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"Building a Healthy Future"

Annual General Meeting
October 2009

Company Overview

Objective	The development of products for respiratory and inflammatory diseases				
Lead products	Aridol: management of asthma and COPD				
	Bronchitol: therapeutic for cystic fibrosis and COPD				
Discovery	PXS25 (M6P receptor blocker). PXS4159 (VAP1 inhibitor)				
Listing	ASX (Nov 2003): PXS				
Locations	Sydney, NSW, Australia // Exton, PA, USA // Luton, UK				
Facility	GMP Manufacture of lead products				
Employees (FTE)	108				
Cash (30/09/09)	A\$113 million				
Shares outstanding	218m				
Options outstanding	15m				
Key patents	Aridol & Bronchitol granted in USA, Australia, Asia, Canada, Japan; pending in EU, Japan.				
Analyst coverage	CREDIT SUISSE KBS Morgans Wilson HTM CREDIT SUISSE KRBS Morgans Wilson HTM CREDIT SUISSE				

Year in review - milestones passed









1.	Phase 2 CF dose trial results positive		Aug 2008
2.	Phase 3 CF trial completes recruitment		Aug 2008
3.	12 month Phase 3 trial finds Bronchitol safe in br	ronchiectasis	Aug 2008
4.	Second CF Phase 3 trial (under SPA) commence	es recruitment	Sep 2008
5.	Bronchiectasis marketing application filed with To	GA	Sep 2008
6.	Aridol approved in Switzerland		Oct 2008
7.	New drug application for Aridol submitted to	US FDA	Feb 2009
8.	Dr Howard Fox joins senior management team		Feb 2009
9.	Richard van den Broek appointed director		April 2009
10.	Phase 3 CF trial demonstrates Bronchitol saf	e and effective	May 2009
11.	PXS25 presented at 2009 American Thoracic So	ciety meeting	May 2009
12.	New factory and headquarters completed and	d occupied	May 2009
13.	European marketing application review timetable	agreed with EU	June 200
14.	Completion of \$54 million capital raising		June 200
15.	Pharmaxis delists from Nasdaq		July 2009
16.	Second CF Phase 3 trial completes recruitment		Sept 2009
17	Phase 1 trial of PXS25 commences recruitme	nt	Oct 2009

Pharmaxis Global Operations 2009



Development Pipeline

-----Clinical Trial Phases-----

Aridol – asthma (Aus/EU/Korea)

Aridol – asthma (US)

Bronchitol – bronchiectasis (Aus)

Bronchitol – bronchiectasis (US/EU)

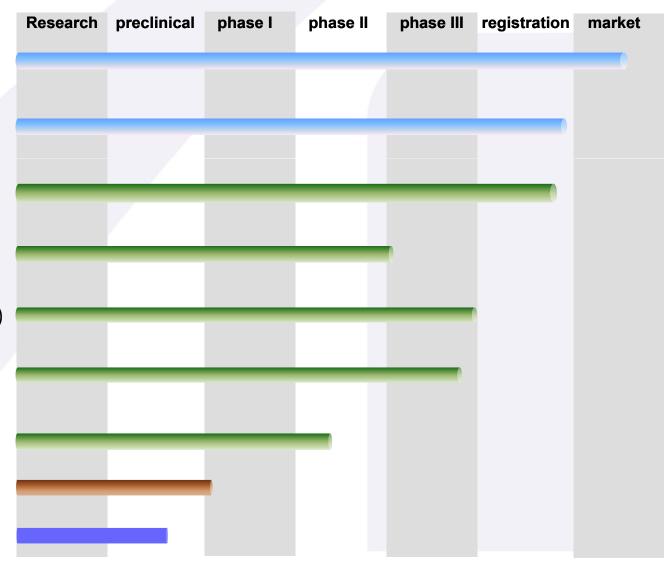
Bronchitol – cystic fibrosis (EU/Aust)

Bronchitol – cystic fibrosis (US)

