



Extraordinary General Meeting

May

2024



Arovella's strengths

Off-the-Shelf iNKT Cell Platform

Developing off-the-shelf iNKT cell therapies to target blood cancers and solid tumour cancers

Lead Product Advancing to Clinic

ALA-101, potential treatment for CD19-expressing blood cancers, progressing to Phase 1 clinical trials, expected to commence in 2024

Addressing Key Unmet Need

Our iNKT cell platform is well positioned to solve key challenges that hamper the cell therapy sector

Strategic Acquisitions

Focused on acquiring innovative technologies that strengthen its cell therapy platform and align with its focus areas

Strong Leadership Group

Leadership team and Board have proven experience in drug development, particularly cell therapies

Unique Value Proposition

Arovella is among few companies globally developing an iNKT cell therapy platform

Financial overview

Financial Snapshot

ASX CODE	ALA
Market capitalisation ¹	\$115.5 million
Shares on issue	1,050.1 million
52-week low / high ¹	\$0.042 / \$0.185
Cash Balance (Mar 31 2024) ²	\$15.31 million

Major Shareholders

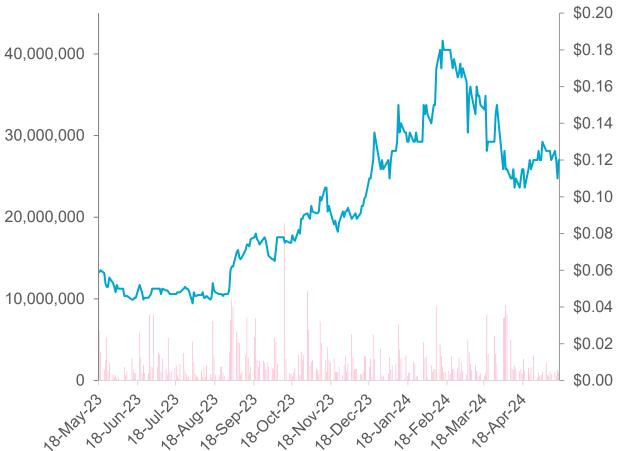
Shareholder	Ownership (%) ¹
RICHARD JOHN MANN	64,458, 288 (6.17%)
MERCHANT FUNDS MANAGEMENT	62,996,544 (6.03%)
MB INVESTMENT CAPITAL PTY LTD	26,087,615 (2.50%)
UBS NOMINEES PTY LTD	25,620,196 (2.45%)
MR JAMES EVAN HUGHES-MORRIS	21,769,196 (2.08%)

1. As of 17 May 2024

ASX:ALA

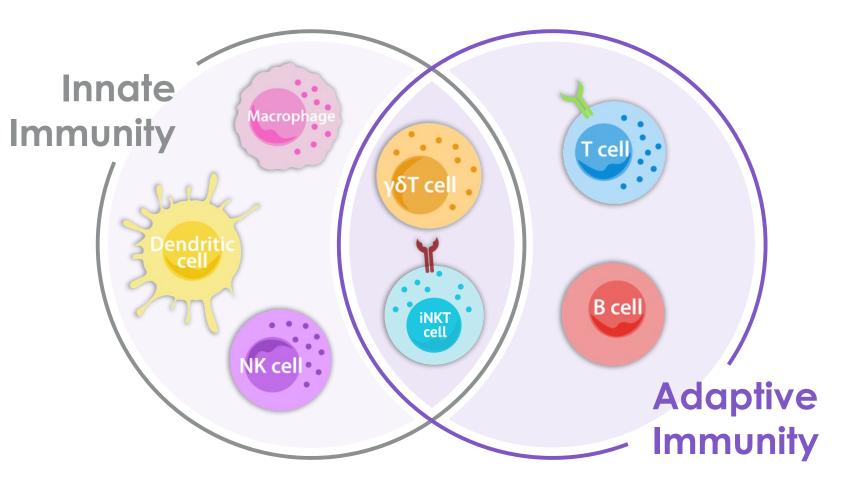
2. Includes the proceeds of the Placement announced 26 March 2024

ALA Price and Volume - 12 Months¹



Introducing invariant Natural Killer T (iNKT) cells

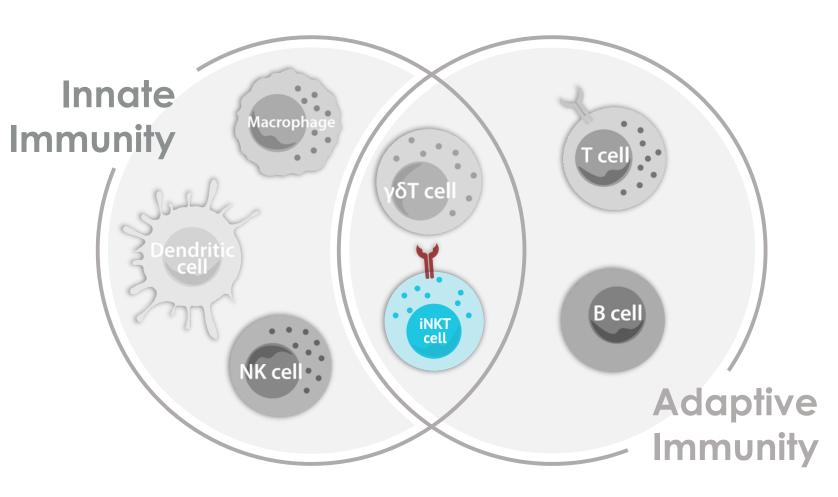
Bridging the innate and adaptive immune system





iNKT cells represent a next-generation cell therapy

Properties make them ideal for use in cell therapy



Strong safety profile

 Don't cause graft versus host disease (GvHD)

