

DISCLAIMER



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RACE ONCOLOGY LIMITED (ASX:RAC)

WHY INVEST NOW?





Clinical stage RNA focused company targeting multiple cancer indications with estimated annual oncology revenues of >US\$2.6 billion



Zantrene® first in class, best in class, most clinically advanced FTO inhibitor



Expanding projects, pipeline and prospects

New formulations to extend Zantrene® utility in solid tumours and beyond

Cardio-protection, an emerging opportunity with significant commercial potential



Multiple short-to-medium term, high-impact inflection points including cardio-protection and Zantrene® US IND



SIGNIFICANT COMMERCIAL OPPORTUNITIES





Annual revenue conservatively at US\$2.6 billion for AML, renal cancer and melanoma alone

Significant revenue potential from other FTO-driven cancers



Existing market with millions of patients given anthracyclines each year

Multi-billion dollar addressable market

Market potential of similar magnitude to the FTO opportunity



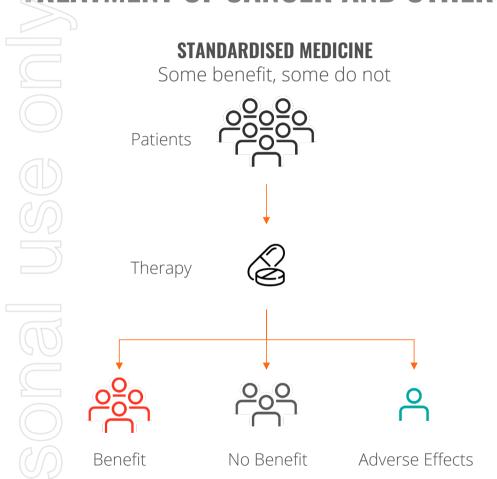
Expanded opportunities in oncology, cardio-protection and other diseases

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PRECISION THERAPY: A FUNDAMENTAL CHANGE IN THE TREATMENT OF CANCER AND OTHER DISEASES

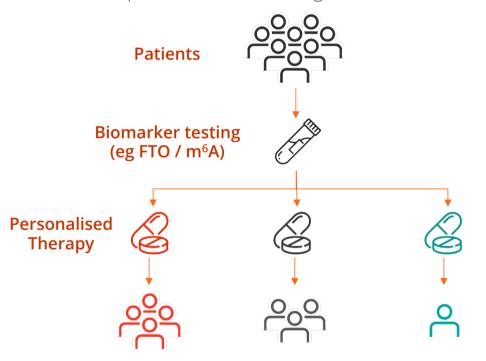




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PERSONALISED MEDICINE

Each patient receives the right medicine for them

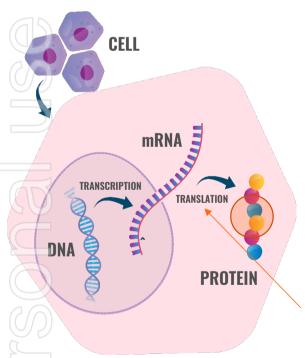


Each patient benefits from individualised treatment

PROBLEMS WITH RNA REGULATION UNDERLIE MANY DISEASES

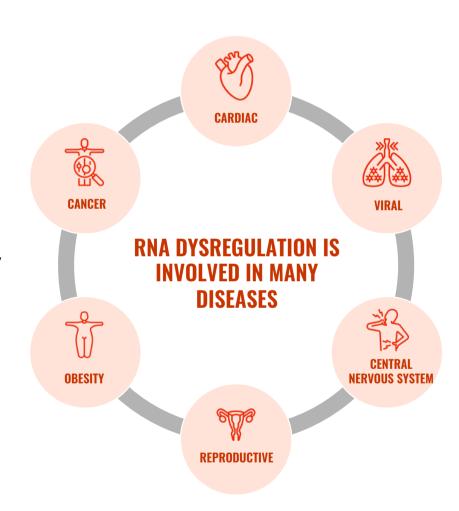


Ribonucleic acid (RNA) is the key information messenger that translates genetic instructions from DNA (genes) to cell proteins



Targeting RNA regulation pathways, like m⁶A methylation, offers new treatment options for many diseases, including cancer

m⁶A RNA REGULATION



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FTO: m⁶A RNA DEMETHYLASE & REGULATOR



ETO is a key m⁶A RNA demethylase that is dysregulated in many cancers and other diseases^{1,2}

Zantrene® has been independently confirmed as the first-in-class, best-in-class FTO inhibitor³