Bronchitol – acute indications

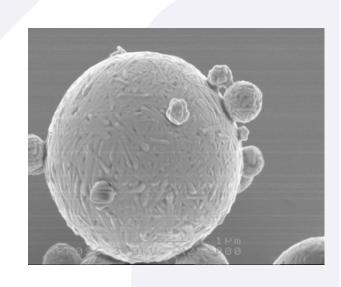
PXS25 – lung fibrosis

PXS4159 – asthma



Bronchitol



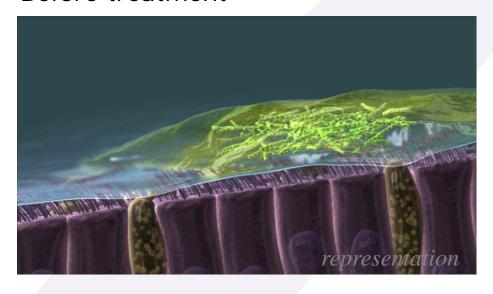


Mucus clearance:

Cystic fibrosis Chronic Obstructive Pulmonary Disease Bronchiectasis

Osmotic clearance of abnormal mucus

Before treatment

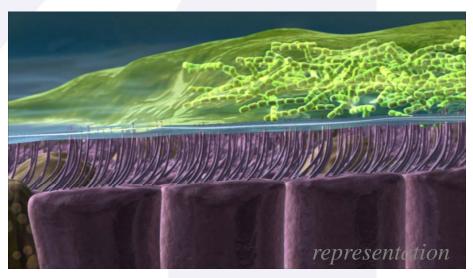


Lung surface dehydrated

Airway surface fluid layer impaired

Lung defense and hygiene compromised

After Bronchitol administration



Lung hydrated

Airway surface liquid restored

Normal lung clearance

Bronchitol – cystic fibrosis



Background

- Genetic disorder affecting 75,000 worldwide (30,000 in US)
- Poorly hydrated, tenacious, thick mucus
- Current life expectancy is 37 years (US)



Current treatments: rhDNase and tobramycin

- Delivered by nebulizer (preparation, sterilization)
- rhDNase (pulmozyme): global sales US\$440mm (2007)
- Tobramycin: global sales US\$233mm (2007)



Living with CF (Kate Smith)



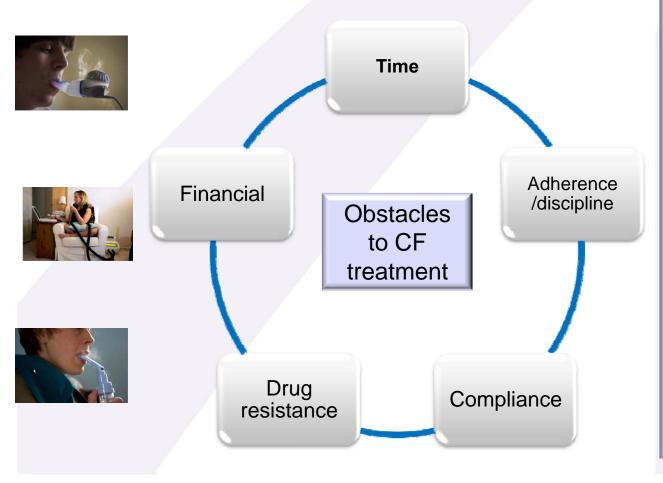
"My life expectancy is 31. I'm 29. So that's two years of parties, extreme sports and romance..."

The worst part of her disease:

- "I'd have to say the exhaustion. The rigorous exercise and physiotherapy regime required to help loosen the mucus on the lungs would tire anyone.
- It includes swimming, yoga, gym and physiotherapy where the rib cage is beaten with cupped hands. The reduced lung capacity makes it harder still to cope with everyday life let alone a full time job.
- The effect of absorbing a cocktail of drugs up to 50 pills per day – plus inhalers also saps the energy"

Cystic Fibrosis market research

The time commitment to treatment is the biggest challenge to physicians and patients



