



# Annual General Meeting



*31 October 2012*

**Dr. Marie Roskrow**  
**Chief Executive Officer**

**ASX: PAB**

# Safe Harbour Statement

The following material is for general information purposes only and is not to be relied upon for the making of an investment decision. Any investment in Patrys Limited ACN 123 055 363 (Patrys) is subject to investment risk including the possibility of loss of capital invested and no return of income or payment of dividends. Neither Patrys nor any other entity or person in or associated with the Patrys group of companies guarantees any return (whether capital or income) or generally the performance of Patrys or the price at which its securities may trade.

In particular, this presentation is not a recommendation, offer or invitation to subscribe for or purchase Patrys securities. It is not for general distribution or third party reliance or use. While it has been prepared from sources Patrys believe to be reliable, Patrys cannot guarantee its accuracy or completeness and undertakes no obligation to advise of changes or updates to any such materials.

These materials are not exhaustive of all of the information a potential investor or their professional adviser would require. Nor do these materials take into account any specific objectives, financial situation or needs of investors. In addition, the past performance of Patrys cannot be assumed as indicative of the future performance of the company. For these and other reasons, before making any investment decision regarding Patrys securities you are strongly recommended to obtain your own up to date independent legal, financial and investment advice – those acting without such advice do so at their own risk.

Where this presentation does contain any forward looking statements, those statements are only made as the date of the presentation and are to be considered “at-risk statements” not to be relied upon as they are subject to further research and to known and unknown risks, uncertainties and other factors that may lead to actual results differing from any forward looking statement. This is particularly the case with companies such as Patrys which operate in the field of researching, discovering, developing, and commercialising potential drugs intended for safe and effective for human treatments or therapies.



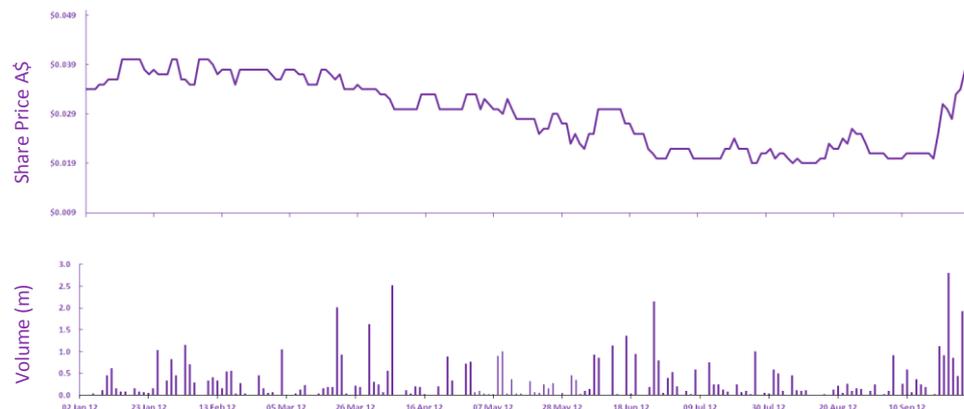
# Corporate Overview



## KEY STATISTICS – 30 SEPTEMBER 2012 (AUD\$)

ASX Code	PAB
Current share price	\$0.038
52 Week High	\$0.06
52 Week Low	\$0.015
Shares on Issue	507,287,177
Market Capitalisation	\$19.3 m
Average Daily Volume	~400,000
Shareholders	
Founders/Mgt	30%
Institutional	29%
Retail	41%

## 2012 SHARE PERFORMANCE



## SENIOR MANAGEMENT AND BOARD OF DIRECTORS

John Read: BSc (Hons), MBA, FAICD: Chairman, CVC Ltd

Marie Roskrow: BSc. (Hons), MBBS (Hons), Ph.D: MD, CEO

Alan Robertson: BSc., Ph.D: Non Executive Director, Pharmaxis Ltd

Suzy Jones: Non Executive Director, DNAink

Michael Stork : BBA: Non Executive Director

Roger McPherson: CPA, GAICD: CFO & Company Secretary

Deanne Greenwood: BSc. (Hons), Ph.D, MBA: Senior Director BD

Frank Hensel: Ph.D: Vice President R&D

## 2012 NEWS

- Oct. 2012- Award for preclinical data on PAT-SM6 for MM
- Sep. 2012- PEI Approval received for MM Trial  
PAT-SM6 data published by PLOS
- Aug. 2012 - Capital Raising - \$2.8m
- May. 2012 - Key patent granted for PAT-SM6
- Mar. 2012 - Successful PAT-SM6 melanoma trial, full data released
- Feb. 2012 - Completion of PAT-SM6 melanoma clinical trial
- Dec. 2011 - Suzy Jones joins Patrys Board  
Capital Raising - \$3.4 m



