

KAZIA
THERAPEUTICS



Presentation to Bell Potter Healthcare Coference

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Chief Executive Officer

Sydney, NSW
10 November 2021

Forward-Looking Statements

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Company Overview

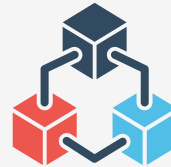
An oncology drug-development company



Lead Program in Phase III for Glioblastoma

Paxalisib

- Under development for glioblastoma, most common and aggressive form of brain cancer
- International phase III underway
- Developed by Genentech, Inc
- US\$ 1.5 billion target market
- Eight further studies ongoing across various forms of brain cancer
- Commercial partnership in place with Simcere Pharmaceutical for Greater China region



Diversified Clinical-Stage Pipeline

EVT801

- Under development for advanced cancer (lung, liver, kidney, and other cancers are future targets)
- Phase I study underway in France
- Developed by Sanofi and Evotec SE
- Targets lymphangiogenesis, and shows preclinical evidence of synergy with immuno-oncology therapies



Strong Corporate Fundamentals

- Listed on ASX (KZA) and on NASDAQ (KZIA)
- ~AU\$ 200 million market cap.
- Cash position @ 30 Sept 2021: ~AU\$ 19.6 million
- Lean operating model, with ~75% of cashflow devoted directly to clinical trials
- Multiple fundamental-driven institutional investors on registry

2021 in Review

A Year of Achievements

3

Major cross-border
licensing deals in
FY2021

\$15M

Revenue in FY2021

11

Ongoing clinical
studies across two
clinical programs

179%

Total shareholder
return (TSR)
(Jul 20 to Jun 21)

Phase III

Paxalisib pivotal
study commenced
in Jan '21

3

New paxalisib trial
partnerships
executed in FY2021

>200

Patients now
treated with
paxalisib

Phase I

EVT801
commenced human
trials in Nov 2021

Pipeline

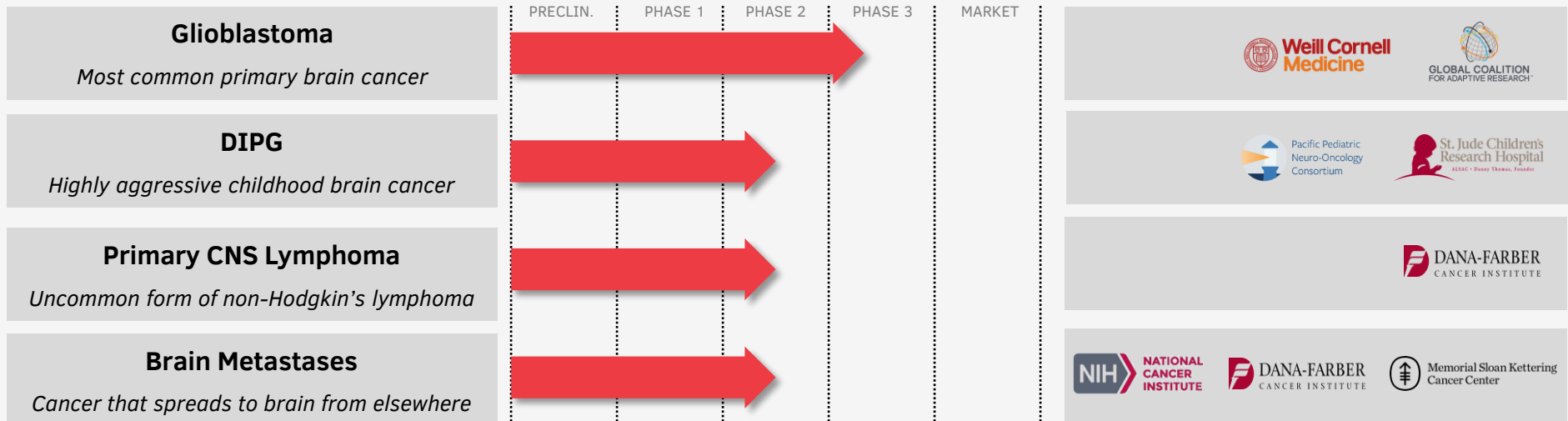
Two world-class assets in clinical trials by end CY2021

Paxalisib (GDC-0084)

Small molecule, brain-penetrant inhibitor of PI3K / mTOR

licensed from:

Genentech
IN BUSINESS FOR LIFE



EVT801

Small molecule inhibitor of VEGFR3

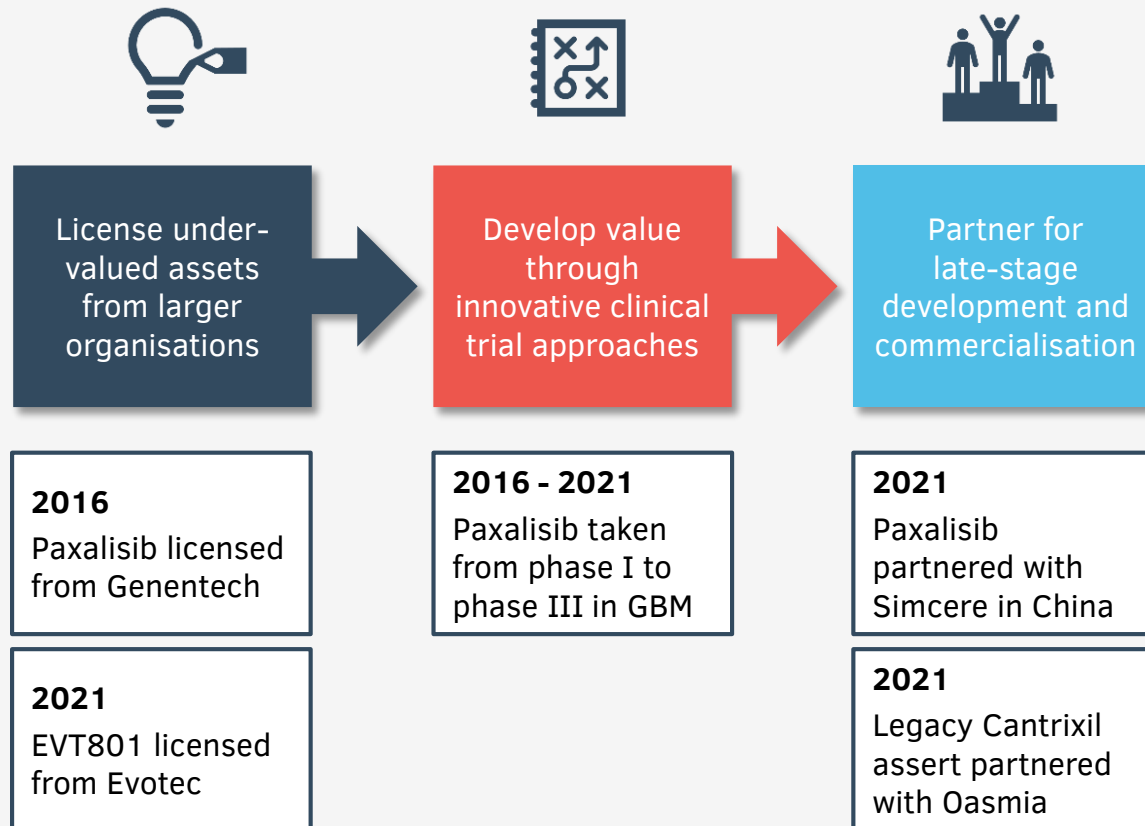
licensed from:

evotec



Operating Model

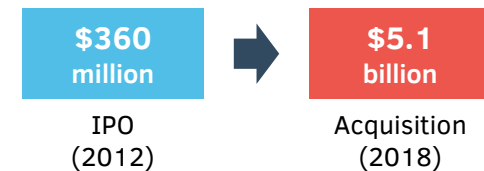
In-licensing advanced assets drives earlier value realization



