

Corporate Presentation

March 2023

ASX:RCE FSE:R9Q

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Board Structure



Dr John Prendergast Executive Chairman (Shares: 250,000) (Options: 2,175,000)



James Graham
Chief Executive Officer
(Shares: 6,031,932 – 3.39%)
(Options: 2,250,000)



Michele Dilizia
Chief Scientific Officer
(Shares: 3,543,485 - 2.0%)
(Options: 1,500,000)



Justin Ward
Executive Director &
Principal Quality Chemist
(Shares: 158,966)
(Options: 600,000)



Alistair McKeough Non-Executive Director (Shares: 25,000) (Options: 1,125,000)



Dr Alan Dunton Non-Executive Director (Shares: 60,000) (Options: 1,125,000)



Justin Reynolds
Outsourced CFO



Maggie Niewidok Company Secretary



Investment Highlights



Proprietary first-in-class anti-infectives against bacteria and viruses



Multiple shots on goal, initially pursuing four indications: Sepsis, UTI, Burn wounds and Diabetic Foot Ulcers



Multiple Phase I and Phase II clinical programs, addressing unmet medical needs



The global antibiotics market was US\$38.08 billion in 2021 projected to grow to US\$45.30 billion in 2028 at a CAGR of 2.5%



Multiple near-term clinical readouts over the next 6-18 months



A Versatile Technology Platform

- Clinical-stage biotech company developing Anti-infectives targeting both bacterial and viral indications
- Strong IP and own manufacturing capability
- Qualified Infectious Disease Product designation
 - 10 years market exclusivity plus fast track approval*
- Versatile delivery platform oral, intravenous and topical formulations
- Designed to safely provide treatment without developing resistance over time
- Multiple infectious disease opportunities with RECCE® 327

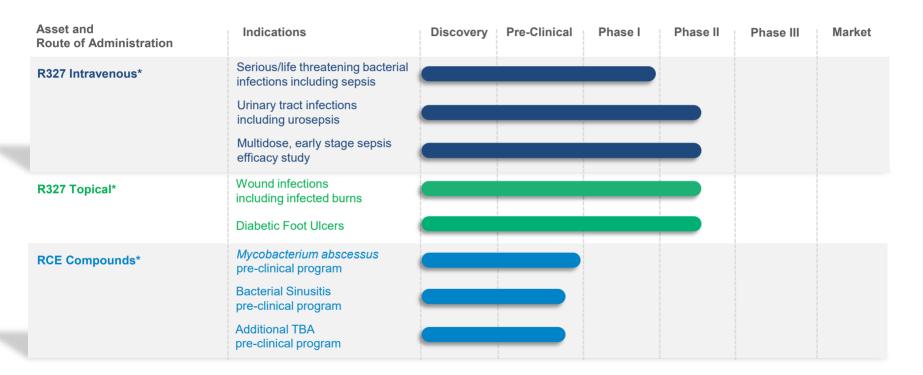




recce.com.au

Strong Pipeline

Over Various Indications and Upcoming Inflection Points



*Anti-bacterial program 5

Empowering Clinicians with a New Class of Antibiotics

The need for new antibiotics has never been greater

- Initial resistance to use new approved drugs due to antibiotic resistance
- "New antibiotics, able to kill drug-resistant bacteria, is essential to saving modern medicine."
 - Wellcome Trust
- "Lack of new antibiotics threatens global efforts to contain drug-resistant infections."
 - World Health Organization

R327 addressing market need

- R327 does not contribute to AMR, supported by unique and multi-layered MoA.
 - Empowering clinicians to confidently and quickly administer R327 at first patient presentation.
- Use of R327 may alleviate the selective pressure on bacteria posed by other antibiotics and allow them to regain efficacy.

Physician perspectives on R327

"We have so few options when patients have difficult pathogens. This agent would be great to come into play for them." – ID KOL

"This may start off being used in resistant patients, but if it is really compelling, of course physicians will use it for more people." – Pulm. KOL

"If a patient has M. abscessus, they're fortunate if they get any improvement, and there's sometimes potentially permanent damage." – Pulm. KOL



Independent Study Undertaken on R327 MoA¹

By Leading Experts in Bacterial MoA Analysis





R327 permeabilizes cell membrane and enters the cell

Stage 2



R327 interrupts bacterial cellular energetics via ATP Synthesis

Stage 3



Cellular division & nondividing cell functions are disrupted

Stage 4



R327 is rapidly and irreversibly bactericidal

RECCE® 327 Activity Against Escherichia coli

 E. coli grows fast.
 Eukaryotic cells healthy and not affected.

- R327 at 3,000 ppm shown to be highly effective against E. coli without affecting growing, healthy eukaryotic cells.
- R327 rapidly and irreversibly shuts down the ATP in E. coli, not allowing it to divide and grow.