- •Time requirements and adherence to therapy are pervasive challenges
- -"the treatments take time. Although the payback is longevity and QOL, at the moment the treatments can take up a large part of the day."
- -"patients feel very pressed for time."
- -"Because of the time requirement, you have to prioritise meds sometimes. Do the biggest bang for the commitment buck."
- -"The time element is the key to adherence."
- -"Therapy gets in the way of daily activities 50 minutes two times a day!"
- Treating resistance to antibiotics is another challenge for physicians

Source: Willowdale market research

Bronchitol – the first CF specific dry powder

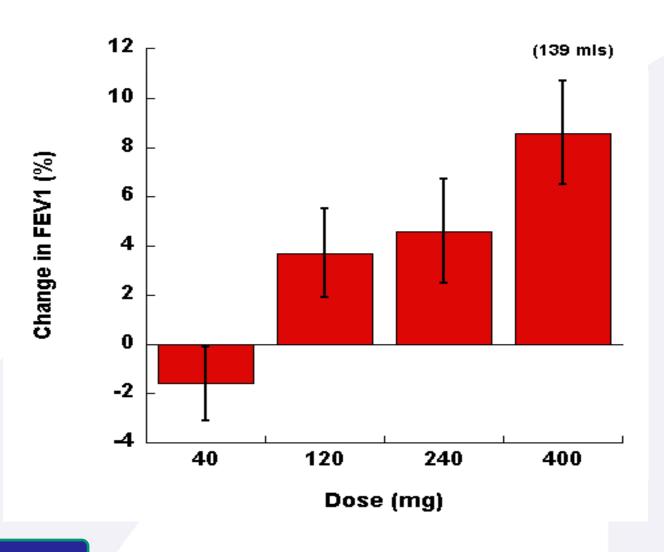






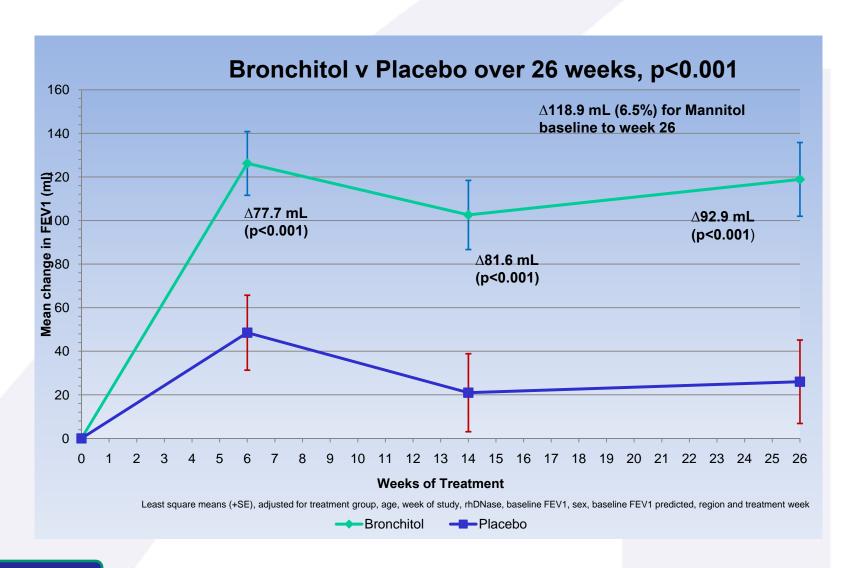


CF-202 Dose Response 400 mg Selected



- 48 subjects
- Open label multidose study
- 400mg twice a day, then 40, 120, 240mg twice a day for 14 days in a random order
- Washout between doses

CF-301 Absolute mean change (mL) in FEV₁



The Children's Hospital at Westmead unveil CF trial results



Bronchitol story receives international attention



Bronchitol: Target Product Profile



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Bronchitol:

- An easy, quick, portable dry powder inhaled drug that won't interrupt cystic fibrosis patient's daily schedules.
- Suitable for all ages and stages of cystic fibrosis
- Acts quickly to help clear mucus, producing a lasting benefit to lung function, reducing exacerbations and improving quality of life.