# FY12 Capital Raisings

**2 December 2011**

**22 June 2012**

**Amount: \$3.4m**

**Amount: \$2.8m**

**Issue Price: 3 cents per share**

**Issue Price: 2 cents per share**

**Method: Share Placement**

**Method: Share Placement  
&  
SPP**

**Current cash position (Sept. 2012): \$7m  
Runway to early 2014**



*Patrys made significant progress in the clinic: Completed melanoma trial, prepared to commence multiple myeloma trial*

## PAT-SM6

### Clinical:

- Phase 1 single-dose melanoma study completed Feb. 2012**
  - Safe & well tolerated in all treated patients
  - Detected presence of PAT-SM6 in tumours of 3 treated patients
  - Some evidence of apoptosis in tumours post treatment
  - Paper submitted for publication
- Phase I/IIa multi-dose multiple myeloma study to commence 4Q2012**
  - Full regulatory approval received from Paul Ehrlich Institut, Germany
  - Ethics approval from University Hospital, Würzburg

### Preclinical:

- Preclinical MM work awarded top prize at DGHO 2012 congress (paper submitted)
- Granted key US patent around binding of SM6 to LDL and components of LDL
- PLOS ONE publication resulting from ARC linkage grant (University Melbourne)
- Commenced collaboration with University Belgium: Murine models of MM



## PAT-SC1

### Preclinical:

- Out-licensing project underway (Japan & South Korea)
- Add. purification work ongoing with collaborators in Singapore
- Paper submitted for publication (clinical trial survival data)

## PAT-LM1

### Preclinical:

- Commenced collaboration with University WA: Target / IP work
- New recombinant cell-line produced, in scale-up process
- Preclinical work focussing on haematological cancers

## PAT-SM3, 5,NM3

### Preclinical:

- Early-stage work on 3 “new” antibodies. Focus on haematological cancers



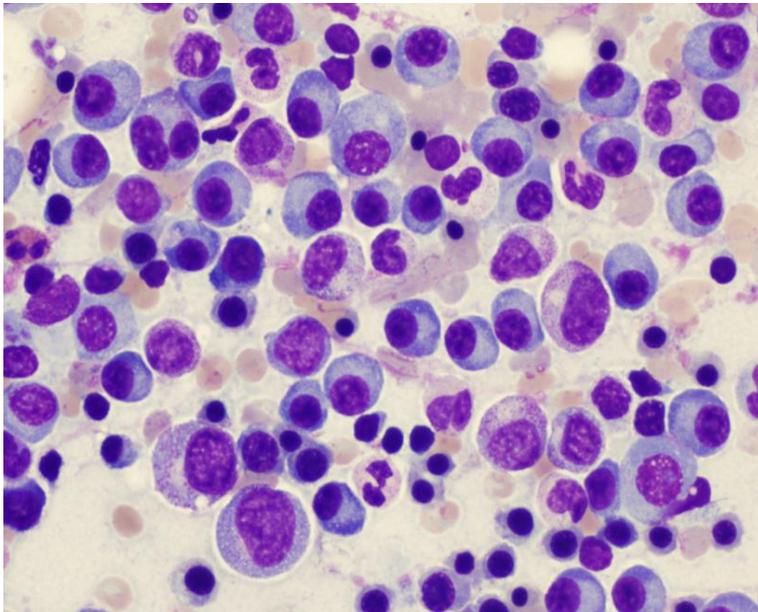
# Multiple Myeloma - Opportunity

- ❑ A cancer of the plasma cells in bone marrow. These cells grow out of control and form tumours in solid bone, cause damage to other organs
- ❑ Estimated to be more than 220,000 cases worldwide and incidence increasing
- ❑ 5 year survival of 29%. Despite new marketed therapies, disease remains largely incurable and fatal
- ❑ Market expected to increase from ≈\$4.4B (2011) to >\$7.2B (2021)
- ❑ MM market dominated by 3 products:
  - Revlimid (net sales \$3.2B in 2011)
  - Velcade (net sales \$692M in 2011)
  - Thalidomide (net sales \$339M in 2011)
- ❑ Several MAbs currently in clinical development but none approved to date. Likely to be used in combination therapies
- ❑ Significant interest in MM from both large pharmaceutical and biotechnology companies

