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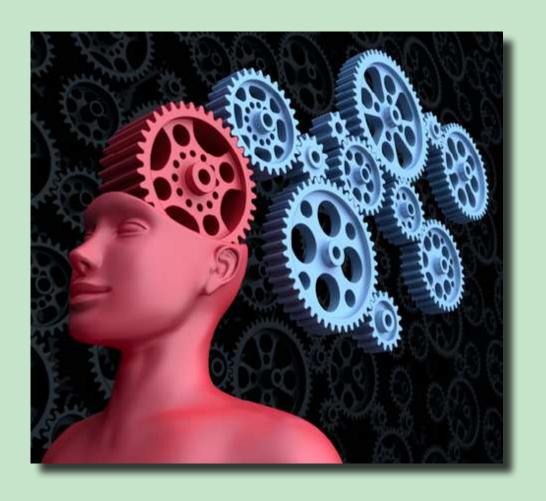
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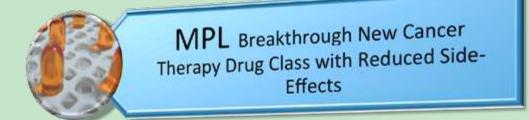
PHARMAUST LIMITED

...Fast tracking leading edge technology in cancer therapy...





PharmAust Cancer Programs









PHARMAUST LIMITED CORPORATE STRUCTURE

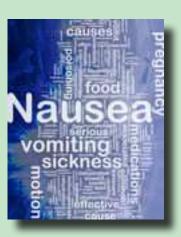




PharmAust -> Challenging Limitations in Cancer Therapy

- Drug Toxicity
- Drug Resistance
- Cancer Recurrence
- Poor Tumour Targeting
- Poor Diagnosis -> Patients Progressed at Treatment
- Optimising Treatment
- Survival vs Quality of Life







PHARMAUST STRATEGY

Oncology Focus

 Targeting oncology applications of well established drugs and piggybacking" on substantive programmes of major pharmaceutical companies

Leading New Drug for Cancer Management Engaging a leading clinical oncology units (St George Hospital, Sydney)
 and The Royal Adelaide Hospital

Phase II Clinical Stage

 Granted patents or patent filings (either owned outright or jointly with partner)

Strategic
Partnerships
with two Global
Corporations

- Relationships with major global corporations
- Use of CROs and external R&D suppliers



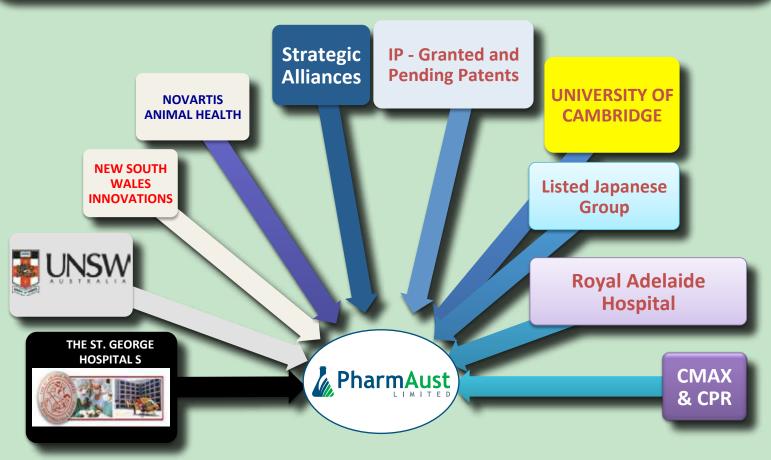


Targeted Therapies for Cancer

| Recent Examples of New Targeted Therapies | | | | |
|---|---|-------------------------|-----------------------------|---------------------|
| DRUG | TARGET | PEAK ANNUAL SALES | PATIENT COST | COMPANY |
| HERCEPTIN + PACLITAXEL | BREAST CANCER (HER2-NEU) | \$6.5Bln | \$60,000/ ANNUM | GENENTECH/ ROCHE |
| GLEEVEC | MULTIPLE CANCERS TYROSINE KINASE | \$4.7Bln | \$92,000/ ANNUM | NOVARTIS |
| AVASTIN + 5FU | COLON, RENAL, OVARIAN CANCER VEGF INHIBITOR | \$2.6Bln | \$100,000 /ANNUM (US) | GENENTECH |
| ABRAXANE + GEMCITABINE | PANCREATIC CANCER | \$800M | \$60,000/ ANNUM | CELGENE |