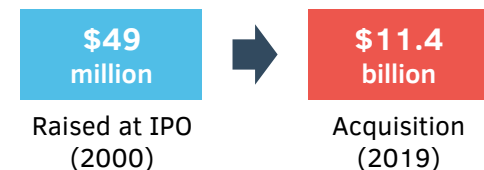
A Proven Strategy



Jun 2010 – licensed niraparib from Merck
Mar 2017 – Zejula® (niraparib) approved by FDA
Dec 2018 – Tesaro acquired by GSK

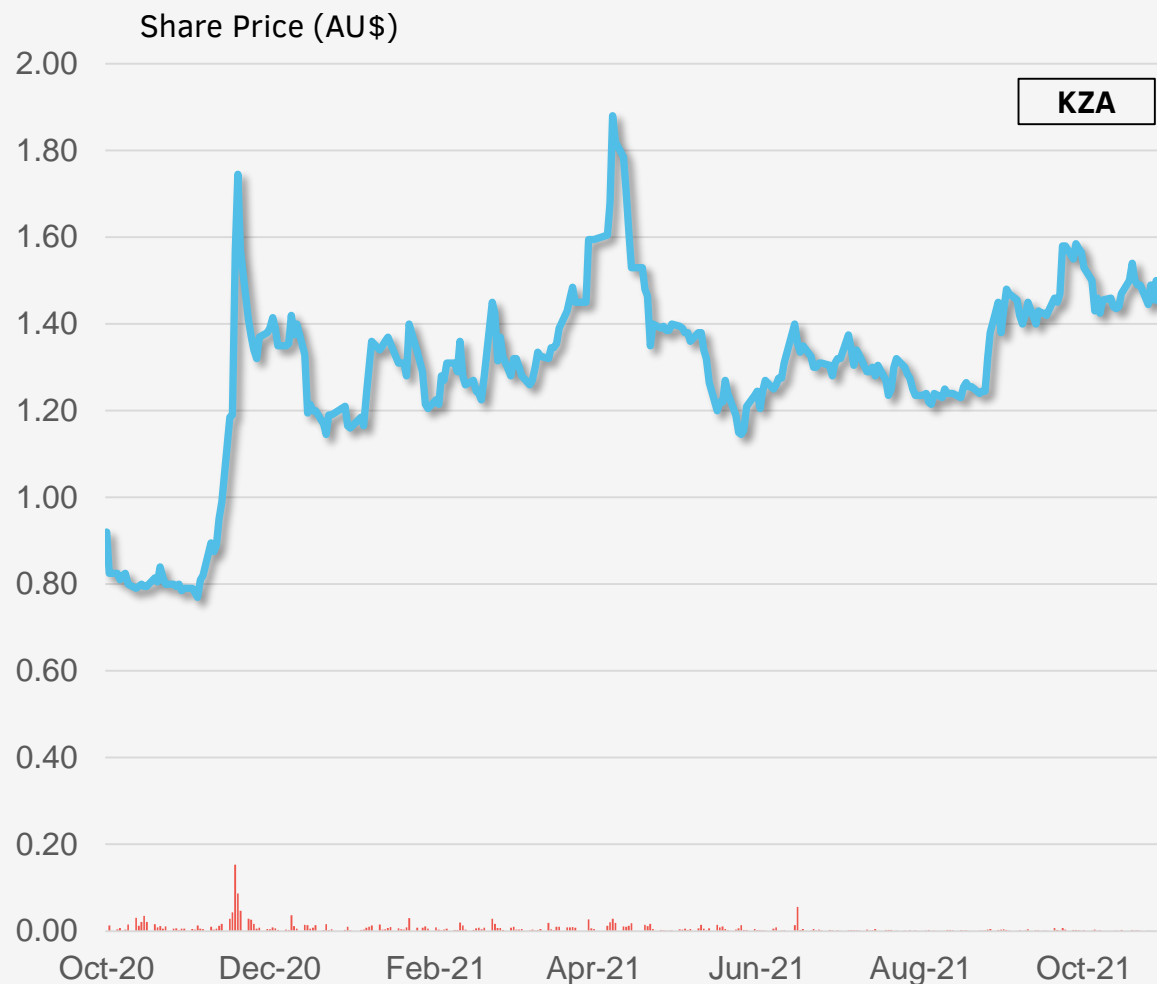


Dec 2014 – reclaims binimetinib from Novartis
Sep 2017 – licenses encorafenib from Novartis
Jun 2018 – combination approved by FDA



Financial Metrics

Value-driving news flow for investors



Market Capitalisation	AU\$ 200M
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Listing

ASX (primary)	KZA
NASDAQ (ADSS @ 1:10 ratio)	KZIA
Shares on Issue	130M

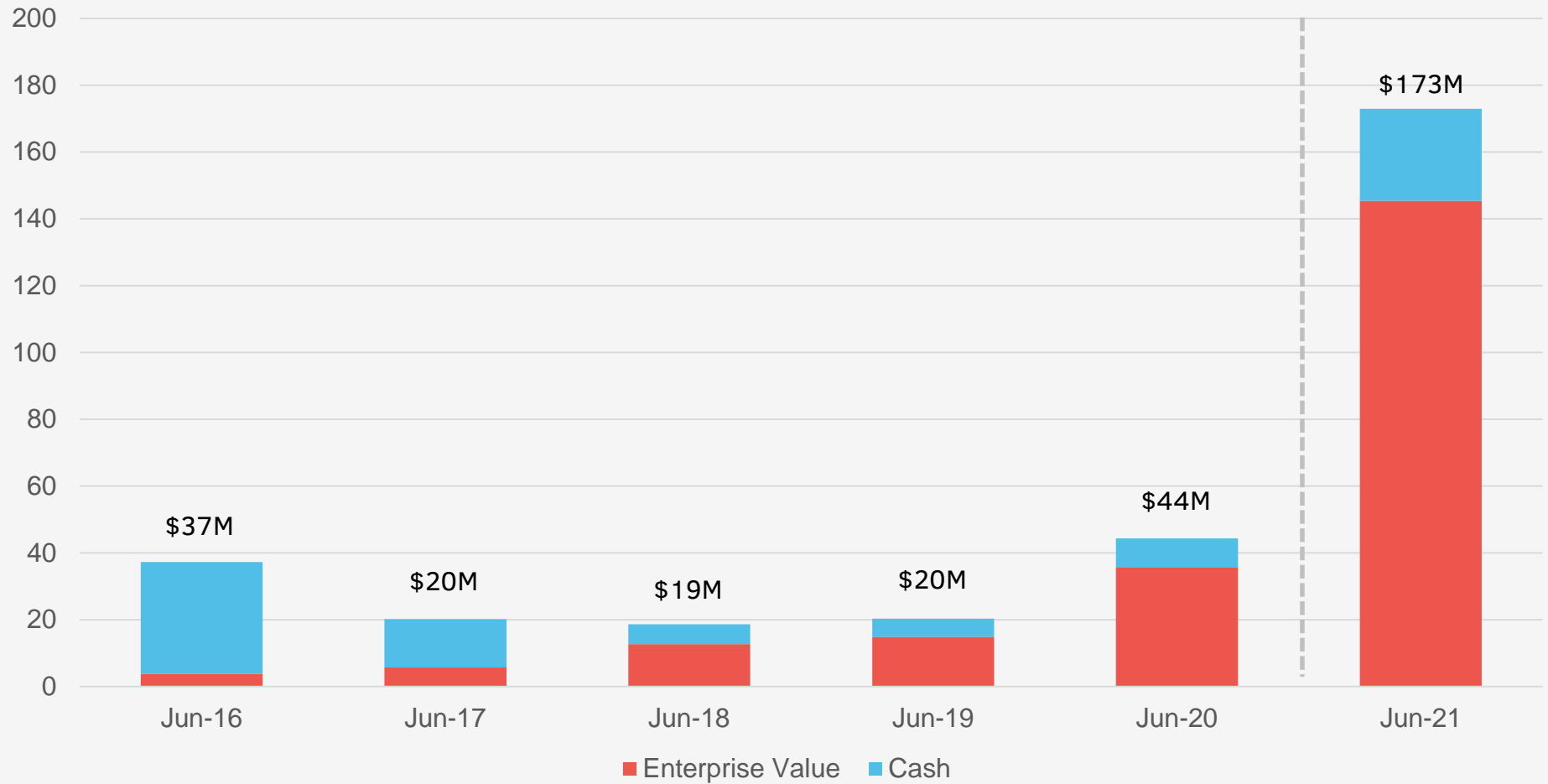
Balance Sheet	AU\$
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Cash (at 30 Jun 21)	\$19.6M
Monthly Burn Rate	~\$1.25M