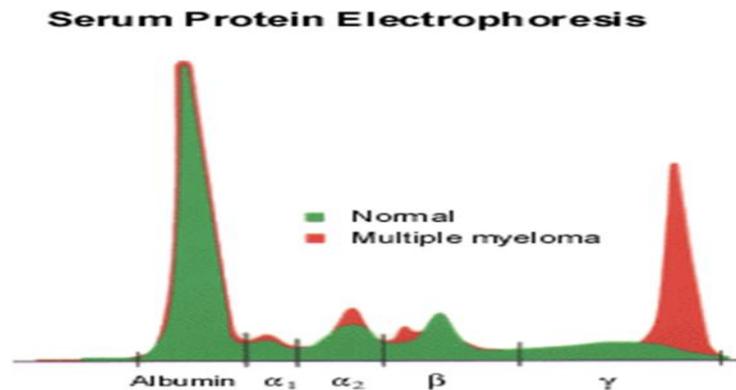


# Multiple Myeloma - Pathology

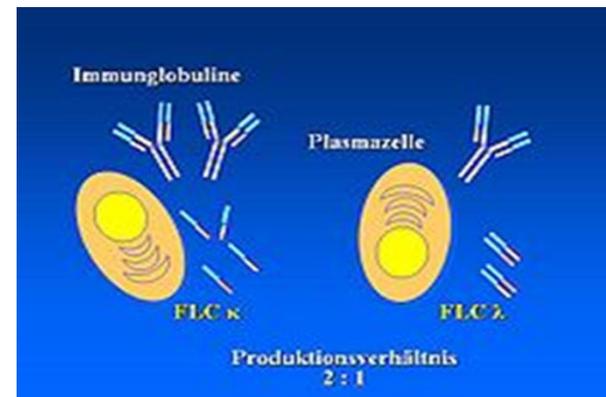
- ❑ Abnormal plasma cells (myeloma cells) secrete lots of “useless” antibodies (M proteins)
- ❑ Myeloma cells crowd out other blood cells resulting in anaemia, thrombocytopenia (bleeding) and leucopenia (infections)



- ❑ Monoclonal gammopathy detected by electrophoresis

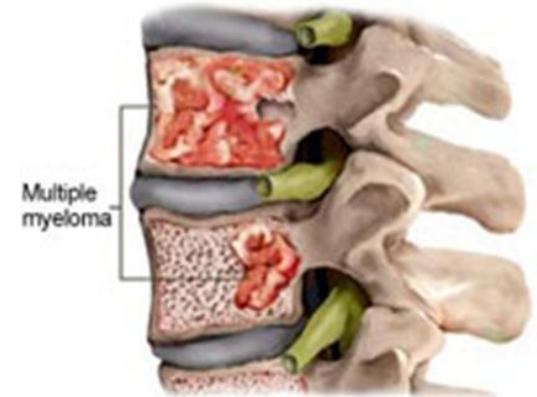
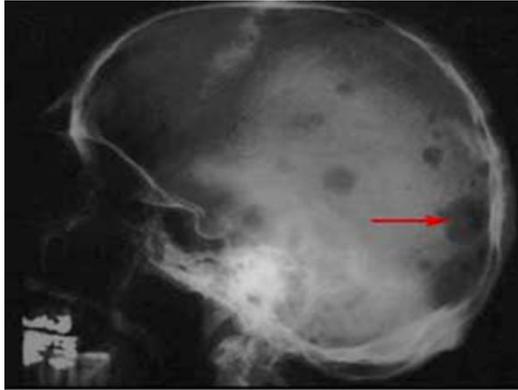


- ❑ Abnormal proteins (Bence Jones) detected in urine



# Multiple Myeloma - Presentation

## ❑ Bone disease and hypercalcemia



# Multiple Myeloma - Presentation

## ❑ Evidence of bone marrow failure



# Therapies for Multiple Myeloma

## Proteasome inhibitors

- Bortezomib (Velcade)
- Carfilzomib (Kyprolis)