Pharmaust Limited Foundations, Relationships and Commercial Cornerstones









MONEPANTEL (MPL or PPL-1)

- 1. MPL is a new class of anticancer drug
- 2. MPL can act alone or in combination with standard of care chemotherapy for treatment of cancer
- 3. Pharmaust has the IP for MPL assigned from the University of NSW





MONEPANTEL'S UNIQUE PROPERTIES

- Unlike most cancer drugs, MPL has virtually little or no toxicity based on the toxicology undertaken by Novartis Animal Health
- MPL has shown a high degree of selectivity in killing cancer cells over normal cells in culture
- Studies in animal models show potent tumour regression without toxicity as measured by weight loss
- MPL demonstrates a potent synergistic action with many cytotoxic drugs used in "Standard of Care"





EFFECT OF MPL ON TUMOUR-BEARING MICE

Dose-finding study of IP administered Drug in nude mice bearing Subcutaneous ovarian tumours (OVCAR-3), SC / IP



Control Group VEHICLE



Low dose Group MPL (25 mg/kg) DRUG



High dose group MPL (50 mg/kg) DRUG



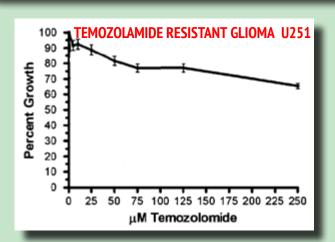
Monepantel Kills Drug Resistant Cancer Cells

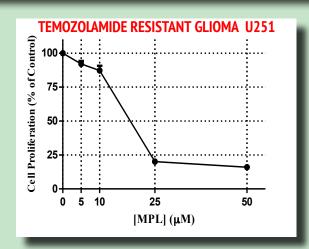
- Temozolamide resistant cancer cells are effectively killed by MPL
- MPL has little toxicity on "Normal" Human Embryonic Kidney Cells
- MPL offers Treatment Optins either singularly or with "Standard of Care"

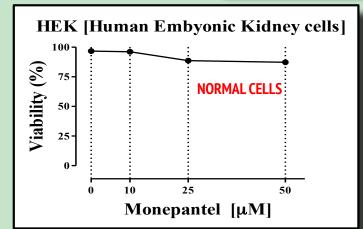




EFFECT OF MPL ON CANCER CELLS









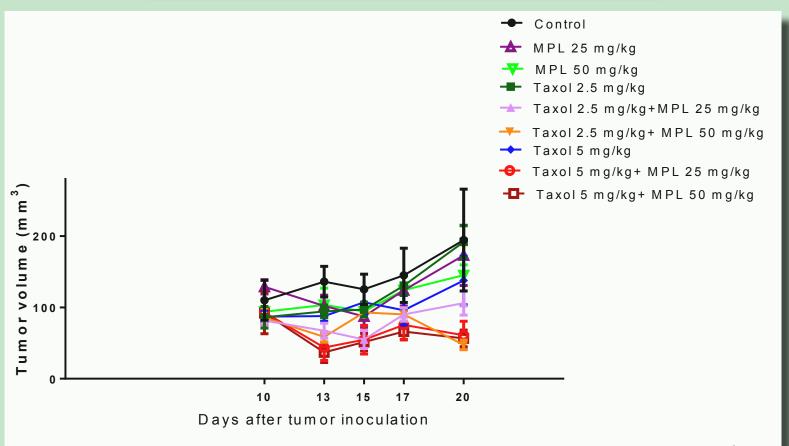
SYNERGY BETWEEN AMINOACETONITRILES AND CYTOTOXIC DRUGS

- Selective Synergy between MPL and cytotoxic drugs on "cancer" cells
- Little synergy between MPL and cytotoxic drugs on "normal" cells
- Opportunity for "New Class" of drug for cancer
- Therapy in conjunction with standard clinical practice
- Optimization of Synergy





