drugs

position

Numerous key catalysts expected in 2024

Long-life patent portfolio



4 cancer therapeutics in 4 clinical trials

MARKET CAPITALISATION AS OF

20 JUNE 2024

A\$432M





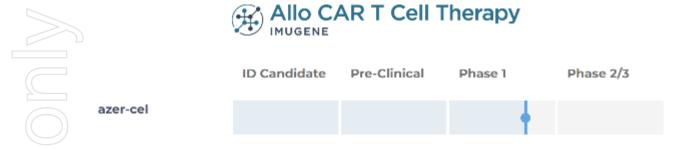
CASH AS OF 31 MARCH 2024

A\$114.1M



THREE NOVEL TECHNOLOGIES ADVANCING THROUGH THE CLINIC





azer-cel trial: In patients with DLBCL blood cancer who failed autologous CAR T therapy



VAXINIA MAST trial: in patients with metastatic or advanced solid tumours with additional focus on cholangiocarcinoma, or bile tract cancer



onCARlytics OASIS trial: in patients with advanced or metastatic solid tumours in combination with blinatumomab

Subject to patient enrolment, preliminary early data from all 3 programs expected in 2024

VAXINIA

(CF33 + hNIS)

(CF33 + CD19)

IMUGENE CLINICAL EXECUTIVE TEAM



Over 150 years of Cancer Drug Development Experience 13 FDA Approved Drugs to market









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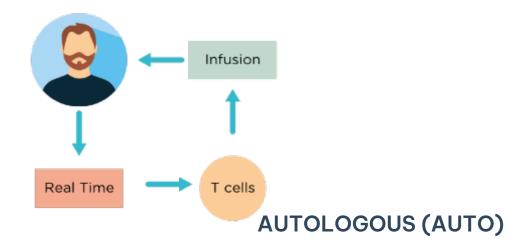
AZER-CEL CD19 ALLOGENEIC CAR T CELL THERAPY



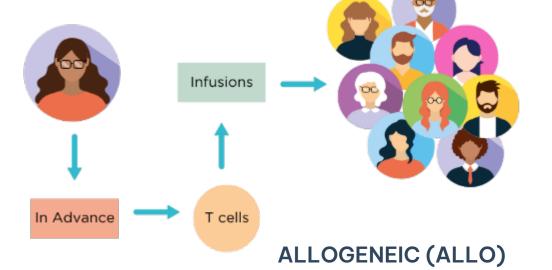
THE FUTURE OF CELL THERAPY IS OFF THE SHELF (ALLOGENEIC) CAR T

Allo CAR T Cell Therapy





- Auto CAR Ts are made from the patient's own T-cells cells. Limited patient access (highly personalized)
- Long and complex manufacturing process and wait time (requires leukapheresis* and often extra chemotherapy treatment until cells are ready)
- High manufacturing costs
- Variable potency due to health of patients own T cells



- Allo CAR Ts are made from a universal donor. Broad patient access (multiple patients from a single batch)
- Can be mass produced, available on demand and offthe-shelf immediately (no leukapheresis* and no bridging treatment required). Ready when you need them.
- More efficient and cost-effective manufacturing
- Healthy donor cells engineered for potency and persistence

Allo CAR T Cell Therapy

ALLOGENEIC (ALLO) CAR T THERAPY - A LIVING DRUG; OFF THE SHELF

Allo CAR T cell therapy is a type of immunotherapy that uses healthy donor T Cells that are genetically modified and engineered to be used "off the shelf" for multiple patients

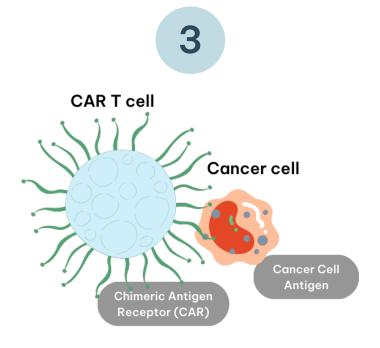


HEALTHY donors provide T Cells to make the CART product candidate.

Donor T cells are processed for "universal match" and incorporated to chimeric antigen receptor designed to attack tumour cells.