## Clinical studies

- Small molecules
- Antibodies, peptides

## IMiDs

- Lanalidomid (Revlimid)
- Thalidomide

## Chemotherapeutics

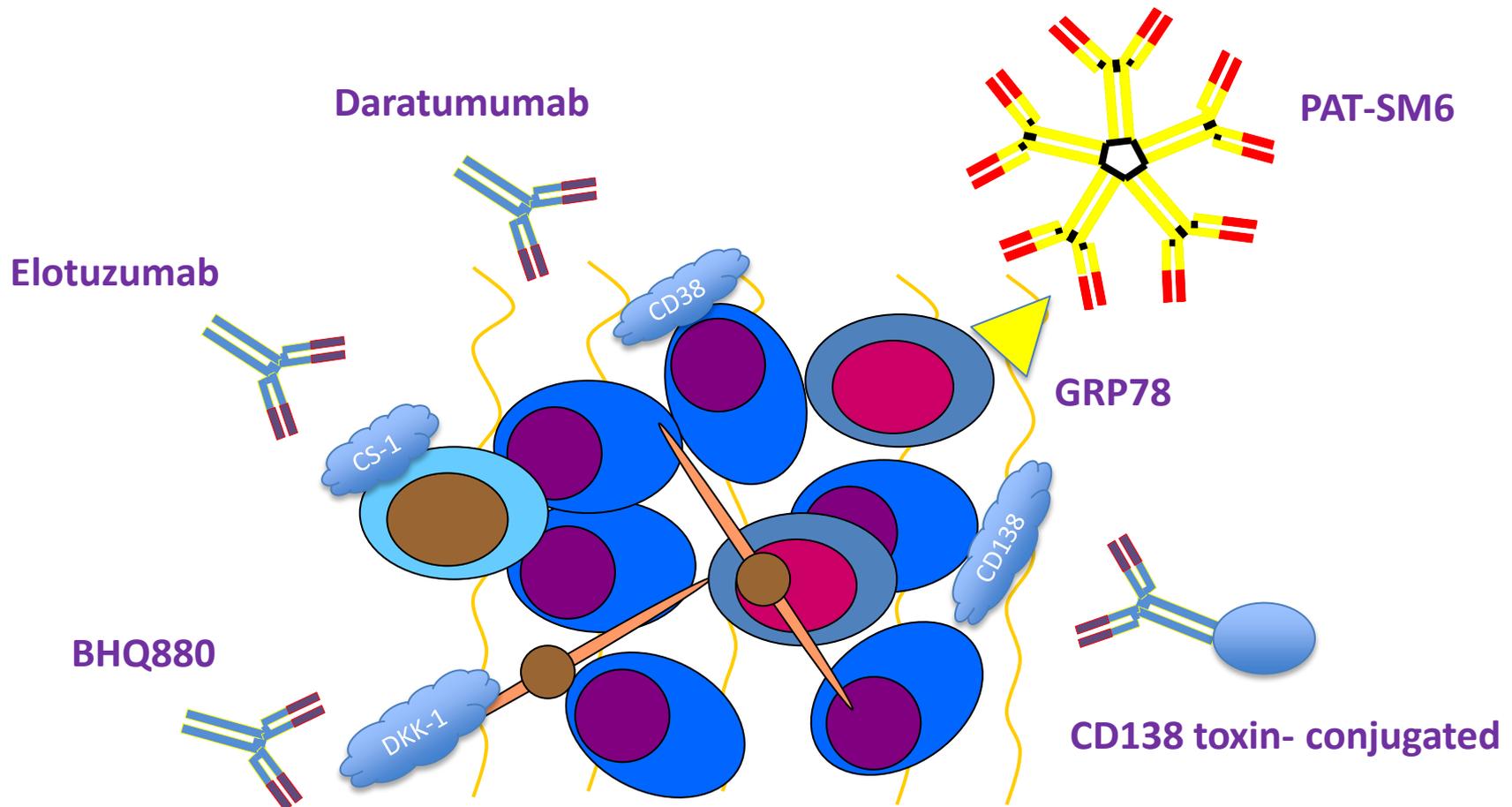
- Melphalan
- Cisplatin
- Cyclophosphamide
- Doxorubicin

## Stem cell transplantation

- Autologous
- Allogeneic



# Antibodies in Clinical Trials for MM



Antibodies in all stages of clinical development



# PAT-SM6 Antibody & Target

## PAT-SM6:

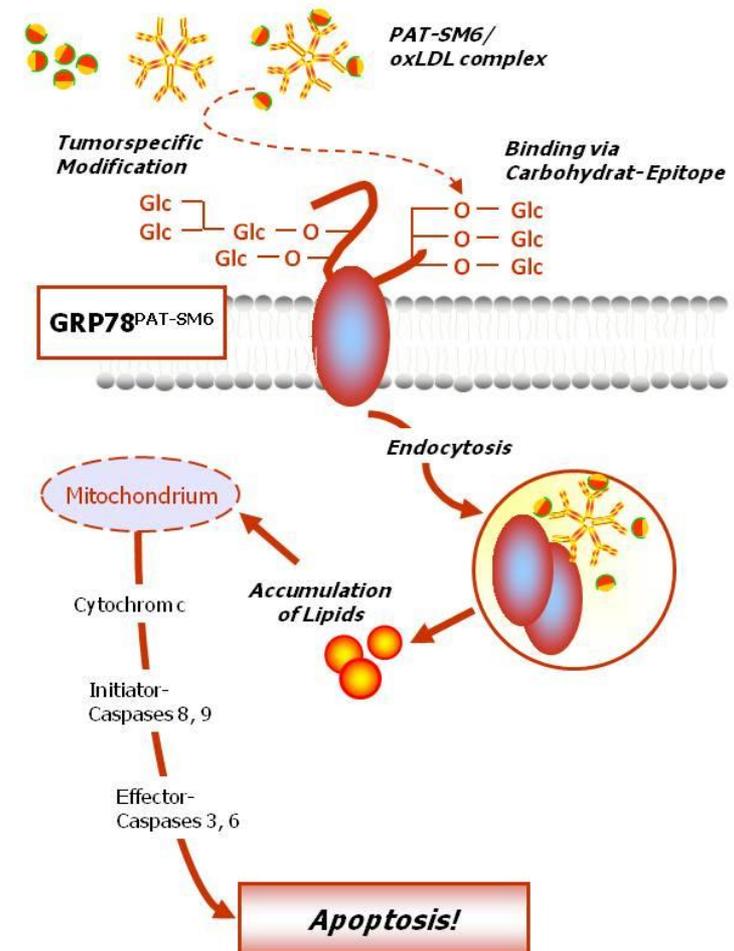
- IgM isotype,  $\lambda$ -light chain
- Isolated from stomach cancer patient
- Recombinantly expressed in PER.C6®
- Targets tumour specific epitope on GRP78
- Binds also to oxidised LDL and VLDL

