

ASX: PAA

ACN 094 006 023



**PharmAust**  
L I M I T E D

Presentation (25<sup>th</sup> July 2019)

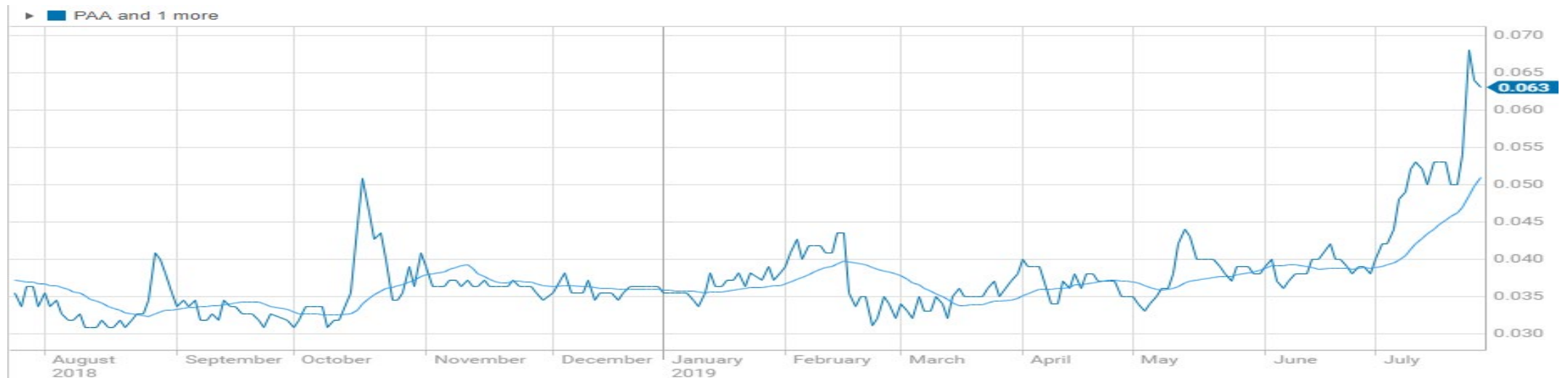
# Corporate Structure



# Corporate Snapshot

<b>ASX Code:</b>	<b>PAA</b>
Market Cap at \$0.064	\$17.65
Cash (approx.)	\$2M
Debt (EFIC)	\$325K
Epichem Revenue Forecast 2019-2020	\$4.2M

<b>Total Shares on Issue</b>	<b>280,221,192</b>
Options (Unlisted)	56,895,412
Top 20 Own	37%
Board/Exec Own	9.3%



# Strategic Overview

- **PharmAust: Clinical-stage oncology** company
- Lead product is **Monepantel** (MPL) – a repurposed drug already approved for Veterinary use by Elanco US Inc
- PharmAust **patented MPL** as an **anti-cancer drug**
- **Clinical strategy** targeting **MPL** for **vet and human** applications
- **Option Agreement** with **Elanco US Inc** for veterinary cancer applications
- **Epichem**: profitable business, forecast revenues of \$4.2m in FY2019/20

# Experienced Board & Management Team

## Dr. Roger Aston, Executive Chairman

- > 30 years experience in the pharmaceutical and healthcare industries.
- Director or chairman on a number of boards carrying out late stage drug development.

## Robert Bishop, Executive Director

- > 30 years experience in corporate finance and equity capital markets
- Lawyer and an investment banker.

## Neville Bassett, Non-Executive Director

- Member of the Order of Australia (AM)
- > 35 years working in accounting, finance and stockbroking

## Sam Wright, Director & Company Secretary

- > 20 years experience in biotech and healthcare.
- Extensive experience in relation to public company responsibilities, including ASX and ASIC compliance, corporate governance, statutory financial reporting, and shareholder relations.

## Dr Richard Mollard, Chief Scientific Officer

- > 20 years experience in biotech and pharma
- Extensive national and international experience.