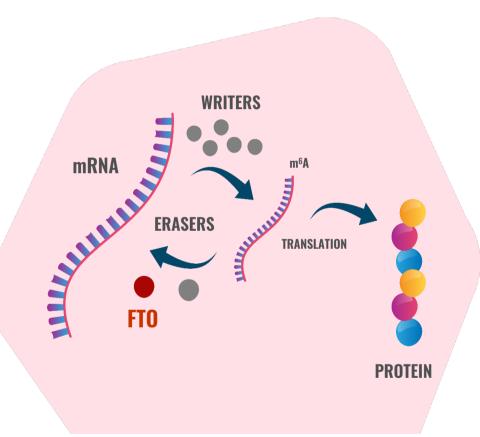
Race is advancing Zantrene® as the lead FTO targeted therapy (Phase 2)

New: Race is developing new RNA targeted molecules to complement Zantrene®

1. Deng, X., Su, R., Stanford, S., & Chen, J. (2018). Critical Enzymatic Functions of FTO in Obesity and Cancer. Frontiers in Endocrinology, 9, 724–7

2. Huang, H., Weng, H., & Chen, J. (2020). m6A Modification in Coding and Non-coding RNAs: Roles and Therapeutic Implications in Cancer. Cancer Cell, 37(3), 270–28

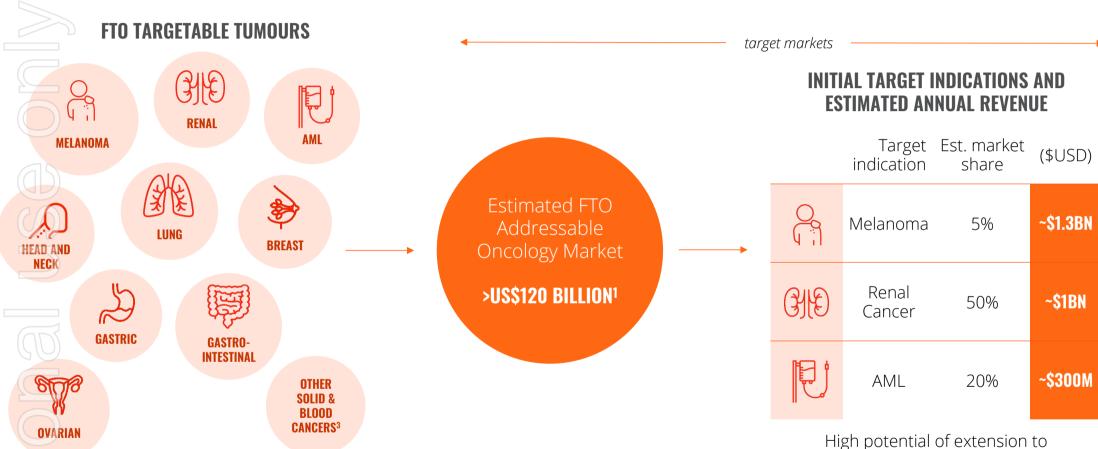
3. Su, R. et al. Targeting FTO Suppresses Cancer Stem Cell Maintenance and Immune Evasion. (2020) Cancer Cell 38, 79-96.e11.



FTO & CANCER BROAD COMMERCIAL POTENTIAL



other cancer types



- 1. Source: Evaluate Pharma & Infinium Research. 2. Race Oncology Data on file references available on request
- 3. Includes pediatric cancers, lymphoma, cervical, bladder, cholangiocarcinoma, oesophageal, endometrial, thyroid, sarcoma, adrenal, hepatocellular and pancreatic

RACE ONCOLOGY LIMITED (ASX:RAC) INVESTOR PRESENTATION

RNA REGULATION PRECLINICAL PHARMA DEALS SIGNIFICANT VALUATIONS





OCT 18:

Gotham Therapeutics completes a \$54m Series A from GlaxoSmithKline & Celgene



MAR 21:

Takeda pays \$120m in upfront fees & preclinical milestones



SEP 21:

Skyhawk raises \$600m in equity funding and multiple pharma partnerships with milestones of over \$20b plus royalties



SEP 21:

858 Therapeutics completes a \$60m Series A and acquires Gotham Therapeutics





OCT 21:

Exelixis deal of US\$17m upfront to Storm Therapeutics and royalties





OCT 21:

Ipsen obtains an exclusive license to commercialize a preclinical stage METTL3inhibitor program for US\$446m