## Mode of Action:

- Internalisation upon binding of oxidised LDL & GRP78<sup>PAT-SM6</sup>
- Internalisation triggers apoptosis

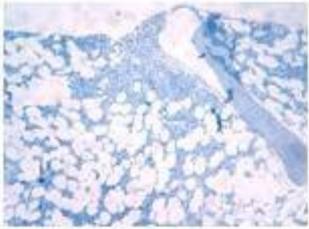
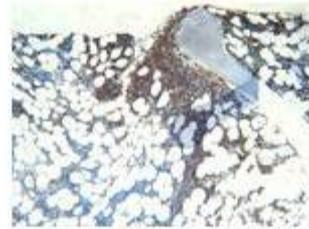
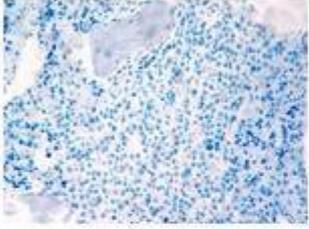
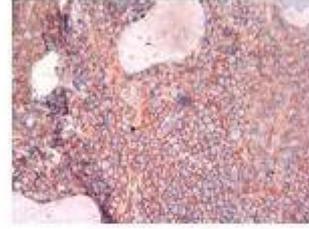
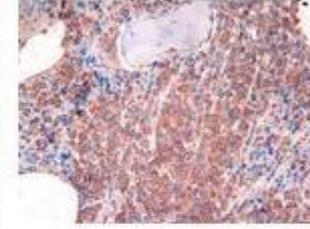
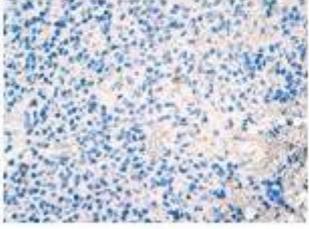
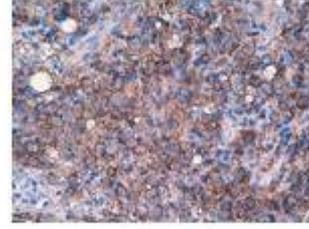
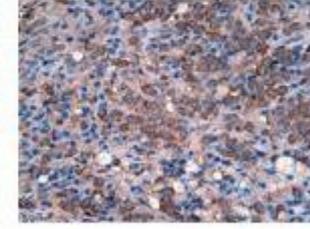
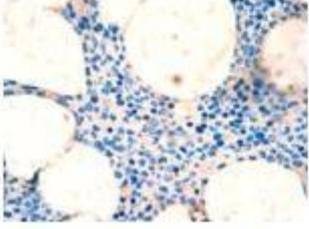
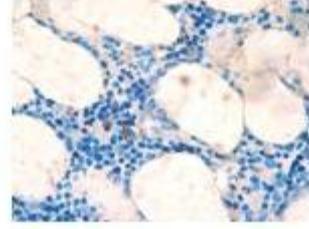
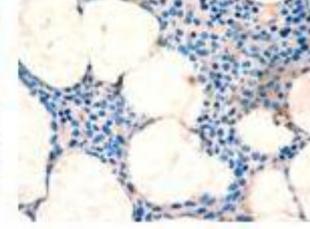
## In vivo & In vitro Reactivity:

- Effective in multiple xenograft models
- Expression data show specific expression in wide range of tumours incl. melanoma and myeloma