Substantial Shareholders

Willoughby Capital	16%
Quest Asset Partners	9%
Platinum Asset Management	6%
Board and Management	2%

Kazia's enterprise value has increased by approximately 37x in the last five years



Source: Company Annual Reports; Marketwatch

CY2021 Milestones and Newsflow

Multiple catalysts across two clinical programs

Commence of recruitment to GBM AGILE pivotal study for paxalisib	January 2021	✓
Out-license of Cantrixil legacy asset to Oasmia Pharmaceutical	March 2021	✓
Partnership for paxalisib in Greater China with Simcere Pharmaceutical	March 2021	✓
Paxalisib interim phase II glioblastoma data at AACR Annual Meeting	April 2021	✓
Global in-license of EVT801 from Evotec SE	April 2021	✓
Commence recruitment to paxalisib phase II PCNSL study at Dana-Farber	June 2021	✓
Commence recruitment to PNOC paxalisib combination study in DIPG	2H CY2021	
Initial interim data from paxalisib phase II BCBM trial at Dana-Farber	2H CY2021	
Initial interim data from paxalisib phase II brain mets study by Alliance Group	2H CY2021	
Initial interim data from paxalisib phase I brain mets study at Sloan-Kettering	2H CY2021	
Final data from paxalisib phase II glioblastoma trial	2H CY2021	
<i>Commence recruitment to EVT801 phase I trial</i>	<i>Nov 2021</i>	✓

Italics – updated guidance

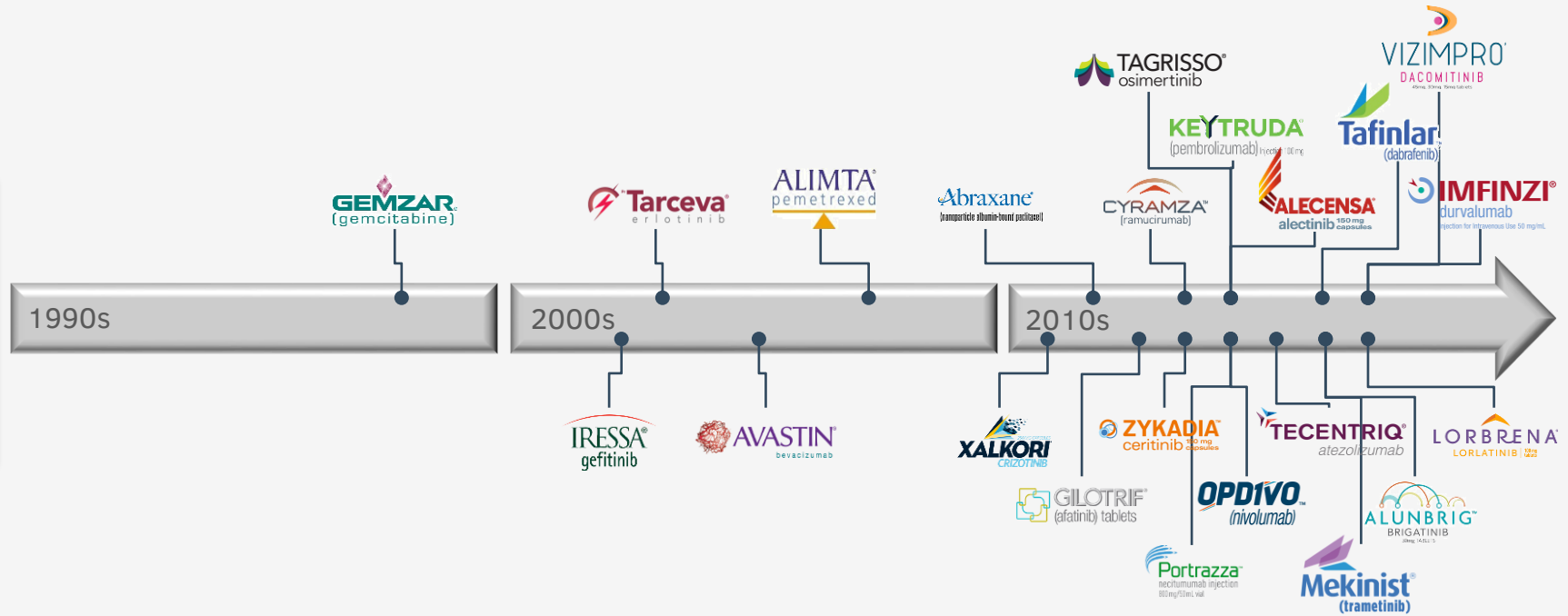
Note: all guidance is indicative, and subject to amendment in light of changing conference schedules, operational considerations, etc.

Paxalisib

Brain Cancer
Phase III

Treatment of brain cancer has improved little in recent decades, unlike other cancers