Highly active deal segment

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THREE PILLAR STRATEGY OPTIMISED BUILDING SHAREHOLDER VALUE



Capitalising on RNA regulation leadership credentials across all 3 Pillars

ZANTRENE®

Maximising Current Zantrene® Formulation

- Extramedullary AML provides pathway to regulatory approval
- Proof-of-principle FTO program
- US IND in 2022
- Cardio-protection program

ZANTRENE® OPTIMISED

Enhancing Zantrene® Utility
With New Formulations

- Improved IV formulation(s) for FTO-targeting solid tumours
- Potential oral formulation
- New IP

BEYOND ZANTRENE®

Pursuing New RNA-Targeting Molecules

 Internal development, partnership and/or acquisitions

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EXPANDED PIPELINETARGETING FTO & m⁶A RNA METHYLATION



INVESTOR PRESENTATION

		PRECLINICAL DISCOVERY IN VITRO IN VIVO PHASE I	CLINICAL PHASE II REGISTRATION
	r/r AML (combination)	Zantrene + fludarabine + clofarabine, Chaim Sheba Israel	
ZANTRENE®	EMD AML (stratum 1)	High Dose Zantrene + cytarabine	*US IND 2022
	EMD AML/MDS (stratum 2)	Low Dose Zantrene + decitabine	
	Cardio-protection (breast cancer)	Zantrene + doxorubicin	
	Solid tumours	Zantrene	
	Melanoma	Zantrene + anti-PD1	
ZANTRENE®	Clear cell renal cell carcinoma	Zantrene + anti-HIF2α	
OPTIMISED	New formulation IV	Multiple programs	
	Companion diagnostic	Genomic + Protein	
	Oral formulation	Multiple programs	
	Lung cancer	Zantrene + anti-PD1	
DEVOND			
BEYOND Zantrene®	New m ⁶ A regulating molecules		

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SHORT-TERM VALUE DRIVERS





	Q3/21	Q4/21	Q1/22	Q2/22	Q3/22	Q4/22
New cardio-protection patent						
First patient into AML EMD clinical trial						
US IND filing for AML EMD						



	Q3/21	Q4/21	Q1/22	Q2/22	Q3/22	Q4/22
FTO melanoma animal data						
New IV formulation for FTO solid tumours						
US IND filing for solid tumours						
Phase 1/2 FTO solid tumour trial						
Phase 2b cardio breast cancer trial						

WHY INVEST NOW?





Clinical stage RNA focused company targeting multiple cancer indications with estimated annual oncology revenues of >US\$2.6 billion



Zantrene® first in class, best in class, most clinically advanced FTO inhibitor



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EXPANDED PIPELINETARGETING FTO & m⁶A RNA METHYLATION



INVESTOR PRESENTATION

ZANTRENE®	r/r AML (combination) EMD AML (stratum 1) EMD AML/MDS (stratum 2)	Zantrene + fludarabine + clofaral High Dose Zantrene + cytarabine	oine, Chaim Sheba Israel	
ZANTRENE®		High Dose Zantrene + cytarabine		
ש	EMD AMI /MDS (stratum 2)	<u> </u>		*US IND 2022
	LIVID AIVIL/IVID3 (Straturi 2)	Low Dose Zantrene + decitabine		
	Cardio-protection (breast cancer)	Zantrene + doxorubicin		

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R/R ACUTE MYELOID LEUKAEMIA (PHASE 1B/2)





2020 Phase 2 trial demonstrated an impressive 40% overall response rate for Zantrene® as a single agent in R/R AMI ¹

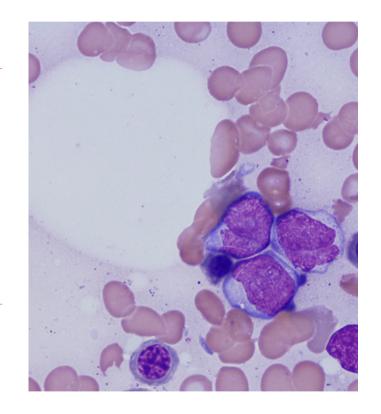


CURRENT R/R AML PHASE 1B/2

- Phase 1b/2 combination study in up to 29 R/R AML patients (NCT04989335)
- Regimen. Zantrene + fludarabine + clofarabine
- PI. Prof Arnon Nagler, Chaim Sheba, Israel
- Regimen has published pre-clinical support²
- First patient treated Aug. 2021



BUILDS ON ZANTRENE LEGACY CREDENTIALS AND EXTENDS USE INTO COMBINATION TREATMENT OF R/R AML



1. Canaani J et al. A phase II study of bisantrene in patients with relapsed/refractory acute myeloid leukemia Eur J Haematol. 2020;00:1–7. 2. Valdez et al., J Clin Exp Oncol 2021, 10:4

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EXTRAMEDULLARY AML





WHY EXTRAMEDULLARY (EMD) AML?