## Dr Wayne Best, Epichem Chairman

- > 30 years experience in synthetic and medicinal chemistry in academia and industry
- Chairman of PharmAust's subsidiary Epichem

# Monepantel Oncology Programme:

## Preparing for Pivotal Phase II Trial in Canine Cancer During 2019

# Clinical Outcomes To Commercial Opportunities

Human Phase I Trial  
(efficacy / poor  
taste)

Pilot phase II (2017) in lymphoma trial in dogs  
Shows MPL effective at Progression-Free Survival  
Using poor formulation

mTOR pathway  
(p-p70S6K)

Extensive Reformulation Program: 2018 - 2019  
Establishes New, High Dose, Palatable Tablet

Extensive Phase I Program During 2019 Establishes  
Optimum Dosing for Canine Trials

PIVOTAL PHASE II TRIAL 2019

COMMERCIAL AND CLINICAL OUTCOMES

**Elanco**

ACCELERATED HUMAN DEVELOPMENT PROGRAM

# Why MPL for Cancer?





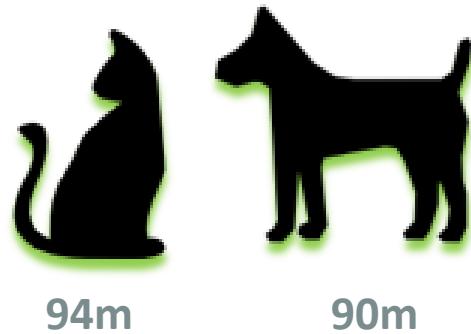
# >\$2 Billion market for approved mTOR Drugs





Drug	Approved Indications	Company	2016 Sales (US\$m) <sup>1</sup>
Sirolimus	Transplantation	Pfizer	170
Rapalogues (Afinitor/Torisel)	Transplantation Renal Cell Carcinoma Breast Cancer Pancreatic Neuroendocrine Tumours Mantle Cell Lymphoma	Novartis/Pfizer	>2,000

1. Global Data

# Trends in Companion Animal Health Market (US:2016)

## US Dog/Cat Populations (2016)<sup>1</sup>



-  Total Pet Expenditure: \$70b<sup>1</sup>
-  Vet Care Expenditure \$17b<sup>1</sup>
-  Pet drug market \$10.2b by 2018<sup>2</sup> (8% CAGR)
-  Willingness to pay more for treatment<sup>3</sup> (\$2K-\$5K/treatment)

1. [http://www.americanpetproducts.org/press\\_industrytrends.asp](http://www.americanpetproducts.org/press_industrytrends.asp) 2. Competition in the Pet Medications Industry (2015) 3. AP-Petside.com Poll, conducted by GfK Roper Public Affairs and Media: April 7-12, 2010

# Pets and Cancer

- 1 in 4 dogs die of cancer 
- Pets are living longer (50% dogs > 10 yrs die of cancer)
- 6 million dogs diagnosed with cancer in US/yr
- Significant **unmet need** for **new** oncology drugs (US\$500m - USD\$1b market)
- **Side effects** associated with products and treatments are **limiting market growth** (**Monepantel** comparatively has **little or no side effects**)
- Vet **therapeutic market** dominated by **repurposed drugs** already approved for use in humans and/or animals (= **monepantel**)



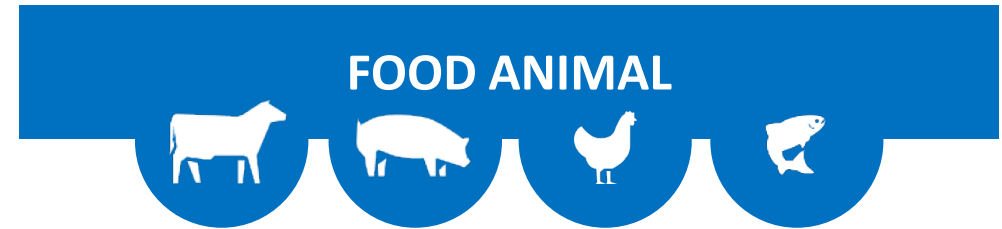
Elanco strategically enters therapeutic oncology arena by the purchase of Aratana  
Elanco Global No. 3 Animal Health Company





# Product Areas of Focus

Elanco is an established leader with flagship brands and a global presence. They're focused on investing and innovating in the animal health priorities that mean the most to their customers and the animals in their care.



**Companion  
Animal Disease  
Prevention**



**Companion Animal  
Therapeutics**



**Food Animal  
Future Protein  
& Health**



**Ruminants  
& Swine**



*Our Formula. Your Success.*

## Our Australian chemistry team are expert service providers for:

- Synthetic & Medicinal Chemistry
- Pharmaceutical Reference Materials
- Custom Synthesis
- Analytical Chemistry
- Technical Problem Solving
- 15 Years success in helping clients worldwide
- Export Award Winners
- Registered Research Agency