Market access Milestones:

- Phase 3 delivers Target Product Profile May 2009
 - Presentation of clinical trial results
 - > Oral presentation at EU CF meeting
 - Oral presentation at Au CF meeting
 - > Oral presentation at European Respiratory Society meeting
 - Oral presentation at North American CF meeting (October)
 - EMEA submission
 - ➤ Request for accelerated review submitted September 2009
 - Marketing application submission October 2009

Bronchitol: commercial reality in CF



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Market access:

- Core Pricing & Reimbursement dossier Q4 2009 (complete)
- National Pricing & Reimbursement dossier preparation 2010
- EU National marketing specialists recruited 2H 2009 / 1H 2010
 - Sales team recruitment Mid 2010
- NICE technology appraisal process complete 2H 2010
- Scientific advisory board consultation
- Patient advocacy group consultation
- Launch in Germany and UK after approval
 - UK infrastructure in place
- Reimbursement discussion for rest of EU



Market

- Top 5 countries (including UK and Germany) 27,000 CF patients
 - Addressable market is \$350 million
 - 350 CF Centres
 - Required field force: 25 sales reps
- 15,500 CF patients in Germany and UK
 - Addressable market is \$200 million (at \$13k/pt/yr)



Bronchitol – commercialisation in the U.S.



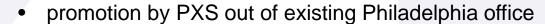
Clinical....

- Second pivotal Phase 3 trial closed to recruitment
 - 319 subjects recruited and data due 1H 2010
 - same end point as first pivotal Phase 3 trial reported in May 09

Regulatory....

- trial design agreed with FDA under Special Protocol Assessment
- fast track designation allows submission of rolling NDA
- opportunity for priority review
- response from FDA on NDA expected mid 2011
- orphan drug provides 7 years market exclusivity





- unified approach to pricing and reimbursement
- 150 CF centres requires 15 person field force
- 30,000 people in the US with CF
- addressable market >\$400 million





Treatment Progression – CFF Guidelines

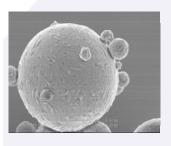
Grade of recommendation	Mild	Moderate/Severe	
A Benefit is substantial	-	rhDNase Tobi (if p.a. present)	
B Benefit is moderate	rhDNase Tobi (if p.a. present) Azithromycin (if p.a. present) Hypertonic Saline Ibuprofen (FEV1>60%) Inhaled B2 agonists	Hypertonic Saline Azithromycin (if p.a. present) Ibuprofen (FEV1>60%) Inhaled B2 agonists	
Insufficient evidence	Other inhaled antibiotics Oral corticosteroids (18+ yr olds) Leukotriene inhibitors / cromolyn sodium. Anticholinergic bronchodilators N-acetylcysteine		
Against		(if asthma / ABPA absent) roids (6-18 yr olds)	

There remains a lack of good quality long term studies evaluating existing treatments used in CF

Bronchitol - bronchiectasis







- Abnormal, irreversible dilation of the lower airways
- Daily mucus production, constant coughing, breathlessness, recurrent acute bronchitis with infective exacerbations: low quality of life
- In 30-50% of cases, the cause is unknown
- Normal lung clearance impaired
- Current treatments: bronchodilators, antibiotics
- No drugs proven effective to clear mucus

Number of bronchiectasis patients seeking treatment

	EU	Australia	USA	Asia	Total
% of pt pool seen by respiratory specialists	Average 14%	9%	N/A	Average 5%	
Trend	Stable or increasing	Stable	Increasing	Stable or decreasing	
Mod/Severe	55%	70%	55%	75%	
Patients seeking treatment	210,000	18,000	110,000	250,000 ++	600,000+

Prevalence: Much higher. Bronchiectasis is often missed but has been measured as >10% of COPD patients in a US patient cohort ~ 800k

Note: US Data comes from Datamonitor research, other data from Frost & Sullivan research

Bronchitol – bronchiectasis registration (I)...