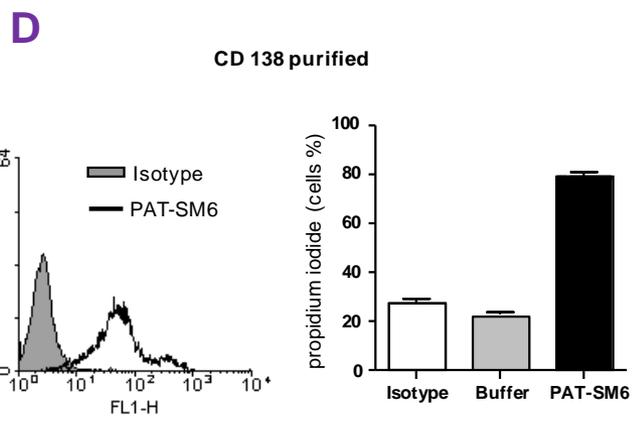
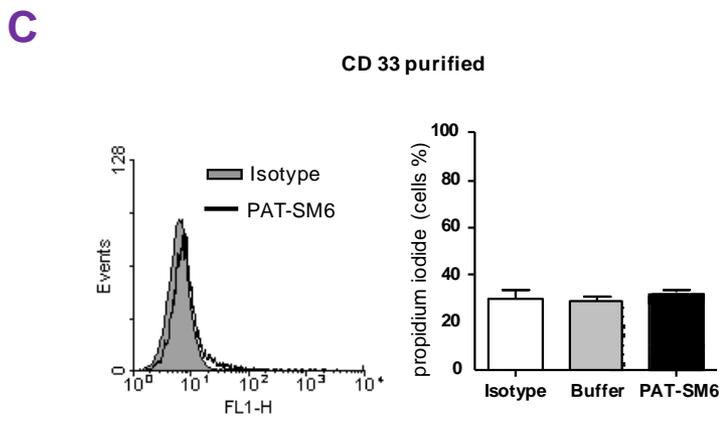
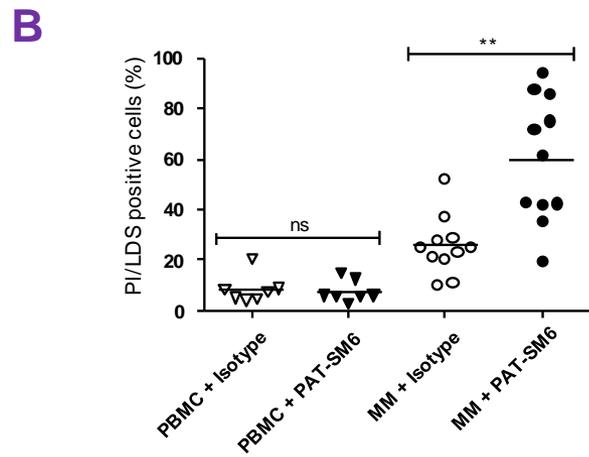
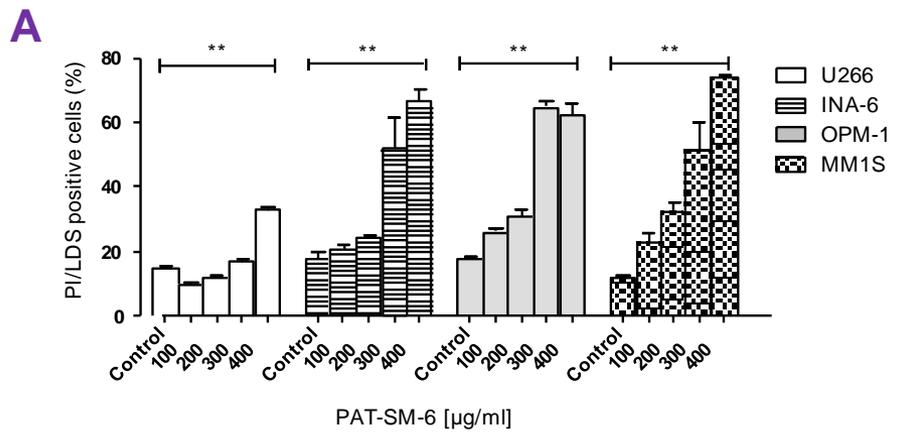
# Preclinical Data I – Multiple Myeloma

- ❑ Patient tissue sourced from 11 patients at primary diagnosis, 9 with relapsed disease and 4 healthy controls
- ❑ IHC staining on bone marrow sections show binding of PAT-SM6 in 20/20 MM patients (primary and relapsed disease)