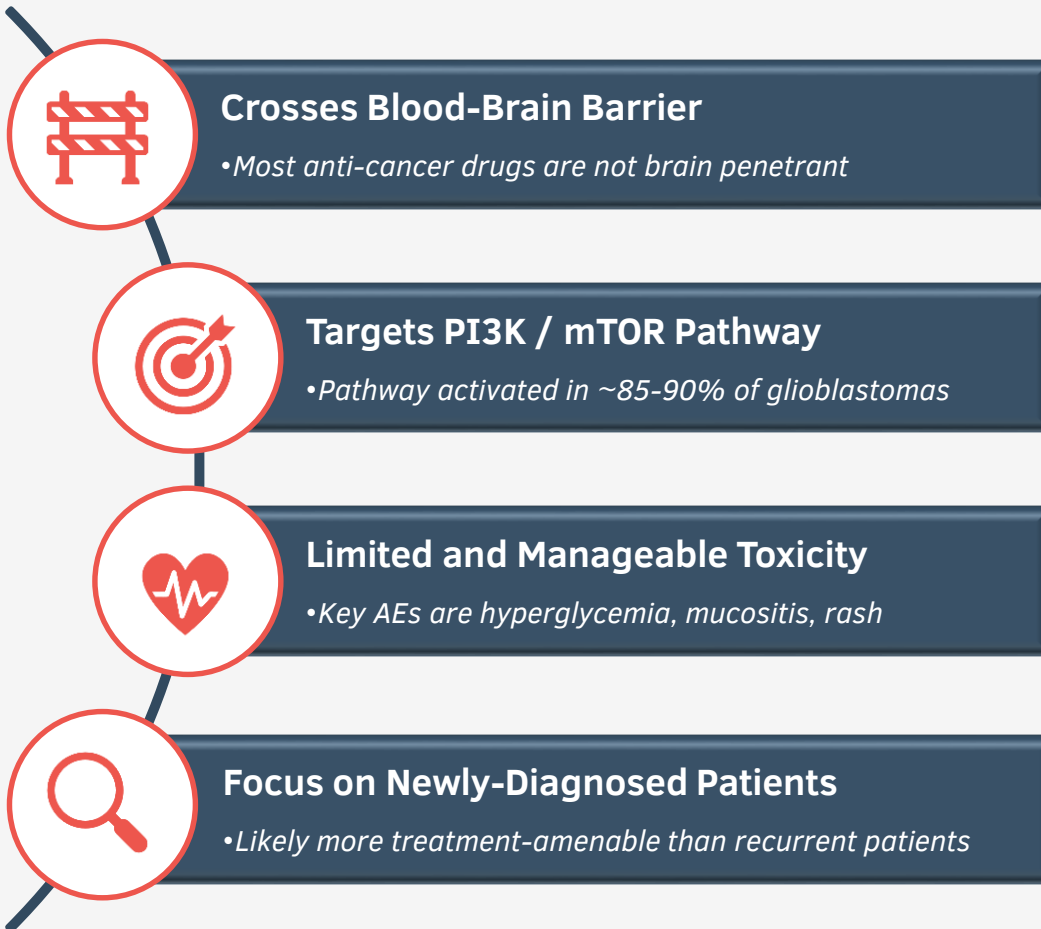
Lung Cancer



Brain Cancer (glioblastoma)



Paxalisib was designed specifically to overcome key challenges in the treatment of brain cancer



Oral Presentation

15mg capsule, taken once daily; no significant food effect

Strong IP Protection

Composition-of-matter to 2031 in most jurisdictions

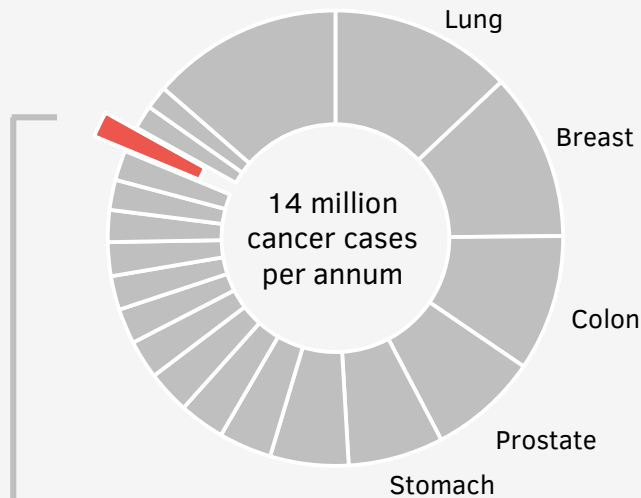
Low Cost of Goods

Straightforward manufacture with excellent stability at controlled ambient

Limited Potential for Interactions

Has been successfully combined with other targeted therapies and RTx

Glioblastoma (GBM) is the most common and most aggressive form of primary brain cancer



Glioblastoma Multiforme

133,000 cases per annum worldwide

Indicative Market Opportunity

US\$ 1.5 billion

No clear cause

or strong risk factors

Any age, but most common in

60s

No clear improvement in prognosis for

20 years

3-4 months

untreated survival

12-15 months

average survival with treatment

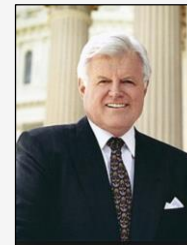
Five-year survival

3 – 5%

(breast cancer: 90%)



Sen. John McCain



Sen. Ted Kennedy



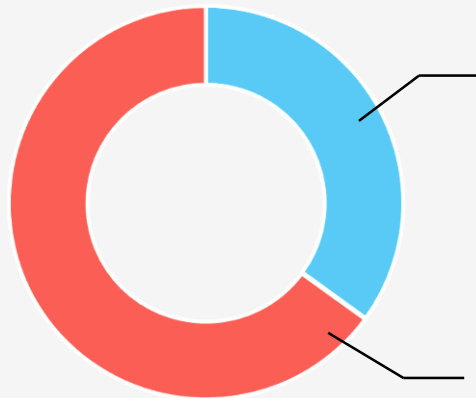
Beau Biden



Dan Case

Temozolomide is only FDA-approved drug for GBM; it is ineffective in ~65% of cases

Standard of Care ('Stupp Regimen')



~35% of patients respond to temozolomide

Extends overall survival from 15 to 22 months

~65% of patients don't respond to temozolomide

Extends overall survival from 12 to 13 months



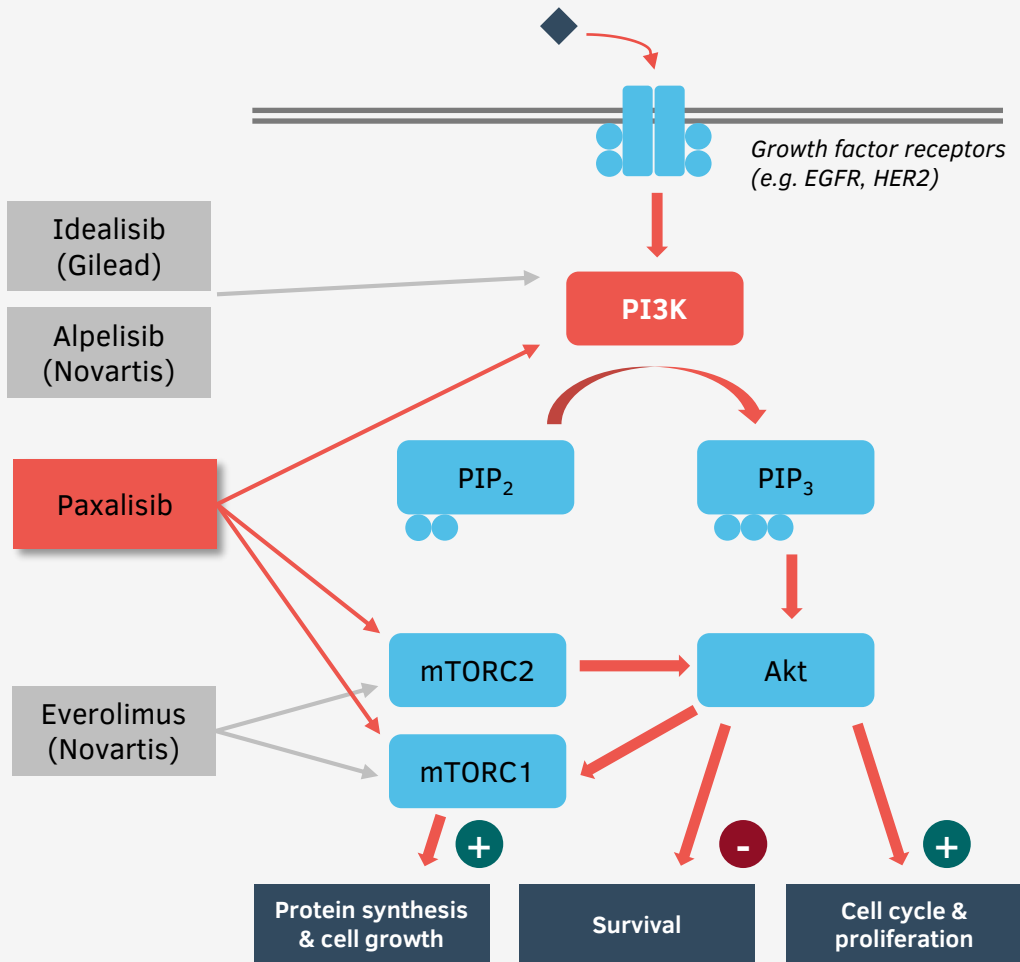
Paxalisib is being developed primarily for the ~65% of newly-diagnosed GBM patients who will not respond to existing chemotherapy with temozolomide