1st Pivotal Phase III trial



- 363 patient, placebo controlled, double blind, randomised 12 week treatment (twice per day) + 12 month open label extension
- Primary endpoints
 - quality of life validated Patient Reported Outcome
 - mucus clearance 24hr sputum volume



Primary Analysis

 quality of L 	quality of Life	SGRQ, p<0.001 versus baseline
		SGRQ. p<0.05 versus placebo

•	mucus clearance	†30% ,	p<0.001	versus placebo
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antibiotic use reduction p<0.05 versus placebo

adverse events (52 wks) cough 9%, sore throat 5%
 no SAE attributed to treatment

First marketing application filed (Aus) in Sep 2008



Bronchitol – bronchiectasis registration (II)....



2nd Pivotal Phase III trial

- 350 patient, placebo controlled, double blind, randomised, 52 week treatment
- 400mg twice a day

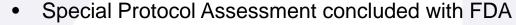
Primary endpoint

- Reduction in number of exacerbations
- Quality of life

Secondary endpoints

Exercise, mucus clearance, antibiotic use





Orphan Drug designation

Target commencement

Data

USA

October 2009

2011



Bronchitol – acute clearance of lung secretions



ICU, hospitalized patients and ventilated patients

- Currently supplied on request to patients with life threatening condition
- Feedback strong for proof of concept study
- Clinical conditions include: asthma, COPD, cystic fibrosis, secondary respiratory disease, neurogenic disorder



Objective

acute care pilot study (investigator led)
 Q4 2009

study in ventilated patients (PXS sponsored)
 Q2 2010



Market opportunity

- 60,000+ ICU beds worldwide 80 90% occupancy rates
 - Price \$200 per day ⇒⇒ \$500 million per year
- 75% patients ventilated / 75% have serious mucus problem



Aridol™

- Identifies airway reactivity (active airway inflammation) which helps physicians in the diagnosis and management of asthma
- An easy-to-use test kit provides rapid results and doesn't require specialized equipment



International regulatory status - Aridol





First market to launch

• 50% penetration in 2 years June 2006

Europe

Approved European Union (MRP)
 May 2007

Regional marketing partners appointed

Launches underway

South East Asia

Approved for marketing – Korea
 Jan 2008

Pricing approval completed Sep 09



USA

NDA submitted. Complete response expected Dec 2009

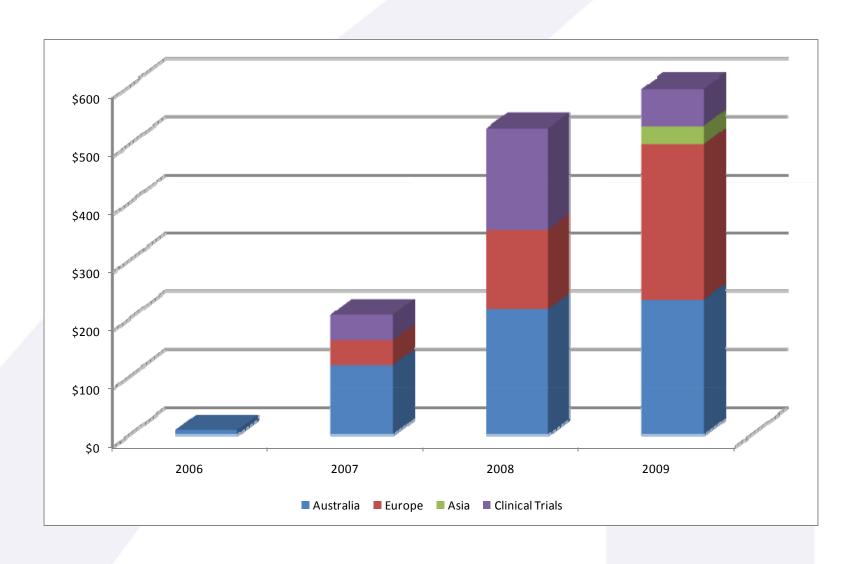
Aridol – growth markets

	USA	KOREA	GERMANY
Existing Market size	200,000 tests p.a.	120,000 tests p.a.	660,000 tests p.a.
Pricing	+++	+	++
Market drivers	Physician reimbursement	Physician reimbursement	Physician reimbursement
	Private physician market.		Private physician market
Entry route	Pharmaxis	Distributor	Distributor