	Isotype Control	CD138	PAT-SM6
MM1			
MM2			
MM3			
BM without infiltration			

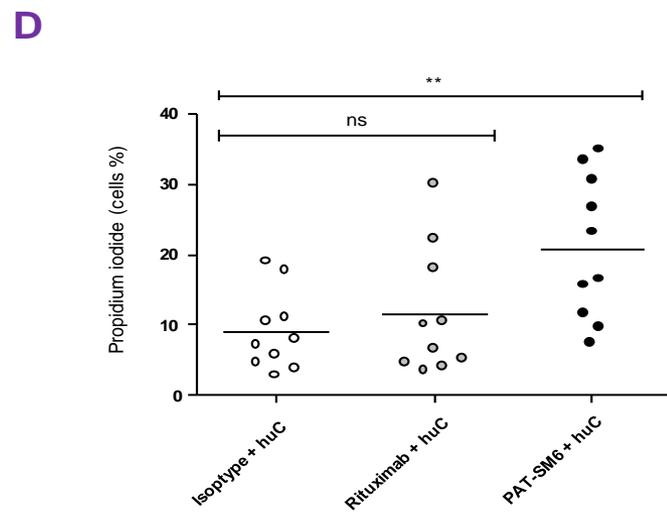
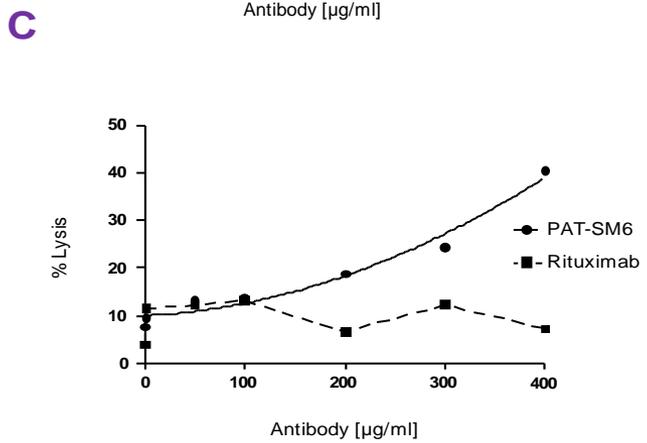
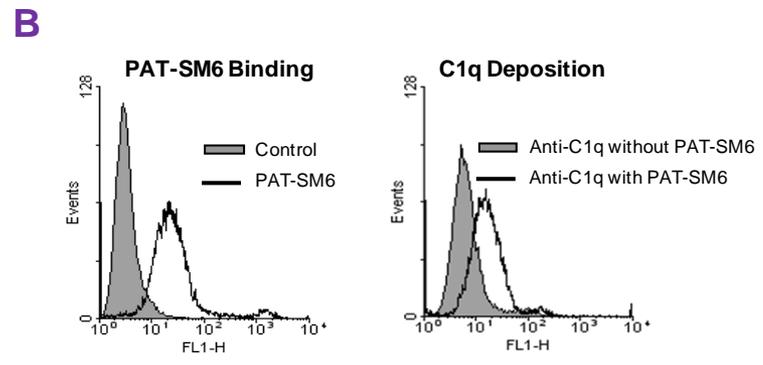
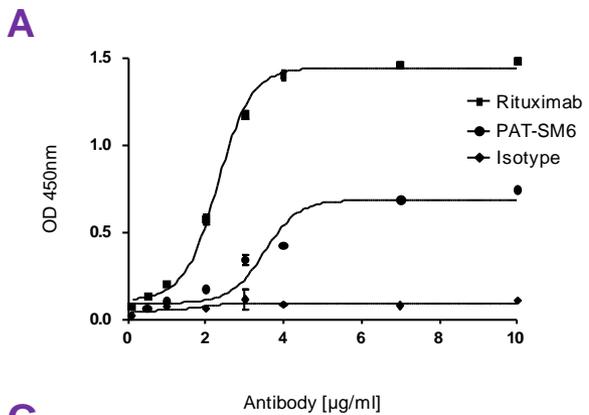
# Preclinical Data II – Multiple Myeloma