- 2020 Israel Phase 2 results 4/4 responders had EMD AML
- Unmet clinical need EMD has poor prognosis, no approved therapies & often excluded from clinical trials
- EMD AML is now known to occur in up to 20% AML patients¹
- Small number of patients needed for registrational trial (~100)



ONGOING PHASE 2 TRIAL WITH TWO STRATUM

High dose Zantrene® (Stratum 1) plus low dose Zantrene® (Stratum 2)



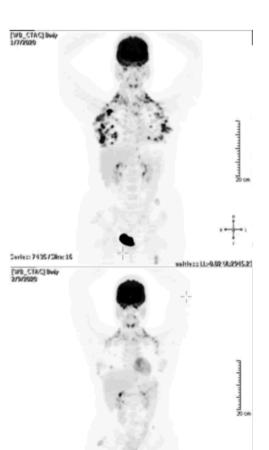
STRATUM 1 = HIGH INTENSITY CHEMOTHERAPY

- High dose Zantrene® with cytarabine builds on prior clinical studies
- Up to 30 patients at 10 AML specialist sites
- Human ethics submission filed (Oct. 2021)

FDA 505(B)(2) PATHWAY TO APPROVAL

1. Stölzel, F., Lüer, T., Löck, S., Parmentier, S., Kuithan, F., Kramer, M., et al. (2020). The prevalence of extramedullary acute myeloid leukemia detected by 18FDG-PET/CT: final results from the prospective PETAML trial. Haematologica, 105(6), 1552-1558.







EXTRAMEDULLARY AML & MDS



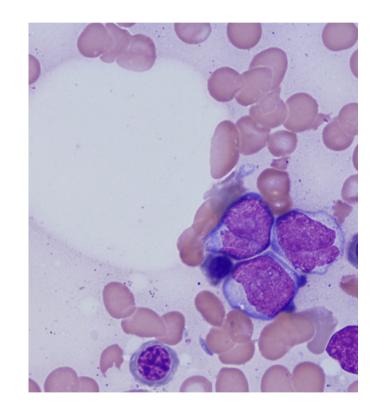


STRATUM 2 - LOW DOSE ZANTRENE

- Low dose Zantrene® with oral decitabine
- Decitabine up-regulates FTO expression¹
- Synergy between Zantrene® and decitabine
- Trial targets AML & MDS patients that can not tolerate high intensity chemotherapy
- Up to 30 patients at 10 AML/MDS specialist sites
- Human ethics submission filed (Oct. 2021)



PROVIDES PROOF-OF-CONCEPT FOR FTO TARGETING



1Su, R. et al. Targeting FTO Suppresses Cancer Stem Cell Maintenance and Immune Evasion. (2020) Cancer Cell 38, 79-96.e11





ANTHRACYCLINE CARDIO-PROTECTION





- Heart damage from cancer therapies is a major and increasing issue as cancer patients live longer
- Anthracyclines, anti-HER2, targeted agents and immunotherapies can all cause cardio damage
- New & emerging field of cardio-oncology
- Limited effective therapies



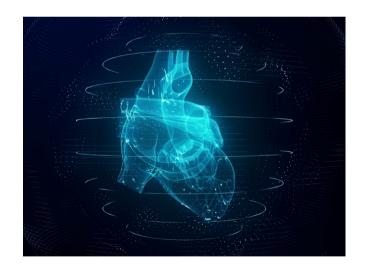
- Zantrene® known to have lower cardiotoxicity
- Zantrene® found to protect from anthracycline induced cardiac damage while providing anti-cancer synergy¹
- Effect independent of FTO inhibition!