As an "off the shelf" product, the processed batches can be frozen and shipped to multiple hospitals and clinics. Each batch product can produce multiple doses. The reprogrammed CD 19 T Cells are then injected into the cancer patient



When the CD19 T Cells see the cancer cells with CD19 on them, the T Cells attack and kill them

AZER-CEL HAS MEANINGFUL CLINICAL ACTIVITY IN BLOOD CANCER



84 patients treated with azer-cel

61

Non-Hodgkin lymphoma (NHL)
Patients

58% ORR¹

41% CR²

23

B-Cell lymphoblastic leukaemia (B-ALL) Patients

61% ORR

61% CR/CRi

All Doses / All LD* Regimens

1.ORR - Overall Response Rate 2.CR - Complete Response *Iymphodepletion Note: Based on Patients Evaluable for Efficacy

AZER-CEL HAS THE POTENTIAL TO BE A NEW DRUG FOR BLOOD CANCER



High response rates and durability

84 blood cancer patients treated with azer-cel: 61 patients with Non-Hodgkin lymphoma (NHL); 23 patients with B-Cell acute lymphoblastic leukaemia (B-ALL)

Across All Subjects

All Doses / All LD* Regimens 61

NHL Patients

CAR T Relapse Pts

18 Patients

Demonstrating Safety

83% Overall Response Rate

61% Complete Response Rate 55% Duration of Response ≥ 6-months¹

> *Median duration in ≥ 6-month responders is 431 days

AZER-CEL OFF-THE-SHELF (ALLOGENEIC) CAR T





Safety and Efficacy in DLBCL¹(Type of Blood Cancer)

- Azer-cel showed no safety concerns
- 83% overall response rate (ORR) with durable responses of 6 months



High Unmet Need

- DLBCL is an aggressive and fast-growing type of non-Hodgkin's lymphoma (Blood Cancer)
- ~30,000 new cases per year in the U.S.²



Azer-cel

- Allogeneic CAR T therapy
- Takes healthy donor immune cells & re-engineers them to fight cancer.



First-to-Market Potential

- Currently in Phase 1b trial; potential for registrational Phase 2/3 trial for FDA approval
- Azer-cel could be the first approved allogeneic CAR T therapy for patients with DLBCL who failed autologous CAR T

Blockbuster³ Drug Potential

- Global CAR T market ~USD \$3B in 2023; projected to be ~USD \$23B by 2033, growing at a compound annual growth rate of 23.35%⁴
- 60-65% of patients treated with autologous CD19 CAR T have their cancer return; azer-cel could be a treatment