Steroid Management

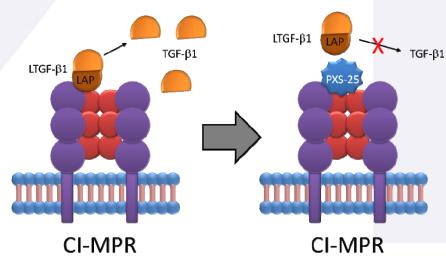
TRIAL	Data
ACRN 'BASALT' study	Q1 2009, Q1 2010
EU steroid response	1H 2010
EU steroid titration	1H 2010

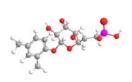
Aridol Sales



R&D - Status (PXS-25)

- \Box Inhibits cleavage of latent TGF β to active TGF β
 - anti-fibrotic agent with anti-inflammatory properties
 - Small molecule with robust pharmaceutical profile
 - Clinical target is pulmonary fibrosis
 - > 500,000 cases and no approved drugs
- Phase 1 trial commenced October 2009
 - data due end 2009











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Chief Financial Officer

David McGarvey

Manufacturing Capacity







- Manufactures Aridol for sale in EU, Asia & Australia
- Manufacture Bronchitol for clinical trials



- New facility
 - Relocated May 2009
 - Equipment installation & validation complete Q4 2009
 - Complete process validation Q2 2010



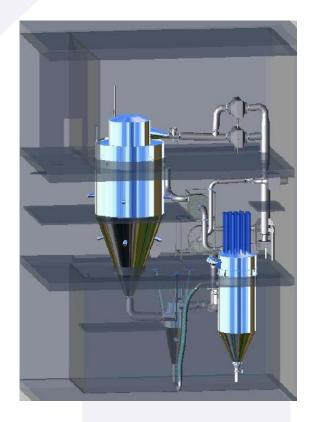
- Initial capacity 1 spray drier: 40,000 patients p.a.
- Expanded capacity 2nd spray drier: 80,000 patients p.a.



Manufacturing

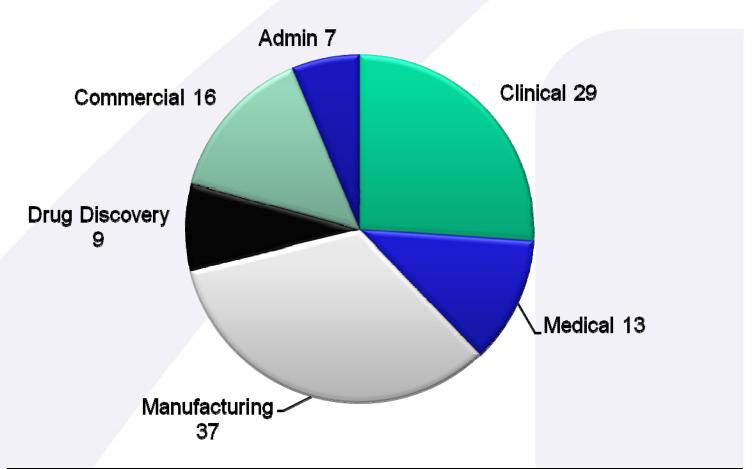


Central sections of spray drier



- Manufacturing area: 4,000 sm
- Manufacturing equipment: \$9m
- Initial capacity: 40,000 patients pa
- Double capacity ~ \$10m