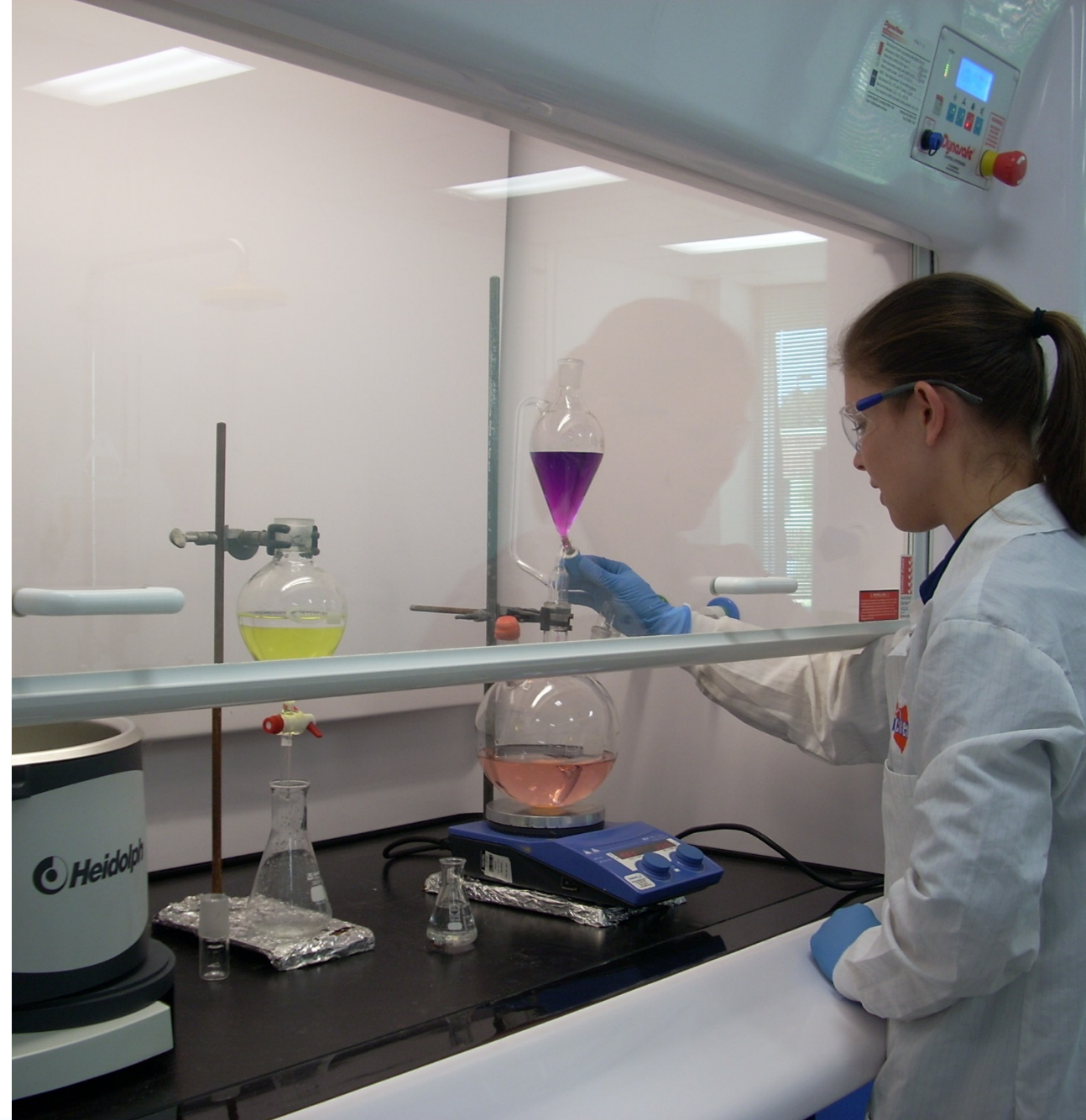
# Epichem

Our mission is to deliver world-class innovative solutions in synthetic and medicinal chemistry.

# Epichem has the best equipped private laboratories in the Southern Hemisphere for small molecule synthesis

## Our Facility

- State-of-the-Art laboratories purpose built in 2015 and expanded in 2018.
- Nineteen fume hoods and room to grow.
- Leading-edge technology for organic synthesis on a milligram to multigram scale.
- Extensive range of equipment to support synthesis, purification and analysis.
- Quality accredited to ISO 9001 and ISO 17034.
- 27 Staff, 25 STEM qualified, 18 PhD qualified chemists.



# PharmAust – current status and next steps

- Successful rights issue earlier in year (cash now \$2m)
- Successful micronisation and tablet manufacture
- Phase II canine trial on dogs with lymphoma – imminent
- Open label trial – interim dossier to be presented to Elanco Nov/Dec 2019
- Elanco Option Agreement covers veterinary uses
- Canine success would open door to Human use in much larger market
- Epichem – state of the art laboratories a key to further growth and profitability



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