CD19 AUTOLOGOUS CAR T RELAPSE MARKET IS LARGE AND GROWING



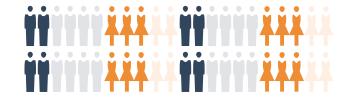






60-65%

of patients currently treated with autologous CD19 CAR T will relapse¹



By 2025

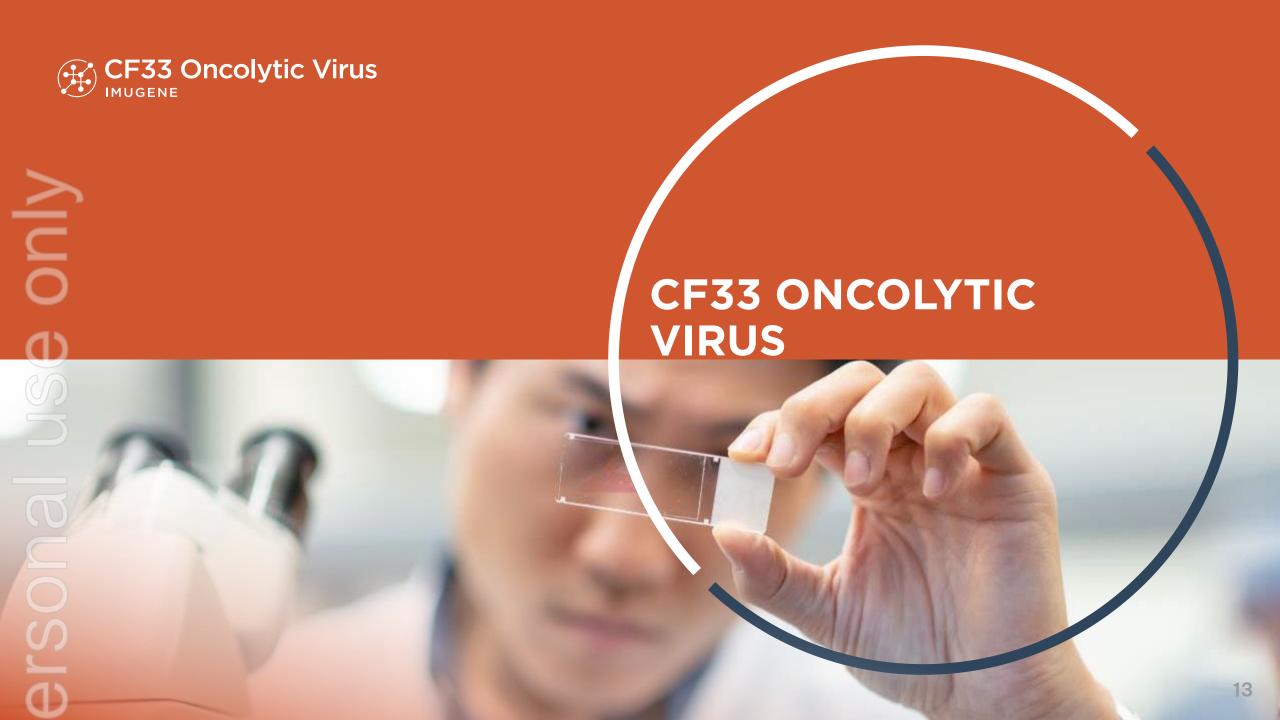
Global CAR T relapse patient pool is expected to grow ~4x as autologous CAR T drugs become the Standard of Care

Estimate total Global G8 markets to be ~18k patients per year²

Azer-cel potential blockbuster sales of ~\$2.5B³ per annum in DLBCL (Blood cancer) CAR T relapsed patients

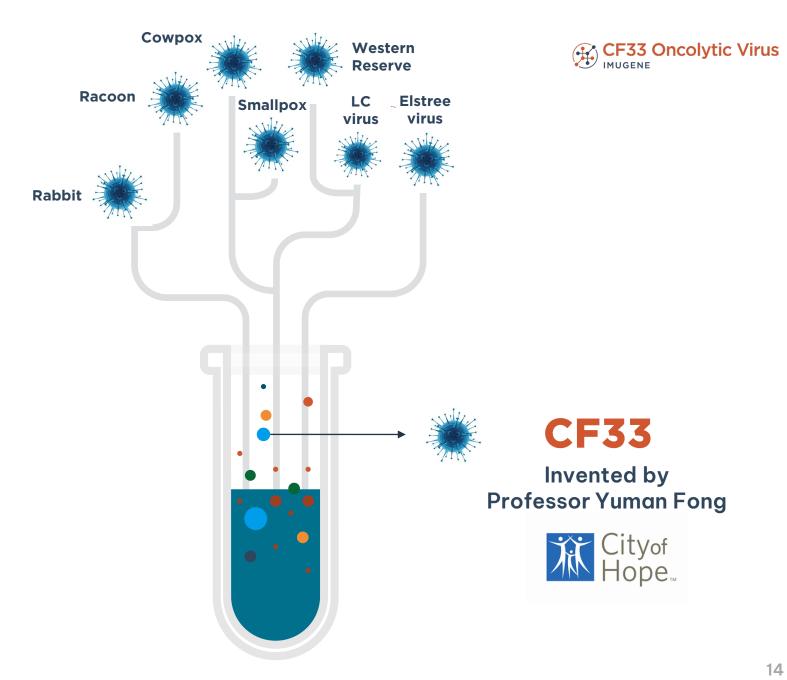
Note: Retrospective Literature states that 12-28% of patients have antigen negative relapse (CD19-)

- 1. Estimated from ZUMA 1 and ZUMA 7 EFS rates;
- 2. G8 includes US, Japan, Canada and EU5 assuming equal access to CART therapies; market research, CancerMPac
- 3. TAM: total addressable market is total number of treatable patients x price at 100% market share