For these patients, there is no effective pharmacological treatment currently available

Source: ME Hegi, A-C Diserens, T Gorlia, et al. (2005). *N Engl J Med* 352:997-1003

Note: Temozolomide is only approved therapy for newly-diagnosed patients; Avastin (bevacizumab) is approved for use in recurrent setting

The PI3K / Akt / mTOR pathway is a critical signalling mechanism for many tumor types



Comparative Potency vs Other PI3K Inhibitors

	IC ₅₀ (nM)				
	p110 α	p110 β	p110 γ	p110 δ	mTORC 1/2
Paxalisib	2	46	10	3	70
Idelalisib	820	565	89	2.5	>1,000
Alpelisib	5	1200	250	290	>9,100
Buparlisib	52	166	262	116	4,600
Pilaralisib	39	383	23	36	>15,000
Taselisib	0.3	9.1	1.0	0.1	1,200
Pictilisib	3	33	75	3	580

Note: lower IC₅₀ implies more potent activity

Source: HF Zhao et al. (2017) *Molecular Cancer*. 16:100

The PI3K inhibitor class is well-established, but paxalisib is unique in its ability to cross the blood-brain barrier



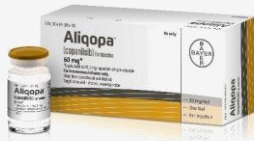
Zydelig
(idelalisib)



FDA Approved
July 2014
(blood cancers)



Aliqopa
(copanlisib)



FDA Approved
September 2017
(blood cancers)



Copiktra
(duvelisib)



FDA Approved
October 2018
(blood cancers)



Piqray
(alpelisib)



FDA Approved
May 2019
(breast cancer)



Ukoniq
(umbralisib)



FDA Approved
February 2021
(blood cancers)



paxalisib



In pivotal study for
FDA Approval in
glioblastoma

*Crosses
Blood-
Brain
Barrier*



Safety

Potentially fatal
liver toxicity and
diarrhoea

Potentially fatal
infections

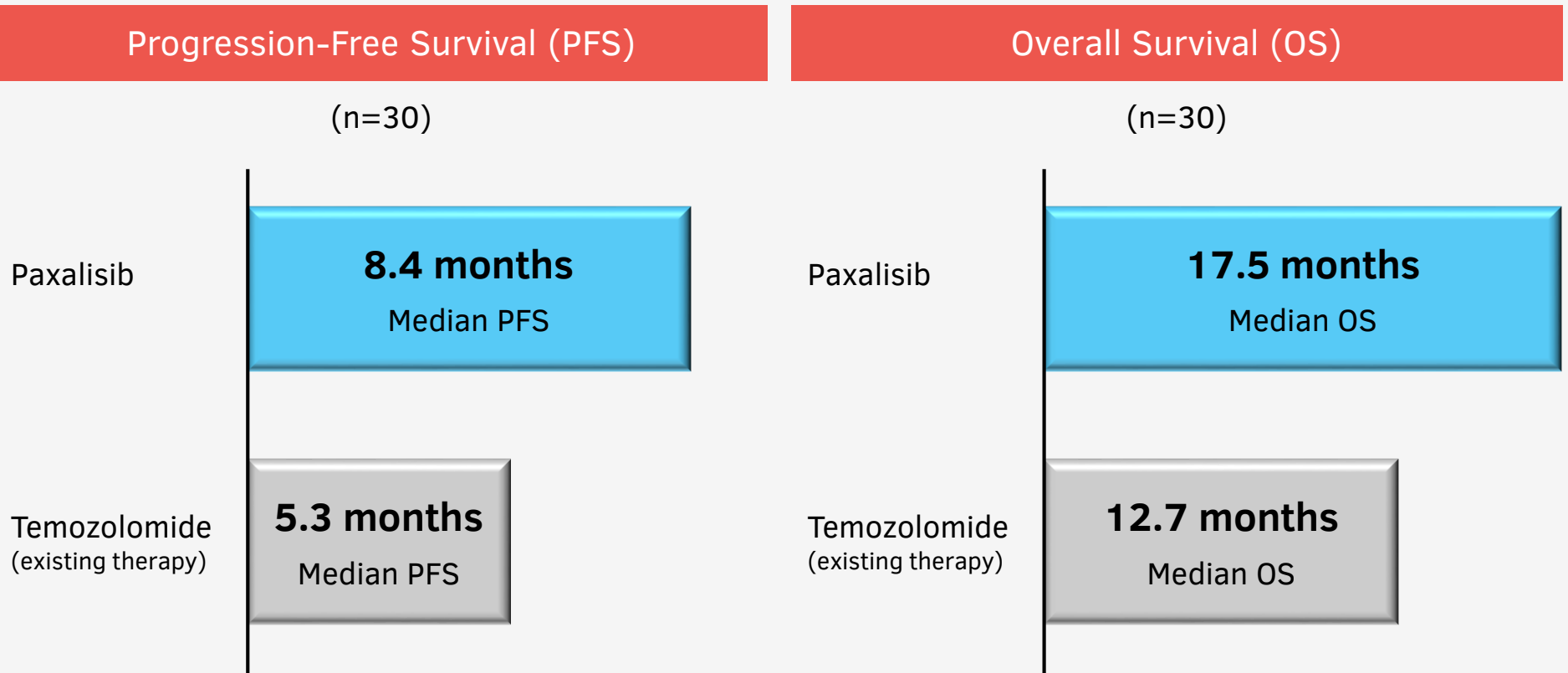
Potentially fatal
infections and
diarrhoea

Modest toxicities to
date

Serious infections,
hepatotoxicity, and
diarrhoea

Modest toxicities to
date

Latest phase II data compares well to historical data for temozolomide (existing standard of care)



Presented at Society for Neuro-Oncology Annual Meeting, November 2020

Note: figures for existing therapy are for temozolomide, per Hegi et al. (2005); comparison between different studies is never perfectly like-for-like










Toxicities are generally mild to moderate, entirely reversible, and manageable with readily-available therapies

Number of Patients at 60mg (n=24) Experiencing AEs 'Possibly' or 'Likely' Related to Paxalisib (affecting ≥ 2 patients)

Term	Gr 1	Gr 2	Gr 3	Gr 4	Total (%)
Rash	4	6	7		17 (71%)
Fatigue	2	10	2		14 (58%)
Stomatitis	4	6	1		11 (46%)
Decreased appetite	5	5	1		11 (46%)
Nausea	3	5	1		9 (38%)
Hyperglycemia	1	2	5		8 (33%)
Diarrhea	5	1			6 (25%)
Decreased neutrophils	2	3		1	6 (25%)
Vomiting	3	2	1		6 (25%)
Decreased weight	3	2			5 (21%)
Decreased platelets	4	1			5 (21%)
Dehydration		4	1		5 (21%)
Dysgeusia		4			4 (17%)
Decr. lymphocytes	1	2			3 (13%)
Drug reaction			3		3 (13%)
Malaise	2	1			3 (18%)
Incr. cholesterol	2				2 (8%)
Pruritis	1		1		2 (8%)