Employee Headcount at September 2009



Australia	UK	USA	China	Total
86	16	8	1	111

Financial Statements

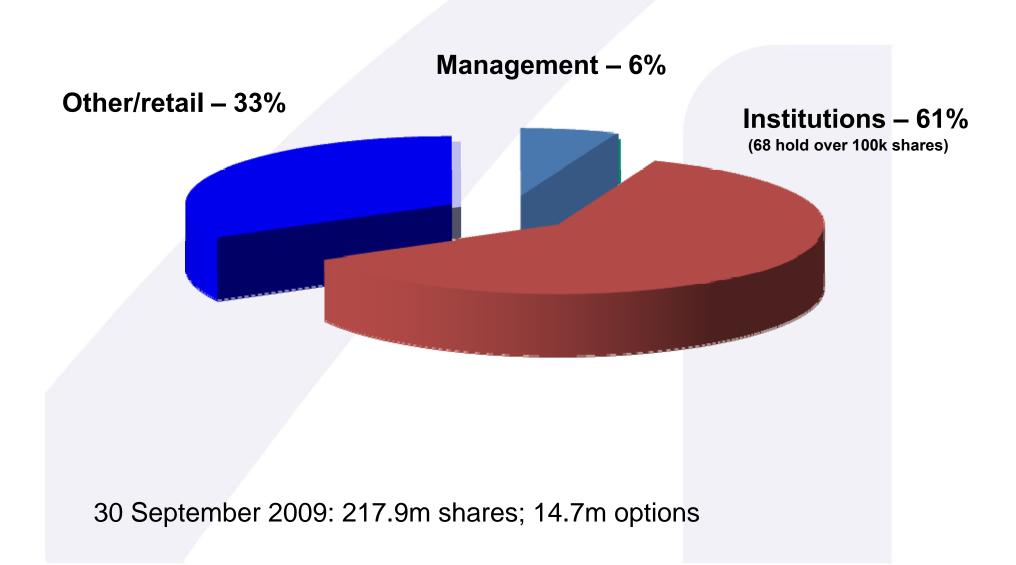
	Year ended 30 June				
	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Income Statements	<u> A\$'000</u>	A\$'000	<u>A\$'000</u>	<u> A\$'000</u>	A\$'000
Revenue from sale of goods	-	8	205	527	595
Cost of sales	-	(2)	(49)	(129)	(153)
Gross profit	-	6	156	398	442
Other income					
Interest	1,702	4,282	5,278	7,402	5,347
Other income	1,219	1,299	2,152	1,576	523
Expenses					
Research & development	(9,269)	(16,978)	(23,840)	(19,996)	(29,308)
Commercial	(963)	(1,946)	(3,240)	(4,557)	(6,202)
Administration	(3,134)	(4,391)	(4,666)	(5,231)	(5,800)
Finance	-	-	-	-	(122)
Total expenses	(13,366)	(23,315)	(31,746)	(29,784)	(41,432)
Net loss before tax	(10,445)	(17,728)	(24,160)	(20,408)	(35,120)
Income tax expense	-	(5)	(19)	(32)	(51)
Net loss after tax	(10,445)	(17,733)	(24,179)	(20,440)	(35,171)
Earnings (loss) per share - \$	(0.084)	(0.111)	(0.136)	(0.108)	(0.180)
Depreciation & amortisation	646	947	939	1,024	1,265
Fair value of employe options issued	260	1,488	1,488	3,434	2,432

Financial Statements

			As at		
	<u>30-Jun-05</u>	<u>30-Jun-06</u>	30-Jun-07	<u>30-Jun-08</u>	<u>30-Jun-09</u>
Balance Sheets	<u>A\$'000</u>	<u>A\$'000</u>	<u>A\$'000</u>	<u>A\$'000</u>	<u>A\$'000</u>
Cash and cash equivalents	33,390	97,840	76,182	111,842	124,993
Plant & equipment	2,477	3,205	3,521	3,668	32,698
Total assets	37,937	104,267	82,648	125,049	163,997
Total liabilities	(2,470)	(5,379)	(6,089)	(5,928)	(26,306)
Contributed equity	54,716	134,745	135,108	194,680	245,958
Total shareholders' equity	35,467	98,888	76,559	119,121	137,691
Share Data	<u>'000</u>	<u>'000</u>	<u>'000</u>	<u>'000</u>	<u>'000</u>
Ordinary shares on issue	134,770	176,904	177,949	194,515	217,659
Options outstanding	10,914	9,692	9,836	11,536	15,075

Share Capital

(including options)



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