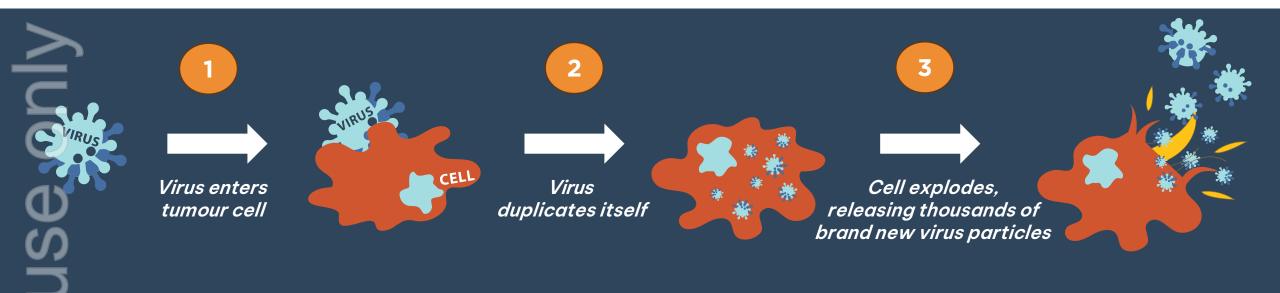
WHAT IS THE CF33 VIRUS & WHERE DID IT **COME FROM?**

Engineered nextgeneration virus



CF33 CAN INFECT AND SELECTIVELY KILL TUMOR CELLS





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 response¹

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**





Patients

40 patients have been evaluated in the trial







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





Responses

• Patient with bile tract cancer had a complete response (CR) (no signs of cancer); ongoing remission for >1.6 years . 2 patients with melanoma had partial responses (PRs) (decrease in cancer) and 17 patients achieved stable disease (SD)



Bile Tract Trial

- Trial in bile tract cancer patients based on positive response
- Preliminary data are expected in late 2024/early 2025





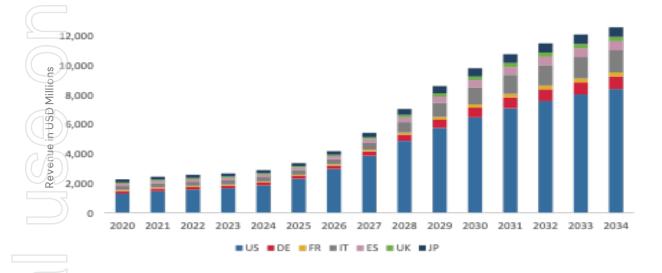
• US FDA Fast Track Designation for bile tract cancer, which allows for faster review

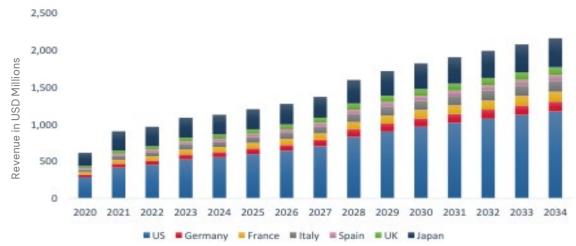


IMUGENE IS PURSUING LARGE AND GROWING



• The global solid tumor cancer treatment market size was estimated at USD 185.97 billion in 2022 and is projected to hit around USD 532.42 billion by 2032, growing at a compound annual growth rate (CAGR) of 11.09% during the forecast period 2023 to 2032.1





Bladder cancer is a highly recurrent disease

INDICATIONS

- Total (NMI)² bladder cancer market size was USD \$2.3 B in 2020
- Expected to grow to USD \$12.5B by 2034 at a compound annual growth rate (CAGR) of 12.3%
- Delveinsight Non-muscle Invasive Bladder Cancer (NMIBC) Market Insight, Epidemiology, and Market Forecast 2034 (January 2024)

- Bile tract cancer
- Total market size was USD \$613 million in 2020
- Expected to grow to USD \$2.2B million by the end of 2034, at a compound annual growth rate (CAGR) of 9.4%

Delveinsight Biliary Tract Cancer Market Insight, Epidemiology, and Market Forecast – 2034 (February 2024)

OTHER ONCOLYTIC VIRUSES IN DEVELOPMENT



COMPANY	MARKET CAP (USD)	ASSET/TARGET CANCERS	
Replimune	\$561.49 M	RP1, Various solid cancers	
GENELUX	\$81.414 M	Olvi-Vec, Ovarian cancer	
©CG ONCOLOGY™	\$2.09 B	cretostimogene grenadenorepvec, Bladder cancer	
CANDEL	185.98 M	Lung, pancreatic, prostate, brain cancers	