MULTI-BILLION DOLLAR ADDRESSABLE MARKET

The Role of Anthracyclines – today's Cancer Patients Are tomorrow's Cardiac Patients

McGowan J et al Anthracycline Chemotherapy and Cardiotoxicity Cardiovasc Drugs Ther (2017) 31:63–75



1. ASX Release: 21 November 2021

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ANTHRACYCLINE CARDIO-PROTECTION PHASE 2B BREAST CANCER





• Commonly used anthracyclines like doxorubicin cause significant cardiac damage during cancer treatment

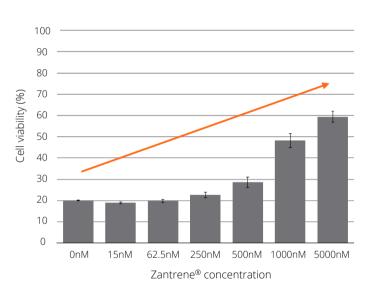


- Prof Aaron Sverdlov & Dr Doan Ngo, University of Newcastle
- Zantrene® PROTECTS DOXORUBICIN CARDIAC DAMAGE while improving anti-cancer activity
- Clinical Development. Phase 2b trial in breast cancer patients after additional animal testing finalised



- EXPECTATION OF IMPROVED PATIENT OUTCOMES
- LARGE EXISTING MARKET WITH HIGH UNMET NEED
- POTENTIAL EXTENSION TO OTHER CARDIO-RENAL INDICATIONS WITH SIGNIFICANT ADDITIONAL COMMERCIAL OPPORTUNITY

Zantrene® & doxorubicin



Increasing cardiac cell viability with addition of Zantrene® to 1µM doxorubicin

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EXPANDED PIPELINE JARGETING FTO & m⁶A RNA METHYLATION



INVESTOR PRESENTATION

		PRECLINICAL			CLINICAL	
		DISCOVERY IN VITRO	IN VIVO	PHASE 1	PHASE 2	REGISTRATIO
	Solid tumours	Zantrene Australia				
	Melanoma	Zantrene + anti-PD1				
	Clear cell renal cell carcinoma	Zantrene + anti-HIF2α				
	New formulation IV	Multiple programs				
D	Companion diagnostic	Genomic + Protein				
	Oral formulation	Multiple programs				

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SOLID TUMOURS (PHASE 1/2)





Zantrene® is a potent inhibitor of FTO (IC₅₀ 142nM)¹



- Use as a single agent for FTO addicted cancer cells
- FTO inhibition shows synergy in combination with other chemo, radio & immuno-therapy options1
- FTO inhibition overcomes resistance to chemo, radio & immuno-therapy1
- Phase 1/2 FTO solid tumour clinical trial scheduled for 2022 to optimize dosing & drug combinations



LARGE POTENTIAL APPLICATION IN SOLID TUMOURS & COMMERCIAL OPPORTUNITY



1. Su, R. et al. Targeting FTO Suppresses Cancer Stem Cell Maintenance and Immune Evasion. (2020) Cancer Cell 38, 79-96.e11

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MELANOMA IMMUNOTHERAPY COMBINATION (PHASE 1B/2)





- One of the most lethal and treatment resistant cancers with 5-year survival rate for advanced melanoma around 25%¹
- FTO is overexpressed in ~50% of all metastatic melanomas and inhibition of FTO overcomes immune-therapy (checkpoint) resistance²



- Professor Xu Dong Zhang, University of Newcastle, NSW
- Preclinical studies with Zantrene® showed response correlated with FTO expression levels
- Combination treatment studies underway including immunotherapy
- Immunotherapy animal model testing ongoing with proof-ofconcept clinical trial to start





SIGNIFICANT COMMERCIAL VALUE / OPPORTUNITY

1. www.cancer.net/cancer-types/melanoma/statistics

2. Yang, S., Wei, J., Cui, Y.-H., Park, G., Shah, P., Deng, Y., et al. (2019). m6A mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade. Nature Communications, 10(1), 1131–14.

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CLEAR CELL RENAL CELL CANCER FTO ADDICTION (PHASE 1B/2)





- 10th most common cancer with 12% 5-year survival rate¹
- 90% of ccRCC have mutations in von Hippel-Lindau (VHL) tumour suppressor gene²
- Inhibition of FTO was found to kill VHL(-) ccRCC cancers³



RACE ONCOLOGY PROGRAM

- Prof Nikki Verrills, University of Newcastle
- In vitro Zantrene® studies underway
- Next steps: animal model work followed by proof of concept clinical trial





SIGNIFICANT COMMERCIAL VALUE / OPPORTUNITY

1. www.cancer.net/cancer-types/kidney-cancer/introduction | 2. Young, A. C., Craven, R. A., Cohen, D., Taylor, C., Booth, C., Harnden, P., et al. (2009). Analysis of VHL Gene Alterations and their Relationship to Clinical Parameters in Sporadic Conventional Renal Cell Carcinoma. Clinical Cancer Research, 15(24), 7582-7592. | 3. Xiao, Y., Thakkar, K. N., Zhao, H., Broughton, J., Li, Y., Seoane, J. A., et al. (2020). The m6A RNA demethylase FTO is a HIF-independent synthetic lethal partner with the VHL tumor suppressor. Proceedings of the National Academy of Sciences, 117(35), 21441-21449.