**PAT-SM6 mediates cytotoxicity to patient MM cells and MM cell lines by induction of apoptosis**

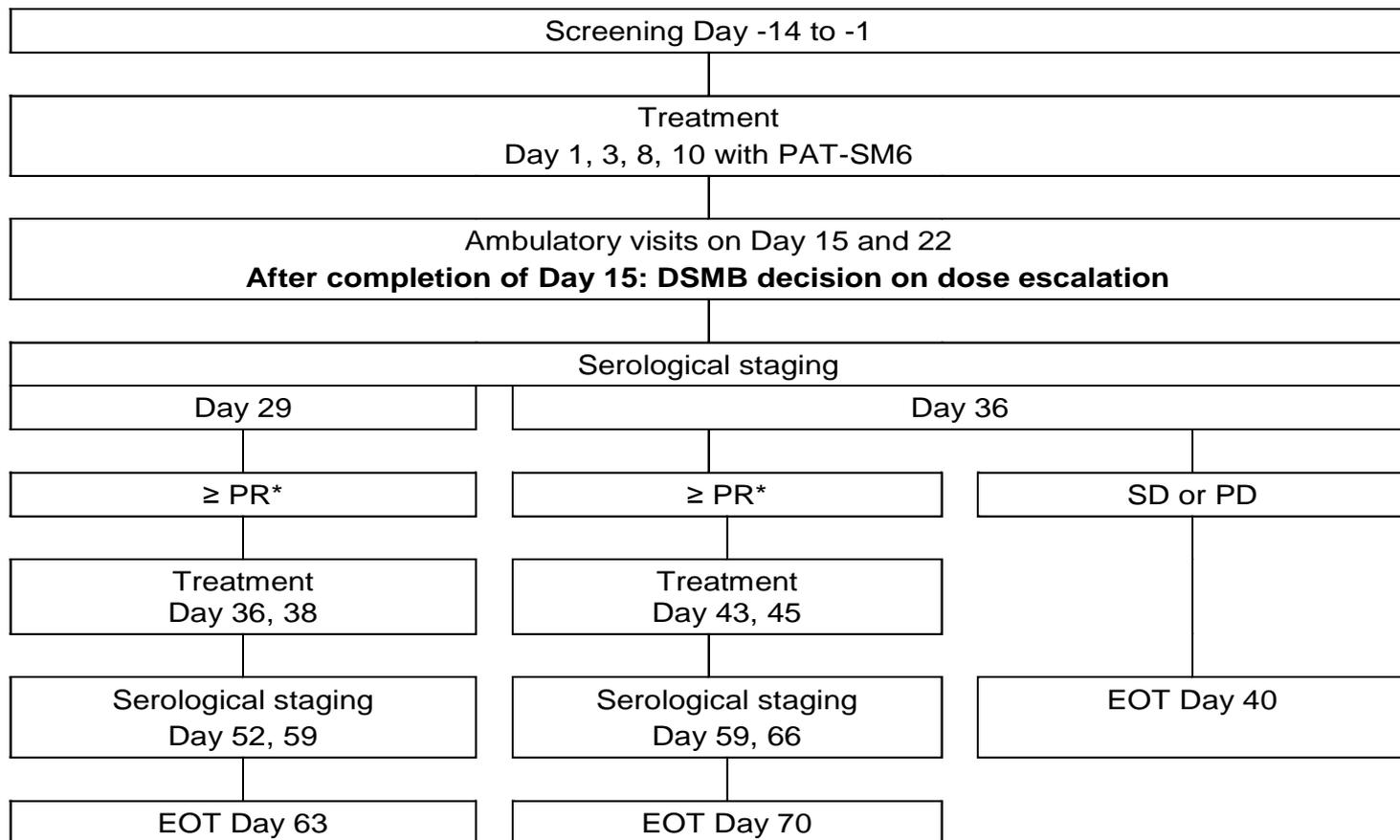


# Preclinical Data III – Multiple Myeloma

□ PAT-SM6 binds C1q and mediates complement deposition and activation on both cell lines and patient cells



# Phase I/IIa PAT-SM6 Multiple Myeloma Study Design



PR = Partial Response  
SD = Stable Disease

PD = Progressive Disease  
EOT = End of Trial Visit

\*If a subject shows  $\geq$  PR after 4 doses (2 cycles), option to offer +2 doses (1 cycle) more



- ❑ Positive Phase I/IIa MM clinical trial data + existing positive Phase I melanoma data + extensive preclinical package:

## *Option 1: Do a deal*

- ❑ Out-license to major oncology company on WW basis
- ❑ Out-license but retain some rights / territories
- ❑ Co-development / co-promotion deal

## *Option 2: Don't do a deal*

- ❑ Raise significant cash and continue clinical development alone



- Execute PAT-SM6 Phase I/IIa open-label multi-dose multiple myeloma clinical trial
- Continue preclinical work with PAT-SM6 and multiple myeloma (animal models, drug combination studies)
- Expand external collaborations around all programmes to generate new data and intellectual property
- Publish 3-4 academic papers in peer-reviewed journals
- Continue out-licensing of PAT-SC1
- Continue preclinical development of PAT-LM1 and other, earlier stage, antibodies



# For Further Information

## Contact Details:

- Dr Marie Roskrow, Chief Executive Officer
- Mr Roger McPherson, Chief Financial Officer
- Ph: +61 3 9670 3273
- Email: [info@patrys.com](mailto:info@patrys.com)
- Website: [www.patrys.com](http://www.patrys.com)