Front line of the human immune system

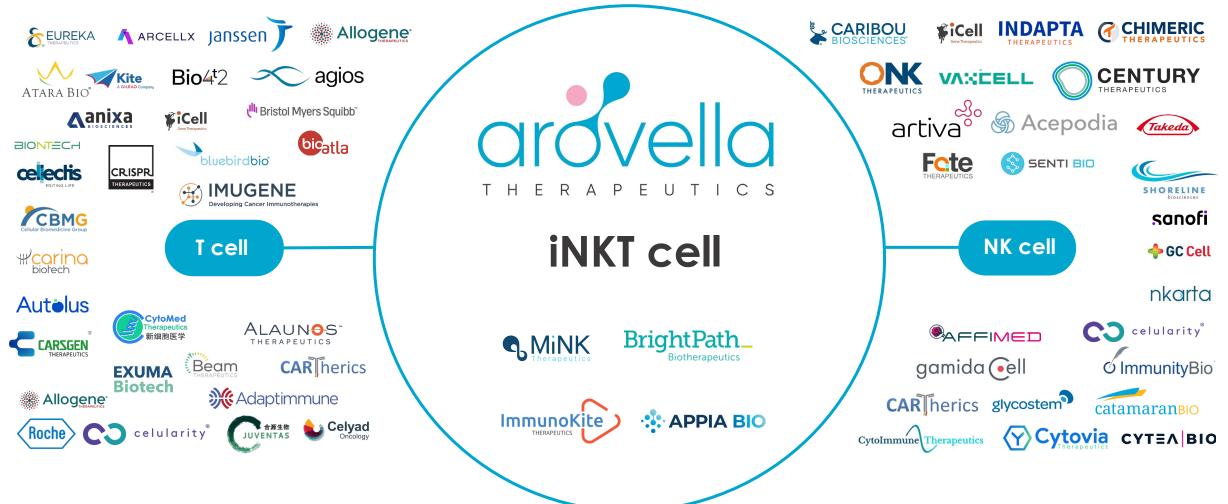
- Bridge innate & adaptive immune responses
- Contain both T cell & NK cell killing mechanisms
- Naturally target & kill cancers that express CD1d

Multiple anti-cancer properties

- Shape the tumour microenvironment by blocking/killing pro tumour cells (TAMs/MDSCs)
- Infiltrate tumours & secrete signaling molecules to activate other immune cells to kill tumour cells

A differentiated position

T cell and NK cell sectors are competitive



Companies with T cell, NK cell, or iNKT cell therapy programs. Source: Company analysis based on public information

Arovella's iNKT cell strategy

Incorporating world class IP to target a range of tumour types

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Foundation IP Unique process to transduce iNKT cells with a CAR and expand CAR-iNKT cells (licenced from Imperial College London) Armouring technology Complementary technologies that improve the activity or persistence of iNKT cells (eg cytokine technology from UNC) Novel CARs Unique moieties for targeting different cancers (eg CLDN18.2 mAb licenced from Sparx) **Regulatory** strategy 12-year marketing exclusivity as a novel biologic drug, Orphan Drug Designation, Fast Track Designation, Paediatric Extension Know-How Process-specific

know-how and Trade Secrets

Exclusive worldwide rights to granted patents

Further patent claims and applications actively being pursued



Transduction and Expansion of Cells

- Patent life until 2038
- Method of manufacture, cell population claims
- Applicant: Imperial College of Science Technology and Medicine
- Granted in Europe, Canada, Hong Kong, and pending in the US, China and Australia
- Worldwide exclusive rights for human disease

(12) P a		l States t Application Publicat ^{1.}	ion		Pub. No.: US 2020 Pub. Date:	0/0207857 A1 Jul. 2, 2020
CI M TI	LAUDIN ETHOD	MOLECULES SPECIFIC FOR I 18.2, COMPOSITIONS AND S THEREOF, FOR THE ENT OF CANCER AND OTHER S	(52)		Cl. (2013.01); C07K 16/2827 (2 (2013.01); C07K 2317/ 2317/54 (2013.01); C07 C07K 2317/622 (2013 (2013.01); C07K 2317/	515 (2013.01); C071 K 2317/51 (2013.01) .01); C07K 2317/73
(71) Aj		Sparx Therapeutics Inc., Mt. Prospect, IL (US)		1	(2013.01); C0/K 231// 2015/8518 (2013.01); C07	
(72) In		Guidong Zhu, Gurnee, IL (US); Jingdong Ye, Vernon Hills, IL (US); Jingdong Qin, Woodridge, IL (US); Jichun Ma, Germantown, MD (US)			ABSTRACT as and methods of making an antibodies) or antig	
(73) As		Sparx Therapeutics Inc., Mt. Prospect, IL (US)	there disea	of usefi ses as	ul as therapeutics for treat sociated with cells exp	ing and/or pre-lenti- pressing cl
21) Aj	ppl. No.:	16/727,554			imor-related diseases suc cancer, pancreatic cancer,	
(22) Fi	led: Reli	Dec. 26, 2019	cance	er of the	n cancer, hepatic cancer, h e gallbladder are describe cal formulations comprisi	d. Also, described yr