COMPANION DIAGNOSTICS





Companion diagnostic needed for precision medicine for both diagnosis and treatment monitoring



TWO PROGRAMS UNDERWAY

- FTO and global m⁶A RNA. Chaim Sheba, Prof Domanissi
- m⁶A RNA genomics. University of Newcastle, Prof Murray





COMPANION DIAGNOSTIC TO IDENTIFY PATIENTS LIKELY TO RESPOND TO ZANTRENE® & MONITOR TREATMENT RESPONSE





FORMULATION PROGRAM. EXTEND AND ENHANCE ZANTRENE®





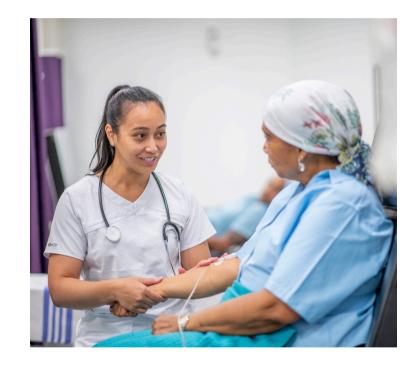
Current Zantrene® formulation requires a two hour central line infusion



Developing new Zantrene® formulations to allow peripheral infusion, shorter infusion times and less frequent administration



IMPROVES ZANTRENE® UTILITY, IP PROTECTION, PATIENT CONVENIENCE AND COMMERCIAL OPPORTUNITY



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EXPANDED PIPELINE TARGETING FTO & m⁶A RNA METHYLATION



INVESTOR PRESENTATION

		PRECLINICAL DISCOVERY IN VITRO IN VIVO PHASE 1 PHASE 2	REGISTRATION
BEYOND	New m ⁶ A Regulators Drugs		

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NEW m⁶A RNA TARGETING MOLECULES





Recent scientific and clinical discoveries implicate m⁶A RNA methylation in many disease areas



RACE IS DEVELOPING NEW MOLECULES TO

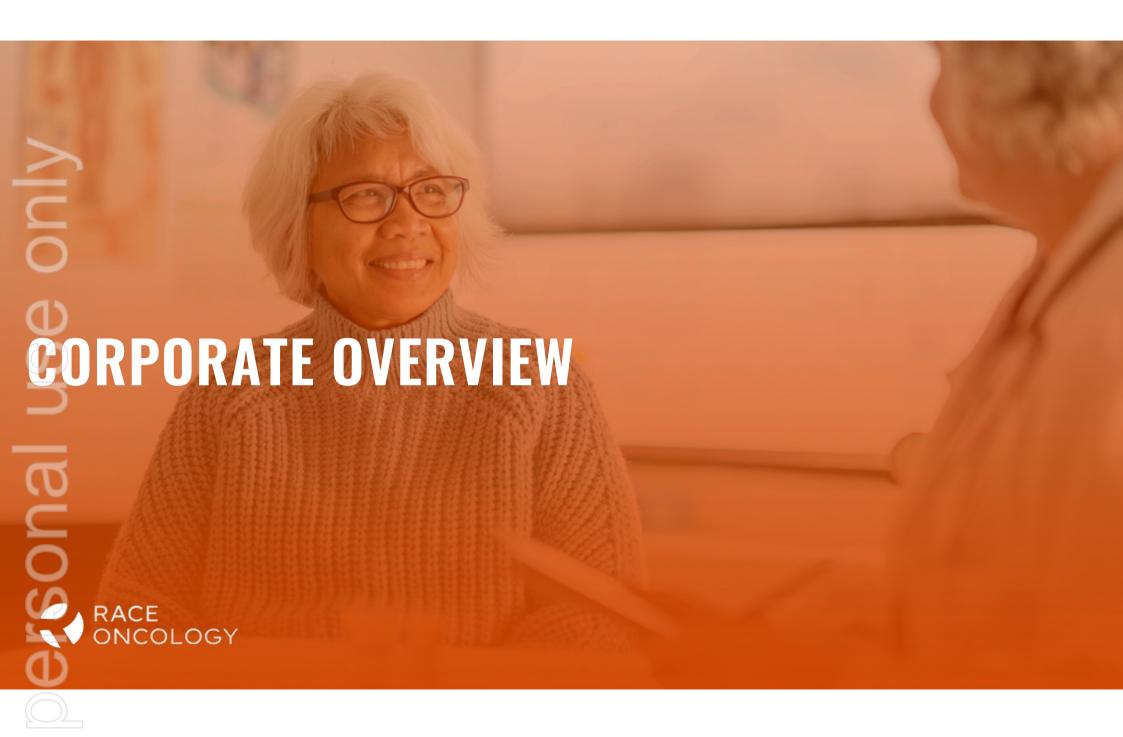
- Allow oral administration of an FTO inhibitor
- Target other m⁶A RNA regulator proteins
- Address non-cancer indications