Presented at Society for Neuro-Oncology Annual Meeting, November 2020

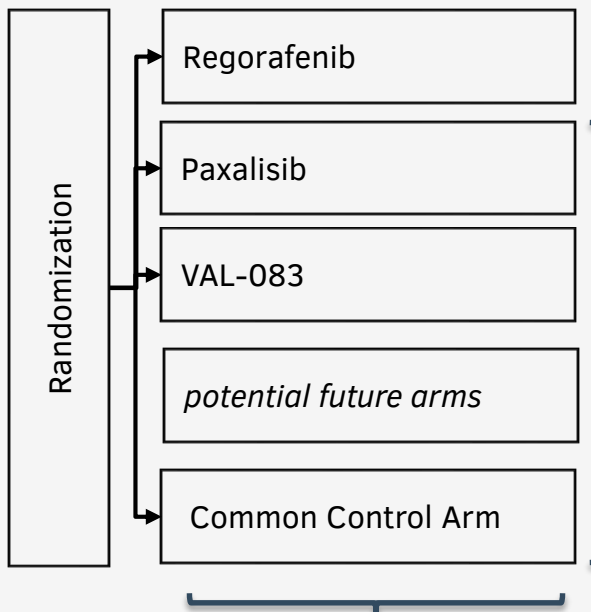
Nine clinical studies are active across multiple forms of brain cancer

Registration	Indication	Phase	N	Status	Sponsor
Primary Brain Cancer					
NCT03522298	Glioblastoma	II	30	Follow-up	 KAZIA THERAPEUTICS
TBD	Glioblastoma (combination with ketogenic diet)	II	33-60	Start-up	 Weill Cornell Medicine
NCT03970447	Glioblastoma (GBM AGILE)	II / III	Up to 200 on paxalisib	Recruiting	 GLOBAL COALITION FOR ADAPTIVE RESEARCH [®]
NCT03696355	DIPG and DMGs	I	27	Follow-up	 St. Jude Children's Research Hospital <small>ALSAC • Danny Thomas, Founder</small>
TBD	DIPG and DMGs	II	TBD	Start-up	 Pacific Pediatric Neuro-Oncology Consortium
NCT04906096	Primary CNS Lymphoma	II	25	Recruiting	 DANA-FARBER CANCER INSTITUTE
Secondary (Metastatic) Brain Cancer					
NCT04192981	Brain Metastases (combination with radiotherapy)	I	Up to 36	Recruiting	 Memorial Sloan Kettering Cancer Center
NCT03765983	Breast Cancer Brain Metastases (combination with trastuzumab)	II	Up to 47	Recruiting	 DANA-FARBER CANCER INSTITUTE
NCT03994796	Brain Metastases (‘Alliance’ multi-drug study)	II	50	Recruiting	 NIH NATIONAL CANCER INSTITUTE

GBM AGILE international pivotal study is underway, and is expected to provide the basis for regulatory approval

Key Points

- A 'platform study', run independently of individual companies, designed to expedite the approval of new drugs for glioblastoma
- Multiple drugs are evaluated in parallel, saving time and money
- Not a 'winner-takes-all' approach: multiple drugs can succeed
- Cutting-edge 'adaptive design' avoids redundant recruitment, expediting path to market
- Strong support from FDA and key opinion leaders



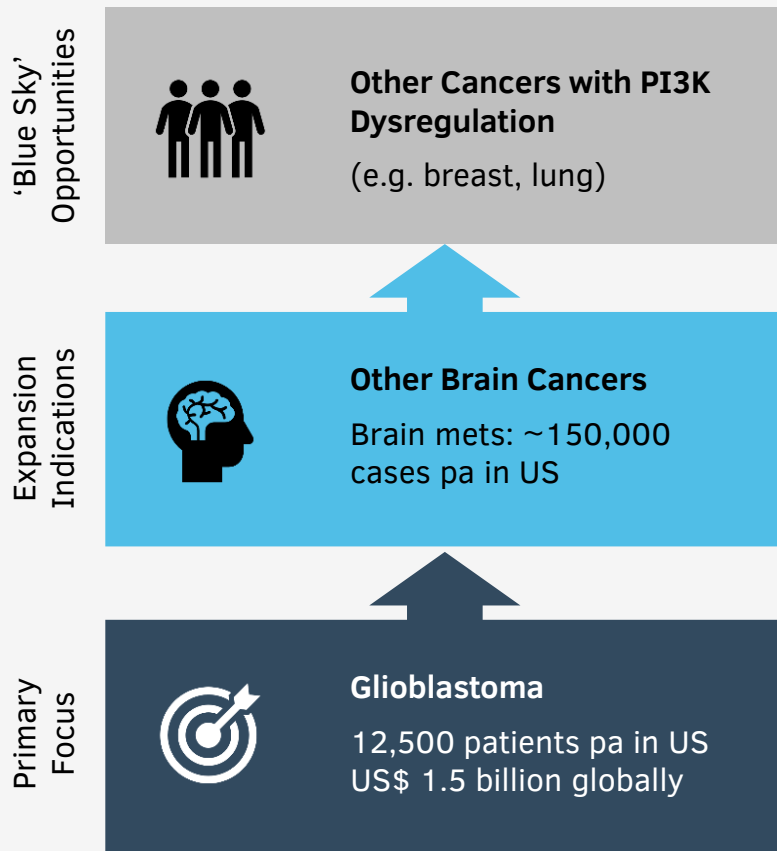
1 Adaptive study design limits number of subjects to that required to demonstrate efficacy, eliminating redundancy

2 Comparison against a common control arm reduces overall subject numbers, saving time and cost (no drug vs. drug comparison)

3 Economies of scale due to multiple participating drugs allows for large site pool, robust study infrastructure, and reduced cost

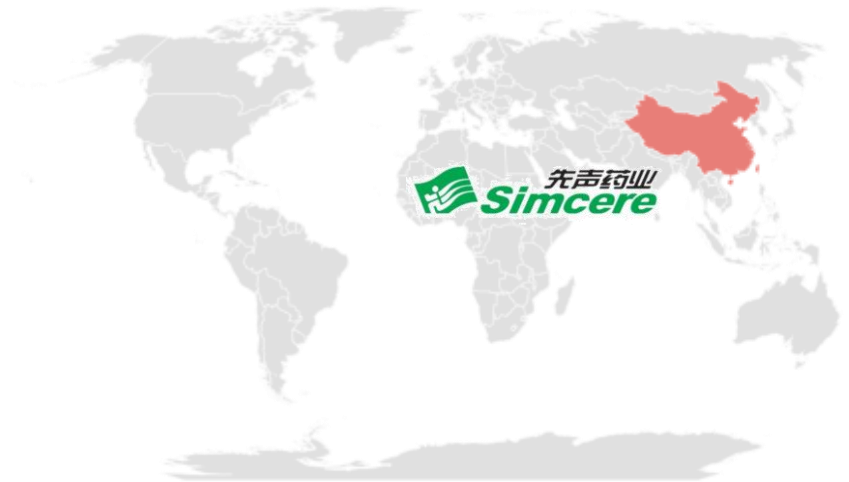
4 Primary endpoint is overall survival (OS), the 'gold standard' for approval of new cancer drugs

Commercial opportunity is substantial, with one commercial partnership already in place



Partnership with Sincere Pharmaceutical for Greater China signed in March 2021

Sincere will develop and commercialise paxalisib for a territory comprising > 1.2 billion people and ~10% of the global pharmaceutical market

















Key Points

- 1 Well-understood mechanism (PI3K inhibition) but unique differentiating feature (brain penetration)
- 2 Positive phase II data in glioblastoma, supported by very strong preclinical package and positive phase I data
- 3 Fully-funded international registration study underway with support of FDA and leading clinicians
- 4 Broad trial program underway with world-class centres in other forms of brain cancer; de-risks lead indication
- 5 Targeting a US\$ 1.5B market for glioblastoma alone, with limited competition and very high unmet-need