RECCE® 327 Activity Against Staphylococcus aureus

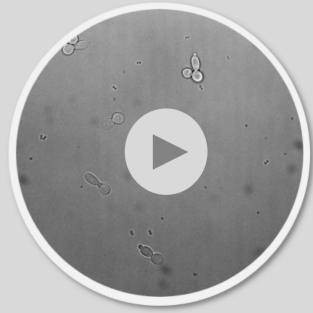
• S. aureus bacterial growth slower than E. coli, not affecting eukaryotic cells.

- R327 at 2,300 ppm shows to be highly effective against S. aureus without affecting growing, healthy eukaryotic cells.
- R327 rapidly and irreversibly shuts down the ATP in S. aureus, not allowing it to divide and grow.

Without R327



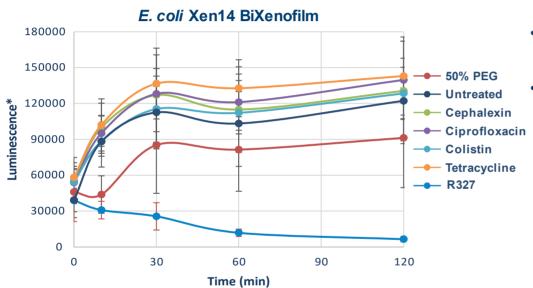
R327 (2,300 ppm)







R327 faster acting than existing antibiotics – no prolonged exposure needed



- R327 kills pathogenic bacteria at a faster rate.
- **R327 designed to work faster** than all existing antibiotics, reinforced by MoA work undertaken by experts in their field.

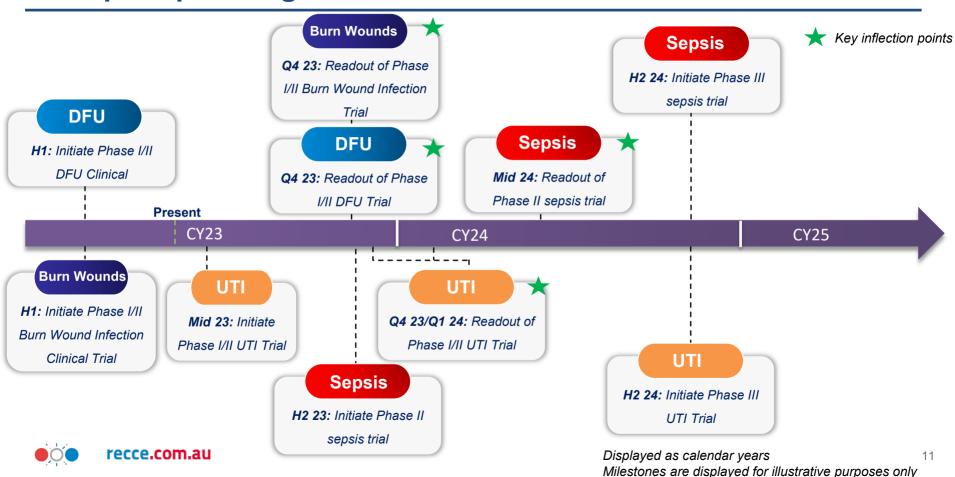
"R327 kills bacteria in conditions where other antibiotics are ineffective."

- Marc Sharp, PhD, Chief Scientific Officer, Linnaeus Bioscience

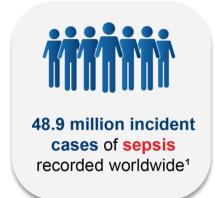
R327 is faster-acting against bacteria than other antibiotics – works quickly, without prolonged cellular exposure times required of other antibiotics (extended exposures commonly associated with systemic toxicity).