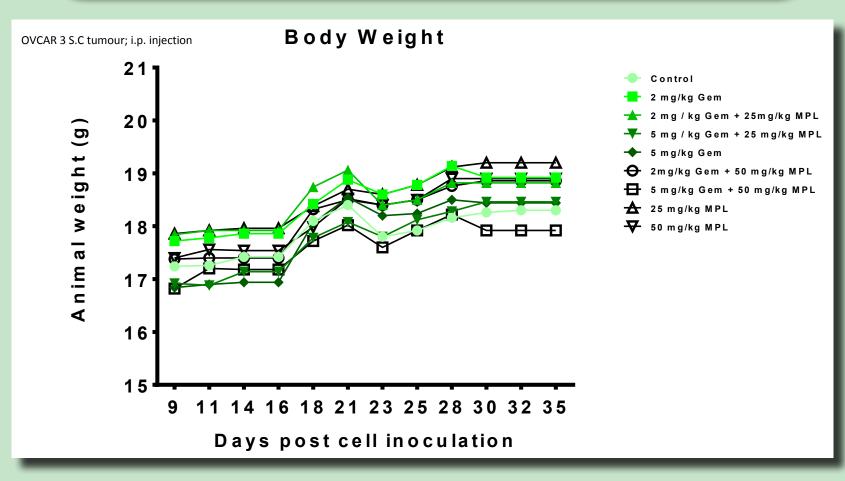
Synergy with Taxol



Comparison of tumour volume V.s. treatment time in mice treated with MPL/ Taxol alone or in combination (after 5 doses).



Lack of PPL-1 Toxicity as Measured by Weight Loss





Human Safety Trial - Monepantel

ACCELERATED ENTRY INTO MAN DUE TO EXTENSIVE TOXICOLOGY BY GLOBAL MAJOR

- Patient #1 -> Discontinued after 3 days (drug-unrelated death)
- Patient #2 -> Completed 28 days
- Patient #3 -> Discontinued after 13 days (urinary tract infection)
- Patient #4 -> Discontinued after 4 days (did not wish to continue)
- Patient #5 -> Completed 28 days
- Patient #6 -> Completed 28 days

Successful Demonstration of Safety and Indication of Clinical Value by Suppression of Key Cancer Marker





Target Markets

Monepantel offers a new therapeutic regimen with or without standard Chemotherapy. The current Chemotherapy market is US\$42 billion/annum.





Canine Trial No Adverse Events Noted

- Four Dogs Received MPL (25mg/kg) compassionately
- Three Dogs treated with the lowest dose of MPL (25mg/kg) as part of trial

Tasteless Formulation of MPL in Soft- Gel Capsules





Albendazole for the Treatment of Ascites

Two Clinical Trials Completed Showing:

- 1. Maximum tolerated dose
- 2. Benefits in Localised Therapy in the abdomen
- 3. Significant Inhibition of VEGF





Albendazole Ascites I

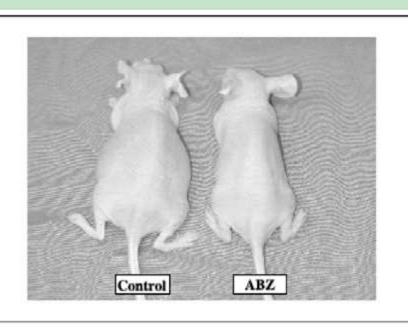


Fig. 1. Effect of albendazole (ABZ) on ascites development. Nude mice inoculated i.p. with OVCAR-3 cells were left to develop ascites and then randomly assigned to one of control or albendazole treatment groups (n = 10 per group). Whereas all mice in the control group developed overt ascites, there were no macroscopic signs of ascites formation in albendazole-treated mice.