EVT801

Solid Tumors
Pre-Phase I

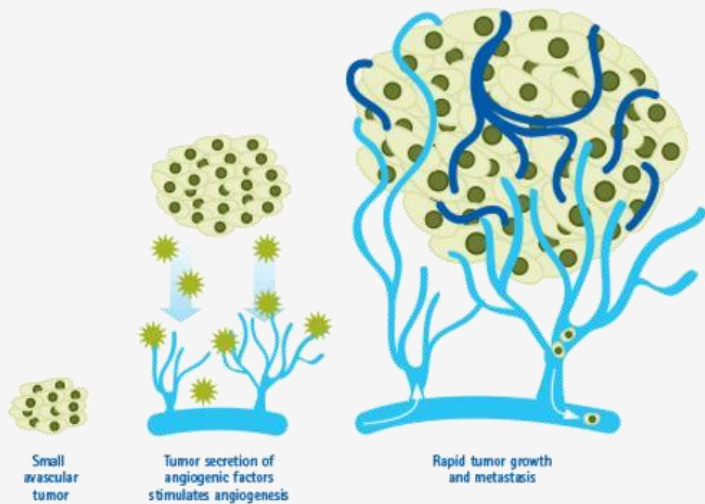
Targeting angiogenesis is a well-established approach in the treatment of cancer

Product	Company	Target	Indications	Annual Sales (US\$)*
		VEGF-A	<ul style="list-style-type: none"> • Colorectal cancer • Lung cancer • Breast cancer 	\$7 billion
		VEGFR PDGFR RAF kinases	<ul style="list-style-type: none"> • Hepatocellular carcinoma • Renal cell carcinoma • Thyroid cancer 	\$1 billion
		VEGFR PDGFR	<ul style="list-style-type: none"> • Renal cell carcinoma • Gasto-intestinal stromal tumor 	\$750 million
		VEGFR PDGFR c-Kit	<ul style="list-style-type: none"> • Renal cell carcinoma • Soft tissue sarcoma 	\$1 billion
		VEGFR c-Kit PDGFR	<ul style="list-style-type: none"> • Renal cell carcinoma 	\$400 million
		VEGFR	<ul style="list-style-type: none"> • Renal cell carcinoma • Hepatocellular carcinoma • Endometrial carcinoma 	\$300 million
		c-Met VEGFR2 RET	<ul style="list-style-type: none"> • Renal cell carcinoma • Hepatocellular carcinoma 	\$750 million

*approximate, based on company filings and market data

Despite their proven efficacy, angiogenesis inhibitors are limited by several key challenges

Angiogenesis inhibitors work by reducing the formation of **new blood vessels** around the tumor, starving it of vital nutrients needed for tumor growth, and limiting its ability to spread (metastasise) elsewhere in the body



1

Tumor Hypoxia

Sustained tumor hypoxia activates adaptive mechanisms, leading to secondary resistance and tumor progression



Limited Duration of Effect

2

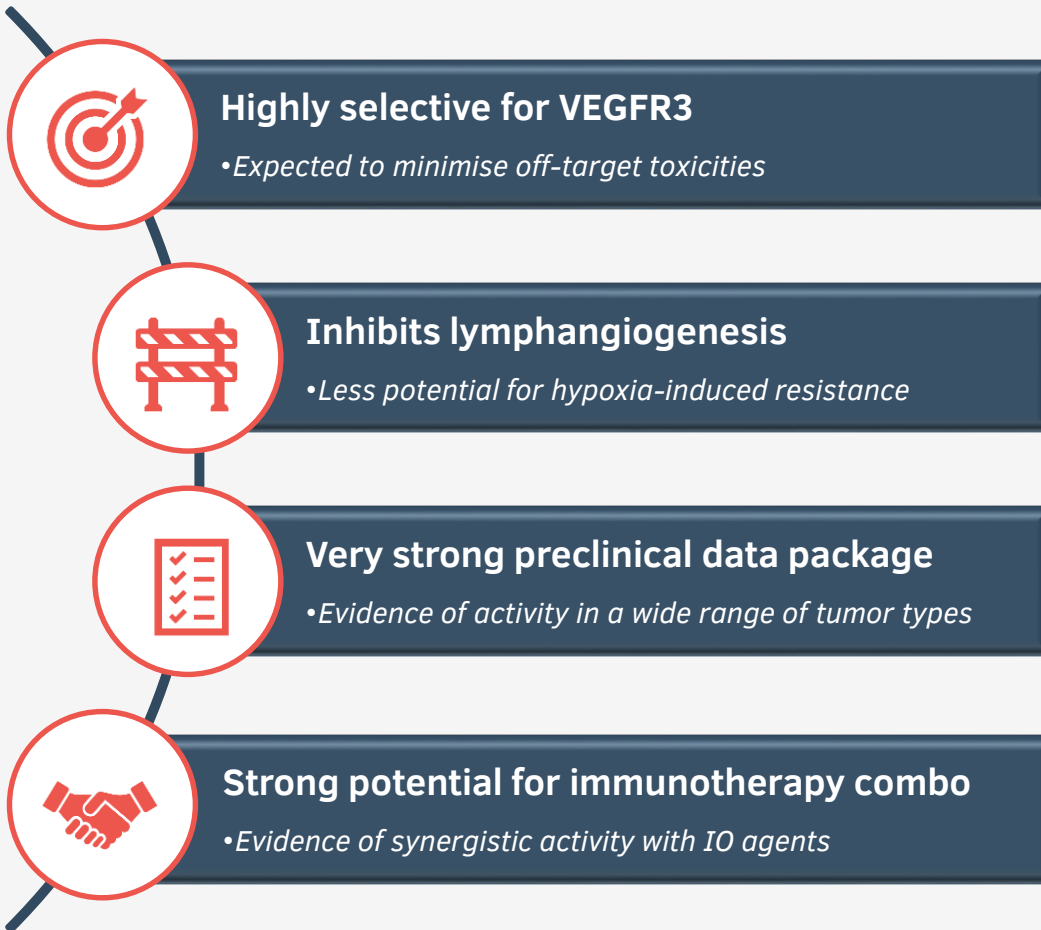
Off-Target Activity

Most small molecule angiogenesis inhibitors have a broad range of pharmacological activities, leading to substantial toxicity (e.g. hand-foot syndrome)



Significant Side Effects

EVT801 is a selective VEGFR inhibitor, primarily inhibiting lymphangiogenesis (formation of new lymphatic vessels)



Oral Presentation

Administered by mouth once or twice daily

Strong IP Protection

Composition-of-matter to 2032 / 2033 in most jurisdictions

Low Cost of Goods

Straightforward manufacture with excellent stability at controlled ambient

Favourable Preclinical Toxicology

Limited evidence of toxicity in one-month GLP animal studies

Preclinical data confirms activity of EVT801 (1/2)

Dramatic single-agent activity in DEN-induced HCC model

Experimental Methods

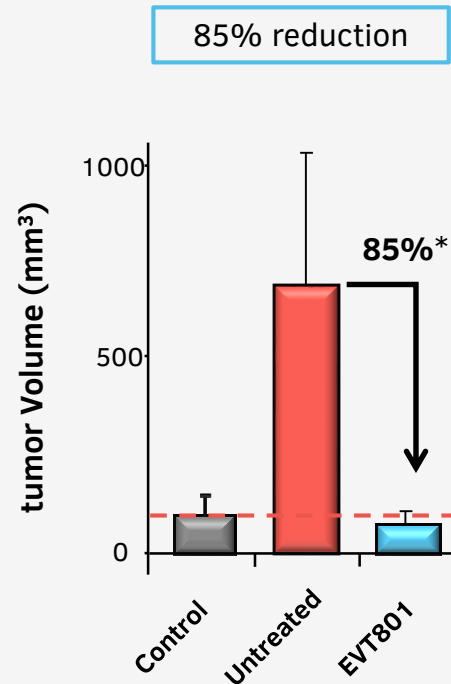
- Syngeneic mouse model
- Hepatocellular carcinoma chemically induced with diethylnitrosamine (DEN)
- Treatment with EVT801 in M10-M12