Multiple Upcoming Clinical Milestones

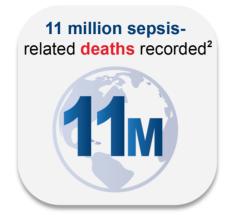


Sepsis – it's a big problem!



What is Sepsis?

Sepsis is a life-threatening inflammatory response to infection that has spread in the body.



Economic Impact

Is the most expensive condition to treat in the last 8 years⁵.

Double the average cost per stay across all other conditions⁵.



Social Impact

Kills more people in the US than **prostate**, **breast cancer** and **HIV/AIDS** combined⁴.

Currently no drug therapies specifically for the treatment of sepsis⁶.



Recently Approved Antibiotics – Benchmark for Pricing

Anticipated Pricing Benchmarks¹

- Though Xigris (activated protein C) was pulled from the market in 2011, its pricing represents a potential premium benchmark for a novel sepsis agent
- Fetroja, a recently approved agent for UTIs, was granted an NTAP by CMS with a maximum payment of ~\$8K for a patient treated with the agent
- Arikayce (Amikacin) is an aminoglycoside antibiotic. Used to treat certain kinds of bacterial infections in the lungs, with a potential pricing as low as USD \$27K

USD \$25,000 - \$30,000



)

USD \$15,000 - \$20,000



USD \$5.000 - \$10.000



USD \$1,000 - \$2,000

Fortaz Teligent

Physician Perspectives

"A novel molecule demonstrating convincing efficacy may get pricing up to \$15 – 20 K like Xigris." – Payer "Cost savings are important here; even if we don't see that many sepsis patients annually, the individual patient cost is very high." – Payer



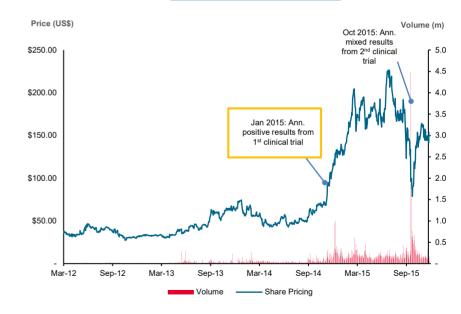


Successfully Completing a Clinical Trial Phase Can Lead to Significant Share Price Increase

Case studies: Other antibiotic companies

- Positive top line results from a global, pivotal Phase III clinical trial of solithromycin oral capsules (Solitaire-Oral) in the treatment of patients with community acquired bacterial pneumonia.
- Solithromycin met the primary and secondary objectives of non-inferiority compared to moxifloxacin.





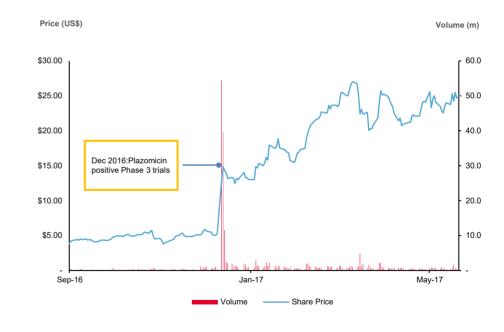


Successfully Completing a Clinical Trial Phase Can Lead to Significant Share Price Increase

Case studies: Other antibiotic companies

- In December 2016, Achaogen announces positive results in Phase III cUTI and CRE clinical trials of Plazomicin.
- EPIC registration trial successfully achieved FDA primary endpoints in patients with cUTI.
- Achaogen planned to submit a new drug application (NDA), which will include EPIC and CARE data, to FDA in second half of 2017.

ACHAOGEN





Large strategics are also paying attention

Case studies: Partnering antibiotic assets creates value

US\$66 million upfront and Up to US\$525 million in potential milestones plus royalties



Exclusive licence agreement for tebipenem HBr



GSK and Spero Therapeutics announce exclusive licence agreement for late-stage antibiotic that may treat complicated UTIs



Spero will start a new Phase III clinical trial in 2023, following encouraging US FDA regulatory feedback on the proposed clinical trial design



First oral carbapenem antibiotic to potentially treat complicated **urinary tract infections** (cUTI), including pyelonephritis, caused by certain bacteria





Many recent deals within the anti-infectives space have seen larger companies with an entrenched presence acquiring smaller Biotech's