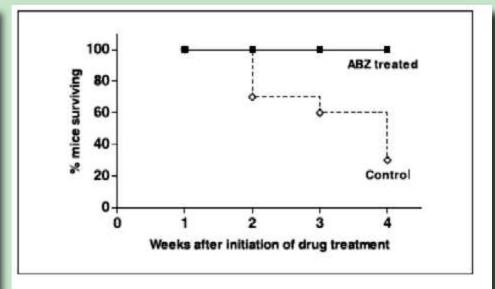
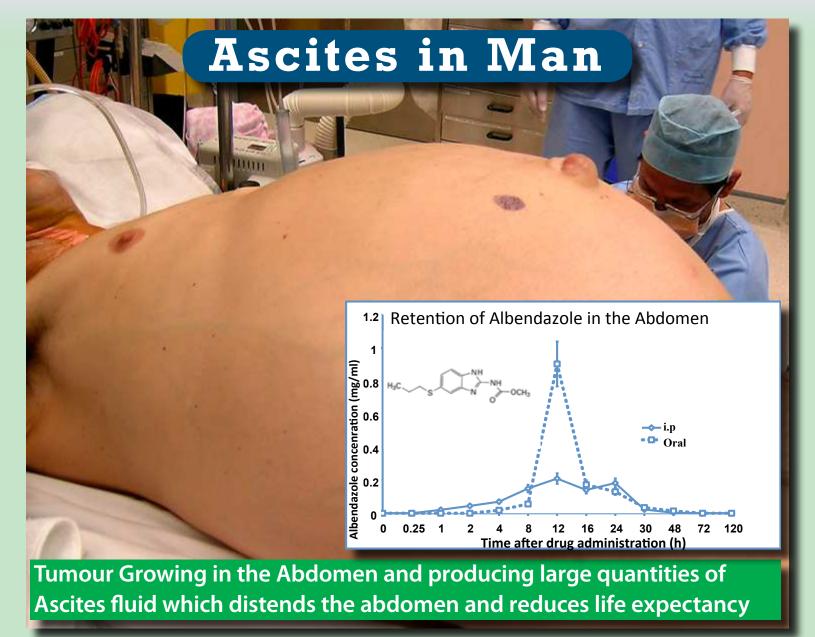


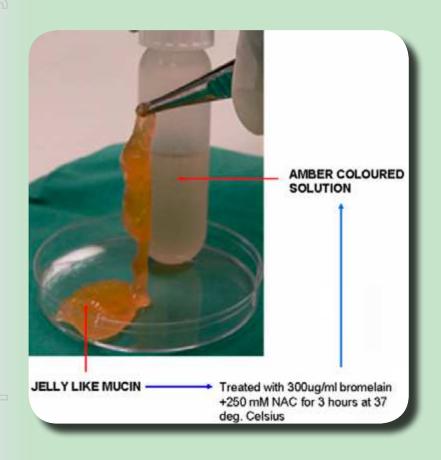
Fig. 3. Survival curve showing the effect of albendazole (ABZ) on survival. Whereas for all animals the intended duration of treatment was 4 weeks, mice (10 per group) were euthanized if due to ill health, they were expected to become moribund within a short time. Survival was calculated as the number of days lapsed between initiation of treatment and euthanasia, and % mice surviving was the number of animals remaining in each group (×10) at the end of each week following initiation of treatment.







Mucin Dissolution



Efficacy of a Novel Mucolytic Agent on Pseudomyxoma Peritonei Mucin with Potential for Treatment through Peritoneal Catheters.



EPICHEM

Epichem is a profitable wholly owned subsidiary of PharmAust which provides services in synthetic and medicinal chemistry to the drug discovery and pharmaceutical industries. Epichem turnover is \$2.0M/annum. With two state-of-the-art laboratories in Perth and Melbourne, Epichem serves an international clientele ranging from small operations to large multinational pharmaceutical companies. Epichem's ability to excel in a highly competitive global marketplace was recently recognized when in 2010 it won an Australian Export Award. It has achieved this by combining a world-class team (12 Ph.Ds) of highly innovative chemists and a management committed to customer service.



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