Conclusions

- EVT801 monotherapy causes marked reduction in growth of primary tumor versus untreated comparator
- EVT801 appears to have significant anti-metastatic effect

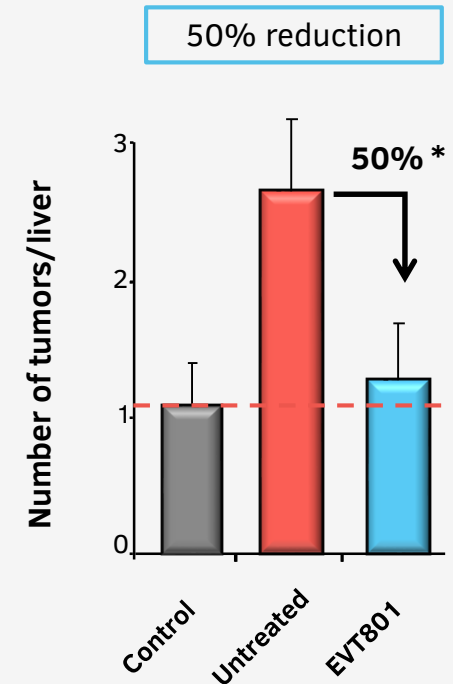
Tumor Growth

Total Tumor Volume



Metastasis

Number of Tumors in the Liver



* Statistically significant (p<0.05)

Preclinical data confirms activity of EVT801 (2/2)

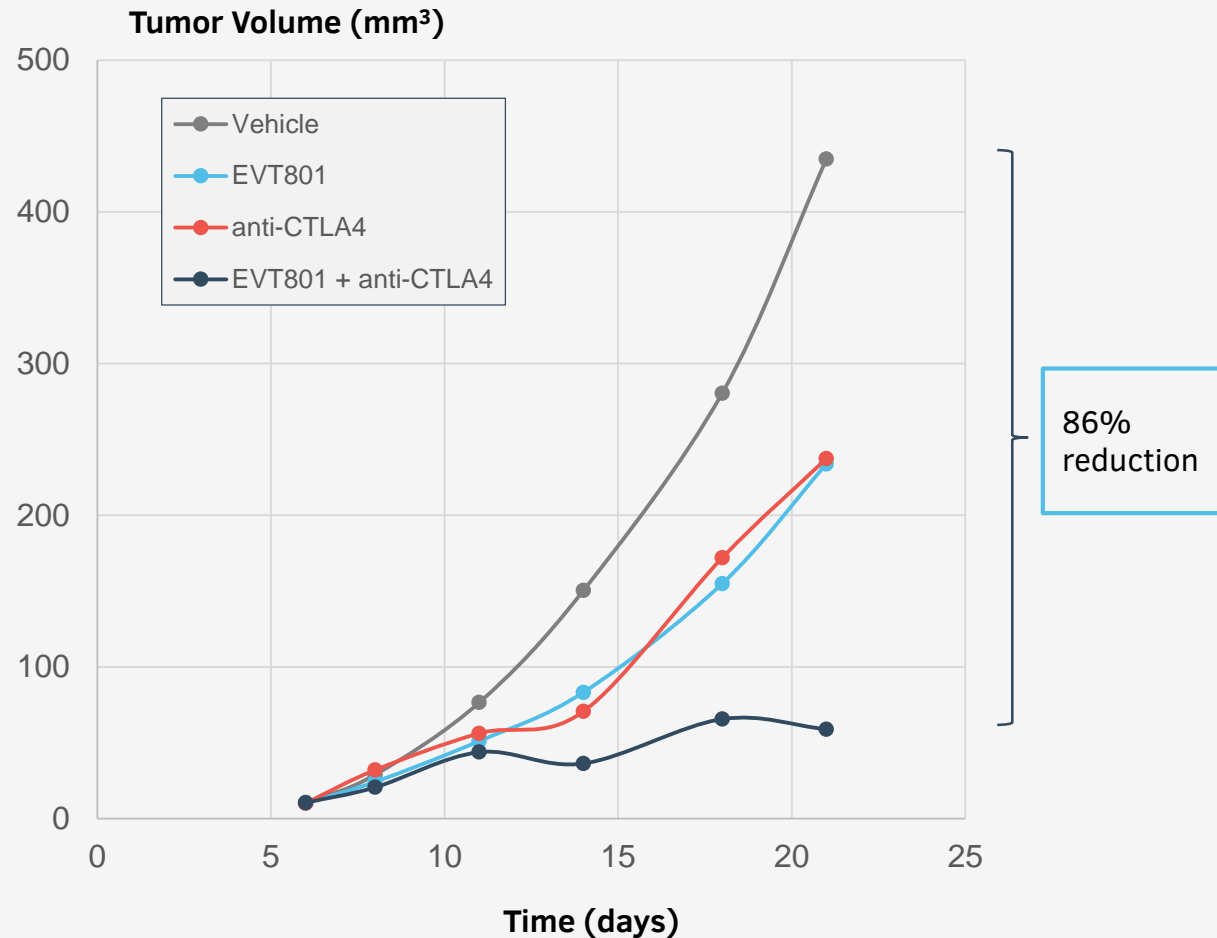
Synergistic activity in combination with anti-CTLA4 mAb

Experimental Methods

- Orthotopic mouse model
- 4T1 tumor cells inoculated in BALB/c mice (mammary fat pad)
- Treatment with EVT801 on D7-D21 and with anti-CTLA4 on D7, D14, D21

Conclusions

- EVT801 monotherapy has approximately equivalent activity to anti-CTLA4 antibody
- Combination of EVT801 and anti-CTLA4 antibody is highly synergistic



Data on file

Note: CTLA4 is the target of Yervoy® (ipilimumab), an approved immuno-oncology therapy

Kazia commenced a phase I clinical trial in November 2021



Up to 60 patients with advanced solid tumors, resistant to existing therapies



Endpoints will include safety and tolerability, mechanism of action, and preliminary efficacy



EVT801 administered initially as monotherapy; plan for early transition to immunotherapy combination



Rich suite of biomarkers investigated to provide deep understanding of EVT801 activity



First Patient In (FPI) November 2021

Current Status

- | | |
|---|---|
| • Investigational product manufactured and ready to ship | ✓ |
| • Draft clinical trial protocol prepared and under discussion with clinicians | ✓ |
| • Preclinical toxicology package complete for phase I | ✓ |
| • Regulatory documentation prepared | ✓ |
| • Biomarker assays in advanced development | ✓ |
| • Two sites in EU selected to commence phase I study | ✓ |
| • CRO selected for phase I study | ✓ |

Key Points

- 1 Well-understood mechanism (anti-angiogenesis) but unique differentiating feature (VEGFR3 selectivity)
- 2 Very strong preclinical data package, with evidence of activity in multiple tumors and favourable toxicology
- 3 High potential for combination use with immuno-oncology therapies
- 4 'Clinic-ready', with phase I study anticipated to start in CY2021
- 5 Substantially diversifies Kazia pipeline beyond PI3K and beyond brain cancer



KAZIA

THERAPEUTICS

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