- Oncolytic viruses are validated, generating interest from other companies
- Imugene has differentiated oncolytic viruses and a unique opportunity

Son



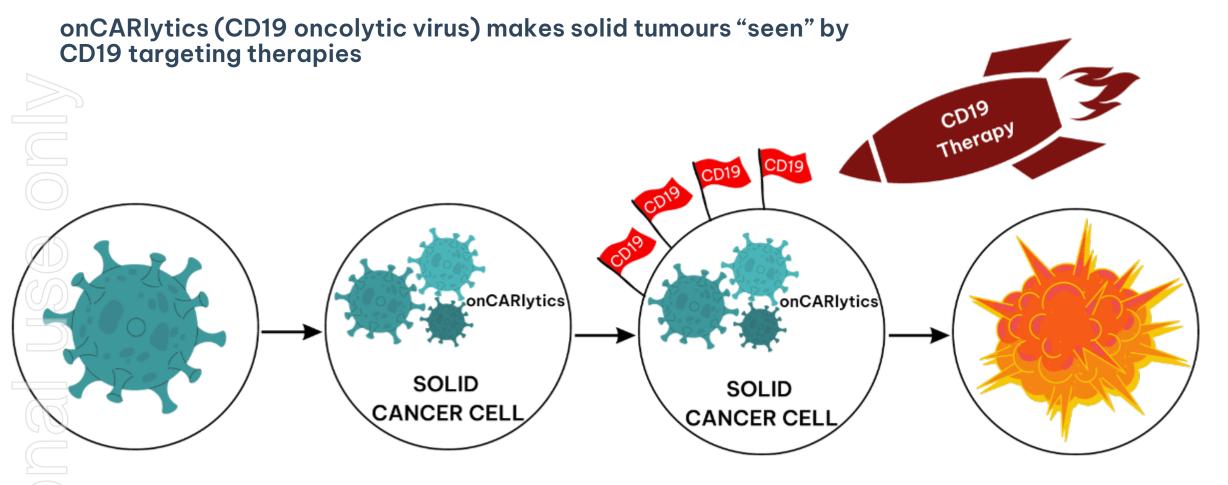
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HOW DOES ONCARLYTICS WORK?





onCARlytics infects cancer cells onCARlytics replicates and produces CD19 on the cell surface enabling CD19 cell targeting Cancer cell death leads to onCARlytics viral particle release. The combination stimulates the immune system to attack

Released onCARlytics viral particles infect surrounding cancer cells

ONCARLYTICS (CF33-CD19)

Combination treatment for solid tumours



Current Clinical Trial

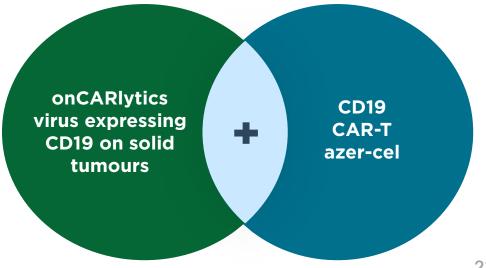
onCARlytics virus expressing CD19 on solid tumours

CD19 Isspecific Blinatumomab

CD19 Isspecific Blinatumomab

- Phase 1 trial in solid tumour patients
- Combination cohort open for enrolment
- FPI IV combination in June, 2024

- 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

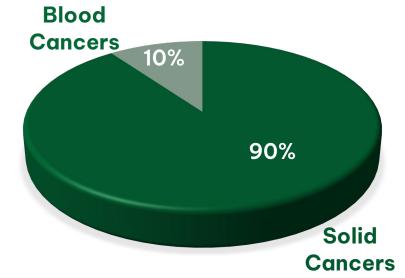


VARIETY OF APPROVED THERAPIES AVAILABLE FOR COMBINATION WITH ONCARLYTICS



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

Combination Opportunities



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

COMPANY	FIRST FDA APPROVAL	TARGET	APPROVED CANCERS
OKYMRIAH* (tisagenlecleucel) Other thanks	2017	CD19 Auto CAR T	B-ALL, DLBCL
> YESCARTA* Kite	2017	CD19 Auto CAR T	DLBCL, R/R FL
TECARTUS* (Breuzaktagose autoleuze)	2020	CD19 Auto CAR T	R/R MCL
Breyanzi Bristol Myers Squibb	2021	CD19 Auto CAR T	DLBCL
MONJUVÍ Edasilamab četi i 200 se ov správa na dominios de servicios de	2020	CD19 Monoclonal Antibodies (MAbs)	DLBCL
Suplizna HORIZON	2020	CD19 MAbs	NMOSD
BLINCYTO Distribution and the state of the s	2014	CD19-CD3 Bispecific MAbs	ALL
Zynlonta V Incabatra balla by	2021	CD19 Antibody- drug conjugate (ADC)	B-Cell Lymphoma