- Binding Molecules Specific for Claudin 18.2
- Patent life until 2038
- Composition of matter claims for a unique CLDN18.2 monoclonal antibody sequence
- Applicant: Sparx Therapeutics Inc.
- Granted in USA, pending in Europe, China, Japan and South Korea
- Worldwide exclusive rights for use in Cell Therapies

						Upfront	Milestones	Total deal	
Date	Type of deal	Acquirer/Licensee	Target/Licensor	Cell Type	Stage	(US\$M)	(US\$M)	value (US\$M)	
May-24	Research collaboration	🔺 Хүрноз	THERAPEUTICS	T cell	TBD	\$50	\$550	\$600	
Dec-23	Acquisition	AstraZeneca	GRACELL	T Cell	Phase 1b	\$1,000	\$200	\$1,200	
Nov-23	Collaboration and investment ²	AstraZeneca	celectis	Not specified	Platform	\$25	\$70-220 per product		
Aug-23	Licence ³			T Cell	Phase 1b	\$21	\$206	\$227	
Aug-23	Strategic investment (ROFR) ⁴	X astellas	THERAPEUTICS	T Cell	Phase 1	\$25	\$O	\$25	
May-23	Licence	Janssen 🕇		T Cell	Phase 1b	\$245	undisclosed		
Jan-23	Acquisition	AstraZeneca	neogene	T Cell	Phase 1	\$200	\$120	\$320	
Oct-22	Development collaboration ⁵	🧭 GILEAD	🔨 ARCELLX	T Cell	Phase 2	\$225	undisclosed		
Sep-22	Research collaboration	Genentech A Member of the Roche Group	-ArsenalBio	T Cell	Preclinical	\$70	undisclosed		
Aug-22	Licence & strategic collaboration	Roche	THERAPEUTICS	T Cell	Phase 1	\$110	\$110	\$220	
Sep-21	Development collaboration	Genentech A Member of the Roche Group	X Adaptimmune	T Cell	Preclinical	\$150	\$150	\$300	
Aug-21	Research collaboration	🚺 GILEAD		iNKT Cell	Preclinical	undisclosed	undisclosed	\$875	
May-21	Acquisition	Athenex	Kuur THERAPEUTICS	iNKT Cell	Phase 1	\$70	\$115	\$185	
Jun-21	Acquisition	eterna	X Novellus	Multiple	Preclinical	\$125	\$O	\$125	

Recent cell therapy transactions¹

- 1. See the last slide for deal references
- 2. Cellectis will receive a US\$220m equity investment from Astra Zeneca plus tiered royalties. Milestones are payable for 10 products
- 3. Precision is eligible for double digit royalties on net sales and \$145 million in milestone payments and tiered royalties for additional programs
- 4. Poseida also received a US\$25m equity investment from Astellas
- 5. Arcellx also received a US\$100m equity investment from Gilead

Arovella's expanding pipeline



PRODUCT	INDICATION	DISCOVERY PRECLINICAL PHASE 1
ALA-101 (CAR19-iNKT)	CD19 Expressing cancers	CD19 Expressing Lymphoma
ALA-105 (CLDN18.2-iNKT)	CLDN18.2 positive solid tumours	Gastric & Pancreatic Cancers
IL-12-TM	Solid Tumours	Solid Tumours

Upcom anuary 2024	ir		July 2024	Commence Phase 1 for ALA-101 targeting CD19+	December 2024	
ALA-101 (CD19)	•	Complete preparatory activities for Phase 1 study, including preparation of regulatory dossier, engagement with clinical sites and KOLs		lymphoma and leukemia		
ALA-105 (CLDN18.2)	•	Initiate proof-of-concept testing for CLDN18.2-iNKT cells to expand iNKT platform for treatment of solid tumours Optimise the CAR construct for robust efficacy		Generate animal data for CLDN18.2 targeting CAR-iN cells against gastric cancer and/or pancreatic cancer Commence activities to manufacture ALA-105 for clin (e.g. lentiviral vector)		
IL-12-TM Integration	 Integrate IL-12-TM into solid tumour programs and test its efficacy in anti-tumour models Enter into a Sponsored Research Agreement (SRA) with Professor Gianpietro Dotti's research group 					



Expect to advance ALA-101 to Phase 1 first-in-human clinical trial during 2024 Dose escalation Phase 1 study in patients with CD19+ blood cancers

cGMP – Current Good Manufacturing Practice; KOLs – key opinion leaders



THERAPEUTICS

Thank You

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Cell therapy deal references

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