Key Recent Deals in Infectious Disease

Companies Involved	Deal Details	Total Value	Key Takeaways
Pfizer amply	 Deal Date: April 2021 Deal Type: Acquisition of Company 	Undisclosed	 Amplyx was developing therapies for patients with compromised immune systems Antifungal lead compound, Fosmanogepix, in Phase 2 clinical trials
SANDOZ A Novartis	 Deal Date: February 2021 Deal Type: Acquisition of Brands 	Up to \$500 M	 Sandoz acquired GSK's cephalosporin antibiotics business including global rights to Zinnat, Zinacef, and Fortum \$350 M upfront and up to \$150 M in milestones
La Jolla	Deal Date: July 2020 Deal Type: Acquisition of Company	Up to \$75 M	 \$43 M upfront and up to \$32 M in milestones contingent on net sales of Xerava Tetraphase terminated previous agreement with Melinta given La Jolla's stronger offer
Roche	• Deal Date: March 2020 • Deal Type: Research Collaboration and Licensing	Up to \$190.5 M	 Roche licensed Forge's FG-LpxC LUNG, an antibiotic for treatment of lung infections attributed to antibiotic-resistant Gram-negative bacteria





Phase I Human Clinical Trial

- Study to assess IV infusion of RECCE® 327 in healthy male subjects as a single ascending dose.
- Randomized, double-blind, placebo-controlled, safety, tolerability and pharmacokinetics study.
- Single dose of a 1-hour via IV infusion at a uniform rate in hospital setting.
- Primary endpoint: vital signs, 12-lead ECG parameters, clinical chemistry, hematology, and urinalysis.

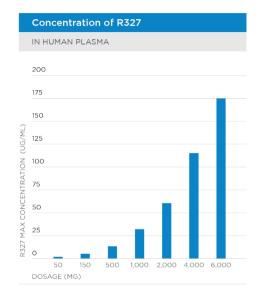
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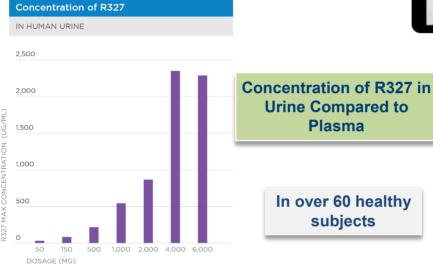


*Dose increase fold based off 50mg



Reason for Optimism in Treating UTI/Sepsis







Dr Alan Dunton's Clinical Update

Ratio

Urine/Plasma -

15x

13x

15x 17x

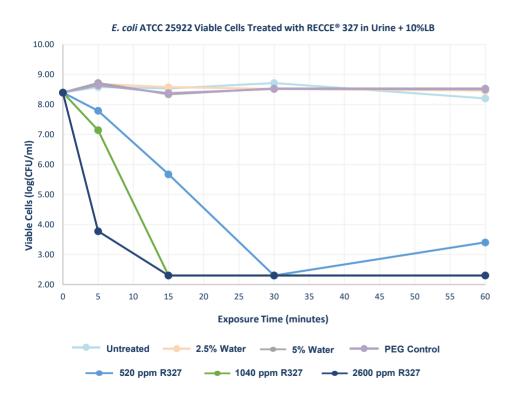
14x

20x 13x

- Opportunities for therapeutic in array of UTIs (uncomplicated UTI - single dose, complicated UTI, recurrent UTI, treatment resistant etc).
- Suggests broader anti-infective treatment model in pre-sepsis.
- R327 primary route of elimination appears to be through the kidney to the ureters and bladder.
- High concentrations of R327 noted in the urine of Phase I healthy subjects.
- Insight consistent with pre-clinical in-vivo kidney and UTI bacterial infection studies.