COMPANIES DEVELOPING CAR T THERAPEUTICS



COMPANY	MARKET CAP (USD)	DRUGS/TARGETS
NOVARTIS	\$234.50 B	Kymriah®, first CAR T-cell therapy
راأاً، Bristol Myers Squibb°	\$82.45 B	Breyanzi®, Abecma®
GILEAD Creating Possible	\$84.88 B	Yescarta® and Tecartus® (acquired from Kite for \$11.9B)
Autėlus	\$900.53 M	AUTO 06NG in development
LEGEND BIOTECH	\$8.24 B	LCAR-B38M in development
BIONTECH	18.71 B	BNT211 in development
Allogene	\$460.53 M	Multiple therapies in development
6 ImmunityBio	\$4.27 B	Bladder, ovarian, lung, HPV, lung, and other solid cancers

CAR T therapies drive significant shareholder value

CAR Ts are validated in blood cancers; a huge opportunity exists in solid tumors

Imugene's azer-cel CAR T is a differentiated CAR T and represents a unique and large opportunity



RECENTLY ACHIEVED AND EXPECTED UPCOMING KEY CATALYSTS



RECENTLY ACHIEVED



✓ Kincell Bio acquired manufacturing

VAXINIA:

- ✓ MAST trial positive early signals
- ✓ MAST FPI in higher dose cohorts
- ✓ Patent granted in China
- ✓ IT Mono Bile Tract Expansion Open

ONCARLYTICS:

- FPI in Monotherapy IV arm
- ✓ Combination arm opened
- FPI in Combination IV arm Cohort 2

Key:

FPI, First Patient In, Combo: Combination Therapy

Mono: Monotherapy,

IA: Intra-arterial, IP: Intraperitoneal,

IT: Intratumoural, IV: Intravenous

H2 2024

- VAXINIA: IT Expansion Open other indication
- AZER-CEL: Prelim early Phase 1b data update
- ONCARLYTICS: FPLIT Combo
- PD1-VAXX: FPI Neo-POLEM (Phase 2 Colon Cancer)

2025

- AZER-CEL: Phase 1b data updates
- AZER-CEL: Target regulatory meeting with FDA
- AZER-CEL: Expansion into additional blood cancers (Phase 1 Expansion Cohort)

- ONCARLYTICS: Data update and trial expansion
- ONCARLYTICS + AZER-CEL FDA IND and FPI in solid tumours
- VAXINIA: Phase 2 FPI
- VAXINIA: IP & IA Phase 1 FPIs
- PD1-VAXX: NeoPOLEM (Phase 2 Colon Cancer) update



IMUGENE COMMERCIALISATION STRATEGY MULTIPLE VALUE REALISATION PATHWAYS











LICENSE TECHNOLOGIES SEPARATELY



DEVELOP /
COMMERCIALISE
INDEPENDENTLY

- The global model for biotech commercialisation is to out-license the technology to Big Pharma in Phase 1b/2 trials
- Conducting Phase 3 trials, obtaining FDA approval for the product not within the remit of biotech
- Out-licensing is highly dependent upon demonstrating safety in Phase 1 and convincing signals of efficacy in Phase 1b/2
- Licensing deals are generally structured with an up-front cash payment, payments upon reaching certain development milestones such as entering Phase 3 trials, payment on FDA approval of the drug, and royalties on net sales when the drug is on the market

IMUGENE INVESTMENT HIGHLIGHTS Strong cash position Expert leaders with 13 prior FDA approved Numerous key cancer drugs catalysts expected in 2024 Long-life 4 cancer therapeutics patent portfolio in 4 clinical trials