PROVIDE NEW IP AND EXTEND APPLICATIONS AND COMMERCIAL OPPORTUNITY BEYOND ZANTRENE®





STRONG, EXPERIENCED BOARD AND MANAGEMENT DEEP DOMAIN EXPERTISE



BOARD



















Dr John Cullity, Non-Executive Chairman

Mr Phil Lynch, CEO and Managing Director

Dr Daniel Tillett, CSO and Executive Director

Mary Harney Non-Executive Director

MANAGEMENT















Institute of Medical Research

Datapharm Australia
CUNICAL TRANSFERIALISTS



Mr Phil Lynch, CEO and Managing Director Dr Daniel Tillett, PhD CSO and Executive Director Dr David Fuller Chief Medical Officer Dr Marinella Messina, PhD Clinical Program Director

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INVESTOR PRESENTATION

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ROBUST & GROWING INTELLECTUAL PROPERTY PORTFOLIO



Patent Family	PATENT	STATUS OF PATENTS (US)
7234 'family': the original Race patents	Use of Zantrene and related analogues in cancer	6 granted
8854 'family': manufacture and formulation	Manufacture and formulation of Zantrene to modern FDA standards	2 pending
9259 'family': minimal residual disease	Covers use of Zantrene as treatment of minimal residual disease	1 PCT
Melanoma 'family'	Covers multiple uses of Zantrene in combination with other drugs	7 provisional
Clear cell renal cell carcinoma 'family'	Covers multiple uses of Zantrene in combination with other drugs	6 provisional
Cardio-protection family	Covers use of Zantrene to prevent cardio damage	1 provisional

RACE ONCOLOGY LIMITED (ASX:RAC)

CORPORATE SNAPSHOT



ISSUED CAPITAL	
Shares ¹	149.5m
Options ¹	20.4m
Shareholders ²	9,272
MARKET CAPITALISATION	
Share price ¹	\$3.77
Market value ¹	\$564m
Cash (30 June 2021)	\$8.9m
Enterprise value	\$555m
SIGNIFICANT SHAREHOLDERS	
Dr Daniel Tillett (Director & CSO)	9.0%
Dr John Cullity (Chairman)	5.6%
Merchant Opportunities Fund	5.5%



1. As at 23 Nov 2021. Includes 7.04 million \$4.50 bonus option expiry 16 May 2022 2. As at 30 Sept 2021

RACE ONCOLOGY LIMITED (ASX:RAC) INVESTOR PRESENTATION



SHARE PURCHASE PLAN OVERVIEW



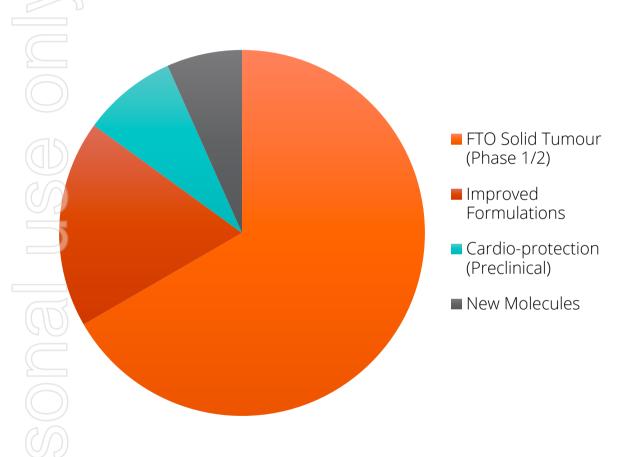
Race is launching a Share Purchase Plan (SPP) to provide existing shareholders the opportunity to invest in driving next steps across our highly promising clinical program.