RECCE® 327 Kills Quickly in the Urine



- R327 in the presence of human urine was able to have a fast (near minutes effect against *E. coli* and irreversible
- Bacteria could not be 'washed out' and regrown
- R327 capability starting from comparatively low concentrations
- Achieved 6-log reduction in viable cell count

Understanding logs (example of a small colony of 1 million MRSA bacteria)* A 1-log kill reduces the colony to 100,000 MRSA bacteria after a 90% reduction A 2-log kill reduces the colony to 10,000 bacteria after a 99% reduction A 3-log kill reduces the colony to 1,000 bacteria after a 99.9% reduction A 4-log kill reduces the colony to 100 bacteria after a 99.99% reduction A 5-log kill reduces the colony to 10 bacteria after a 99.999% reduction A 6-log kill reduces the colony to 1 MRSA bacterium after a 99.9999% reduction



Patents

Four families across all major markets

Filed	Patent Family 1	Expiry	Patent Family 2	Expiry	Patent Family 3	Expiry
Australia	✓	2028	✓	2037	Accepted	2037
USA	✓	2029	✓	2037	✓	2037
Europe	✓	2028	✓	2037	✓	2037
Germany	✓	2028	✓	2037	✓	2037
Spain	✓	2028	✓	2037	✓	2037
France	✓	2029	✓	2037	✓	2037
UK	✓	2028	✓	2037	✓	2037
Italy	✓	2028	✓	2037	✓	2037
Sweden	✓	2028	✓	2037	✓	2037
Japan	✓	2028	✓	2037	✓	2037
China	✓	2028	Pending	2037	✓	2037
HK	Pending	2028	Pending	2037	✓	2037

Family 1 group relates to the Company's Unique and Highly Economical Manufacturing Process and use of the Polymer in Treatment of Diseases.

Family 2 relates to the Method of Manufacture, Administration and Application to Treat a Broad Range of Common Human Infections.

Family 3 relates to a Method of Treatment of a Broad Range of Viral Infections, particularly Parenteral Viral Infection.

Recce's patent portfolio contains over 40 patents and patent applications in the world's major markets.

Country	Title	Case_Status	Grant_Date		Family
Australia	ANTI-MICROBIAL POLYMERS AND THEIR	Granted	25/08/2011	Recce Pharmaceuticals Ltd	Family 1
	COMPOSITIONS			Dance Dharman with the Late	Familia 4
China	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	25/11/2015	Recce Pharmaceuticals Ltd	Family 1
France	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1
Germany	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1
	ANTI-MICROBIAL POLYMERS AND THEIR			Recce Pharmaceuticals Ltd	Family 1
Italy	COMPOSITIONS	Granted	7/10/2015		
Japan	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	3/10/2014	Recce Pharmaceuticals Ltd	Family 1
Spain	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1
0	ANTI-MICROBIAL POLYMERS AND THEIR	0	7/40/0045	Recce Pharmaceuticals Ltd	Family 1
Sweden	COMPOSITIONS	Granted	7/10/2015		
UK	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1
USA	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	1/09/2015	Recce Pharmaceuticals Ltd	Family 1
Australia	COPOLYMER AND METHOD FOR	Granted	8/11/2018	Recce Pharmaceuticals Ltd	Family 2
	TREATMENT OF BACTERIAL INFECTION		6/11/2018		
China	COPOLYMER AND METHOD FOR TREATMENT OF BACTERIAL INFECTION	Response Lodged		Recce Pharmaceuticals Ltd	Family 2
France	COPOLYMER AND METHOD FOR	Granted	28/08/2010	Recce Pharmaceuticals Ltd	Family 2
_	TREATMENT OF BACTERIAL INFECTION		23/00/2019		- " -
Germany	COPOLYMER AND METHOD FOR TREATMENT OF BACTERIAL INFECTION	Granted	28/08/2019	Recce Pharmaceuticals Ltd	Family 2
Italy	COPOLYMER AND METHOD FOR	Granted	28/08/2019	Recce Pharmaceuticals Ltd	Family 2
	TREATMENT OF BACTERIAL INFECTION		20/00/2013		
Japan	COPOLYMER AND METHOD FOR TREATMENT OF BACTERIAL INFECTION	Granted	25/10/2019	Recce Pharmaceuticals Ltd	Family 2
Spain	COPOLYMER AND METHOD FOR	Granted		Recce Pharmaceuticals Ltd	Family 2
opu	TREATMENT OF BACTERIAL INFECTION	oranio a	28/08/2019	Treese Friammacouncia Eta	, anny 2
Sweden	COPOLYMER AND METHOD FOR	Granted	28/08/2019	Recce Pharmaceuticals Ltd	Family 2
UK	TREATMENT OF BACTERIAL INFECTION COPOLYMER AND METHOD FOR	0		Recce Pharmaceuticals Ltd	Family 2
UK	TREATMENT OF BACTERIAL INFECTION	Granted	28/08/2019	Recce Pharmaceulicals Liu	Family 2
USA	COPOLYMER AND METHOD FOR	Granted	4010010040	Recce Pharmaceuticals Ltd	Family 2
	TREATMENT OF BACTERIAL INFECTION		12/03/2019		
Australia	ANTI-VIRUS AGENT AND METHOD	Accepted		Recce Pharmaceuticals Ltd	Family 3
China	FOR TREATMENT OF VIRAL INFECTION ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 3
China	FOR TREATMENT OF VIRAL INFECTION	Granted	22/06/2021	Recce Pharmaceuticals Ltd	Family 3
France	ANTI-VIRUS AGENT AND METHOD	Granted	04/04/0004	Recce Pharmaceuticals Ltd	Family 3
	FOR TREATMENT OF VIRAL INFECTION		21/04/2021		
Germany	ANTI-VIRUS AGENT AND METHOD	Granted	21/04/2021	Recce Pharmaceuticals Ltd	Family 3
	FOR TREATMENT OF VIRAL INFECTION	0		D Dh	Family 0
Hong Kong	ANTI-VIRUS AGENT AND METHOD FOR TREATMENT OF VIRAL INFECTION	Granted	25/02/2022	Recce Pharmaceuticals Ltd	Family 3
Italy	ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 3
	FOR TREATMENT OF VIRAL INFECTION	0.0.1100	21/04/2021		. animy 5
Japan	ANTI-VIRUS AGENT AND METHOD	Granted	18/12/2020	Recce Pharmaceuticals Ltd	Family 3
	FOR TREATMENT OF VIRAL INFECTION		10/12/2020		
Spain	ANTI-VIRUS AGENT AND METHOD	Granted	21/04/2021	Recce Pharmaceuticals Ltd	Family 3
Sweden	FOR TREATMENT OF VIRAL INFECTION ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 2
	FOR TREATMENT OF VIRAL INFECTION	Granted	21/04/2021	Recce Pharmaceuticals Ltd	Family 3
United	ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 3
Kingdom	FOR TREATMENT OF VIRAL INFECTION		21/04/2021		2, 0
	ANTI-VIRUS AGENT AND METHOD	Granted	00/00/00004	Recce Pharmaceuticals Ltd	Family 3
USA					
USA	FOR TREATMENT OF VIRAL INFECTION ANTI-VIRUS AGENT AND METHOD	Filed	29/06/2021		