MARKET CAPITALISATION AS OF

20 JUNE 2024





CASH AS OF 31 MARCH 2024

A\$114.1M





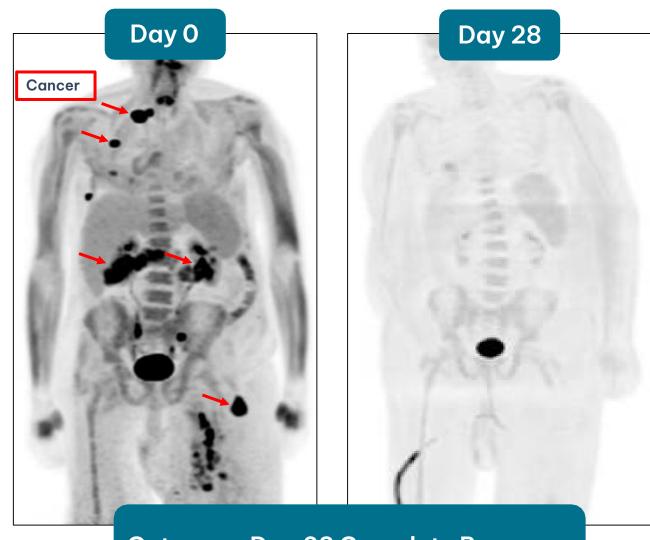
APPENDICIES

AZER-CEL PRIOR PHASE 1 CASE STUDY



Complete Response

- 63-year-old male with DLBCL (Blood Cancer)
- Complete response (CR), or the disappearance of all signs of cancer, with azer-cel treatment
- Response seen at day 28
- Prior to azer-cel, patient had failed 8 prior cancer treatments



Outcome: Day 28 Complete Response

PHASE 1 VAXINIA

Metastatic Advanced Solid Tumour (MAST) Trial





n=52-100 patients



Intratumoural (IT) Administration

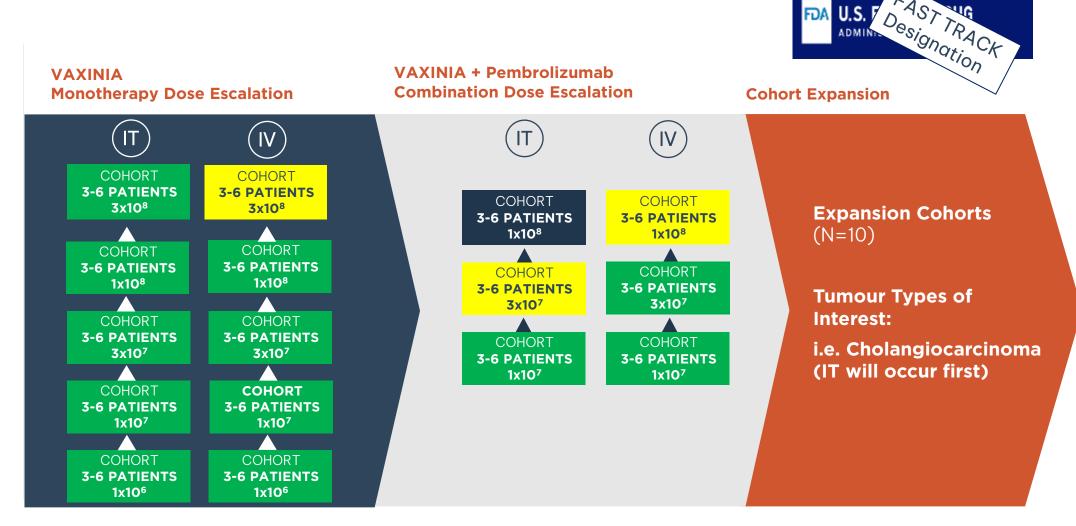
Metastatic and Advanced Solid Tumours



Intravenous (IV) Administration

Metastatic and Advanced Solid Tumours

Site Location: USA, AUS

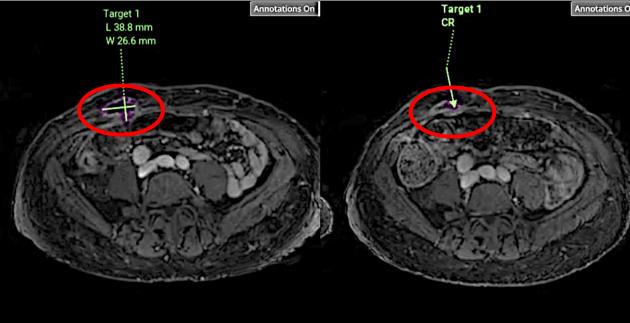


TURNING COLD TUMOURS HOT



Complete Remission after Pseudoprogression (immune activity) in a Monotherapy patient with a cold tumour (bile tract cancer)