- •) Under the SPP, all eligible shareholders can subscribe for up to \$30,000 in new RAC shares
 - SPP aims to raise between \$12m and \$29.7m to fund clinical progress toward commercial outcomes.
 - Level of funding raised will dictates how rapidly Race can commercially progress Zantrene
 - Offer priced attractively at \$3.00, a 17.4% discount to the 5 day volume weighted average price
- New shares issued will rank pari passu with existing shares from their date of issue
 - Full details to be released to the ASX later today (23 Nov 2021) via an SPP booklet, together with a full strategic update presentation

USE OF FUNDSBASE CASE



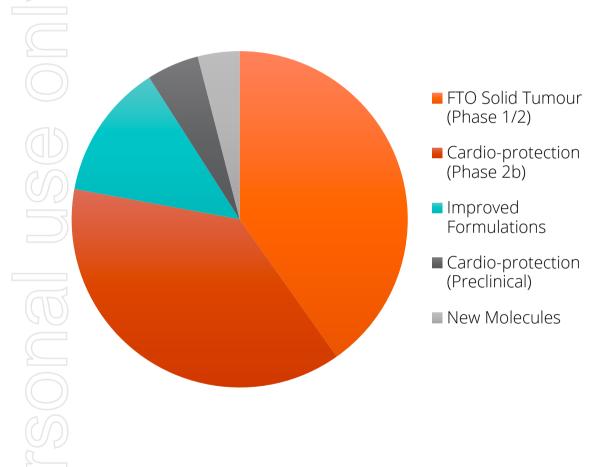
INVESTOR PRESENTATION



Proposed Expenditure	
FTO Solid Tumour (Phase 1/2)	\$8 million
Improved Formulations	\$2.2 million
Cardio-protection (Preclinical)	\$1 million
New Molecules	\$0.8 million
Total	\$12 million

USE OF FUNDS MID CASE



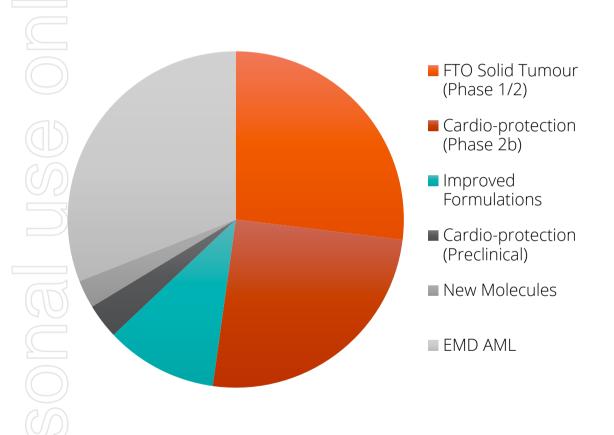


Proposed Expenditure	
FTO Solid Tumour (Phase 1/2)	\$8 million
Cardio-protection (Phase 2b)	\$7.5 million
Improved Formulations	\$2.6 million
Cardio-protection (Preclinical)	\$1 million
New Molecules	\$0.8 million
Total	\$19.9 million

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USE OF FUNDSFULL CASE





Proposed Expenditure				
EMD AML (Phase 2 Europe)	\$9.2 million			
FTO Solid Tumour (Phase 1/2)	\$8.0 million			
Cardio-protection (Phase 2b)	\$7.5 million			
Improved Formulations	\$3.2 million			
Cardio-protection (Preclinical)	\$1 million			
New Molecules	\$0.8 million			
Total	\$29.7 million			

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SHARE PURCHASE PLAN TIMETABLE*

Date	ltem
Record Date for Share Purchase Plan	8:00pm (AEDT) Monday, 22 nd November 2021
Announce Share Purchase Plan, Lodge Appendix 3B and issue Cleansing Notice	Tuesday, 23 rd November 2021
Share Purchase Plan booklet released to ASX	Tuesday, 23 rd November 2021
Opening date for Share Purchase Plan	Tuesday, 23 rd November 2021
Dispatch Share Purchase Plan booklet to shareholders	Wednesday, 24 th November 2021
Closing date for Share Purchase Plan	8:00pm (AEDT) Friday, 17 th December 2021
Announcement of result of Share Purchase Plan	Tuesday, 21 st December 2021
Issue of new Shares under the Share Purchase Plan and lodge Appendix 2A	Tuesday, 21 st December 2021

* Race retains the discretion to alter any or all of these dates

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