In-house Manufacturing Capabilities

Manufacturing facility in Sydney's Macquarie Park

- Raw materials plentiful and cheap few \$/Kg
- No expensive waste 99.9% product yield
- Automated manufacture process taking approx. 1 hour
- 500 doses per fully automated run
- Quality and Quantity demonstrated capability to support present and future human clinical trials.
- Facility built to pharmaceutical specification.
- Packaging and labelling to international standards

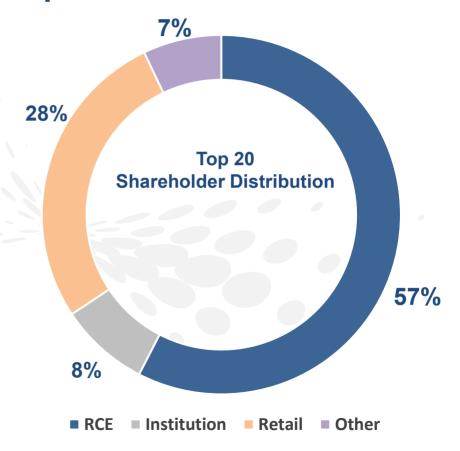






Recce Pharmaceuticals Ltd – Capital Structure

Snapshot		
Tickers	ASX: RCE , FSE: R9Q	
Market Cap (approx.) Priced at AUD \$0.60/share	AUD \$107 million	
Cash and deposits* 30 January 2023	AUD \$8.05 million**	
Outstanding shares	178.25 million	
Average daily volume 3 months	57.6k	
Debt	Nil	
**Includes cash balance of \$A1.84m and A\$6.21m from R&D rebate		





Thank you

James Graham

Managing Director and Chief Executive Officer Recce Pharmaceuticals Ltd ASX:RCE; FSE:R9Q

% +61 2 9256 2505