Baseline scan Start of the Trial Second scan
Pseudoprogression
(Tumour looks to have grown due to immune activity)

Third scanDecreased size

Fourth scan
Complete Remission



PHASE 1 ONCARLYTICS (CF33 + CD19)



OASIS TRIAL

Dose Administration (Parallel Groups)

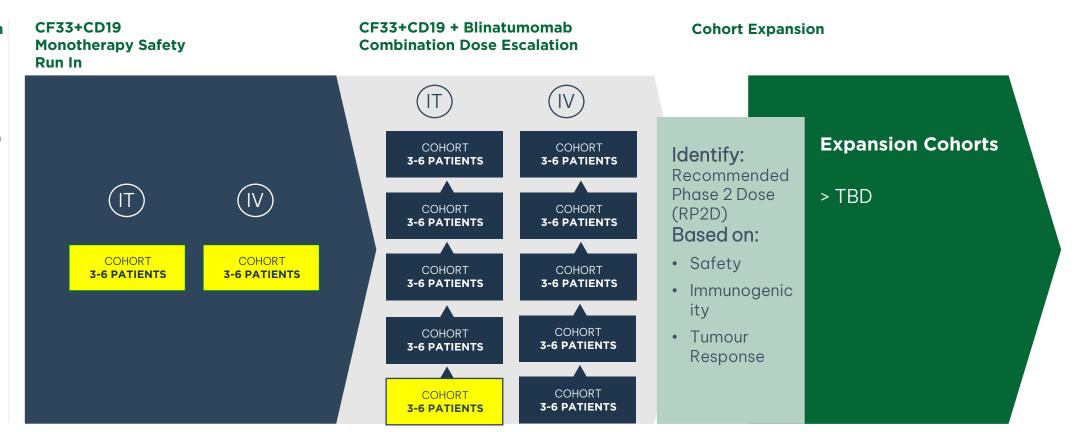


Intratumoural (IT)
Administration

Metastatic and Advanced Solid Tumours



Intravenous (IV)
Administration
Metastatic and
Advanced Solid
Tumours



RECENT DEALS IN CELL THERAPY SUPPORT EXPANDING MARKET



Date	Deal Type	Deal Summary (Licenser, Licensee)	Technology	Indication	Stage	Financials
May 2022	Collaboration and license agreement	Cellular Biomedicine, Janssen	CAR T therapies (CD19/CD20 bispecific and CD20)	B cell malignancies	Phasel	\$245mm upfront cash payment + milestones and royalties
Nov 2022	Acquisition	AstraZeneca, Neogene Therapeutics	TCR T cell therapies	Solid tumors	Phasel	\$200mm upfront cash for equity + \$120mm milestones
Sep 2022	Collaboration and license agreement	Arsenal Bio, Genentech	Screening and T cell engineering tools	Solid Tumours	Preclinical	\$70mm upfront cash payment + milestones and royalties
Aug 2022	Strategic global collaboration	Poseida Therapeutics, Roche	Allogeneic CAR T cell therapies	B cell malignancies	Preclinical	\$110mm upfront cash payment + milestones and royalties Potentially worth \$6B+
Jan 2022	Strategic collaboration	Century Therapeutics, Bristol Myers Squibb	iPSC-derived allogeneic NK and T cell therapies	Hematologic malignancies and solid tumors	Preclinical	\$150mm upfront cash (\$50mm for equity) + milestones and royalties <i>Potentially worth \$3B+</i>
Sep 2021	Strategic collaboration	Adaptimmune, Genentech	iPSC-derived allogeneic T cell therapies	Oncology indications	Preclinical	\$150mm upfront cash payment + milestones and royalties Potentially worth \$3B+
Jan 2021	Discovery collaboration	Arsenal Bio, Bristol Myers Squibb	Anti-CA215 CAR-T cell therapy	Solid tumors	Preclinical	\$70mm upfront cash payment + milestones and royalties



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