

# Prima BioMed

FY17 update

Pharma & biotech

# Support for anti-LAG-3 and APC-activator combos

Data presented at the European Society for Medical Oncology (ESMO) congress by third parties has positive implications for Prima Biomed's LAG3 pipeline, both its in-house IMP321 APC activator and the anti-LAG3 programme out-licensed to Novartis. Prima itself presented encouraging data from ongoing studies of IMP321 in FY17, including a 47% response rate in the run-in phase of its AIPAC breast cancer Phase II. Prima earned a US\$1m milestone from Novartis in August, showing that the partnered anti-LAG3 programme is progressing. The company guides that the ~A\$6.5m raised from US investors in July extends the funding runway to Q4 CY18. We increase our valuation to A\$272m (vs A\$252m) or A\$0.12/share.

Year end	Revenue (A\$m)	PBT* (A\$m)	EPS* (c)	DPS* (c)	P/E (x)	Yield (%)
06/16	1.9	(13.7)	(0.6)	0.0	N/A	N/A
06/17	4.1	(8.4)	(0.4)	0.0	N/A	N/A
06/18e	3.5	(8.4)	(0.4)	0.0	N/A	N/A
06/19e	10.5	(0.0)	(0.0)	0.0	N/A	N/A

Note: \*PBT and EPS are normalised, excluding exceptionals and share-based payments.

## **ESMO** data support APC-activator combos

Idera Pharmaceuticals reported at ESMO that combining intra-lesional injections of its antigen presenting cell (APC) activator IMO-2125 with the anti-CTLA4 immune checkpoint inhibitor (ICI) Yervoy led to a high response rate in melanoma patients (44% vs 10-16% for Yervoy in historical studies). This has positive read-through for Prima's TACTI-Mel study, which combines its IMP321 APC activator with the anti-PD1 ICI drug Keytruda. Prima has already reported one complete response among the six melanoma patients treated with the lowest dose of IMP321 in TACTI-mel.

# BMS results validate anti-LAG-3 strategy in cancer

Separately, BMS reported an encouraging response rate to anti-PD1/anti-LAG3 combination therapy at ESMO, and plans to progress its anti-LAG3 drug into later stage clinical trials. This validation of the efficacy of anti-LAG-3 drugs bodes well for ongoing studies of LAG525 which Prima out-licensed to Novartis.

# Steady news flow anticipated in FY18

TACTI-mel cohort 2 data are due in Q417, and results from all three dose cohorts in H118; final results from the 15-patient AIPAC run-in are expected Q417. The AIPAC Phase II is expected to fully recruit in H118 and report first results by mid-2019. News is also expected from LAG3 programmes partnered with Novartis and GSK.

## Valuation: Increased to A\$272m, 12c per share

We have rolled forward our DCF model and updated our financial forecasts to account for the A\$6.5m capital raise and FY17 results. Our valuation has increased to A\$272m, which is equal to 12c per share (undiluted) or 8c per share diluted for options, warrants and convertible notes (both unchanged). Company guidance is that cash reserves will be sufficient to fund operations to Q4 CY18, excluding any further milestone payments from partners Novartis and GlaxoSmithKline. Milestone revenue (we model ~A\$8m in FY19) would extend the cash runway.

#### 29 September 2017

 Price
 A\$0.02

 Market cap
 A\$57m

 US\$0.76/A\$
 US\$0.76/A\$

 Gross cash (A\$m) at 30 June 2017
 12.2

 Shares in issue
 2,358.4m

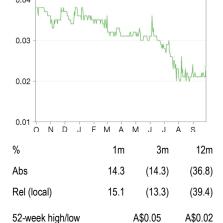
 Free float
 93%

 Code
 PRR

 Primary exchange
 ASX

Secondary exchange NASDAQ

#### Share price performance



#### **Business description**

Prima BioMed is an ASX-listed biotechnology company focused on cancer immunotherapy. Its pipeline is based on three products using a LAG-3 immune control system: IMP321 for cancer chemoimmunotherapy and partnered products IMP731 (GSK) and IMP701 (Novartis).

#### **Next events**

TACTI-mel cohort 2 safety and activity data H217
TACTI-mel cohort 3 safety and activity data H118
IMP761 preclinical data 2017

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# Positive read-through from ESMO presentations

Prima did not present any data on IMP321 at the ESMO congress held in Madrid on 8-12 September, nor did its partner Novartis present anything on its LAG525 (IMP701) LAG-3 antagonist antibody. Despite this, we believe that promising results for drug candidates with similar mechanisms of action have positive implications for these two development programmes.

## TLR9 study validates/supports APC-activator/ICI combo therapy

Prima's TACTI-mel study is investigating the use of IMP321 (its LAG-3-based antigen presenting cell activator) to enhance efficacy in melanoma patients who have had a suboptimal initial response to the PD1 immune checkpoint inhibitor Keytruda. Positive early data for IMO-2125 that was presented at ESMO by Idera Pharmaceuticals supports the strategy of combining APC-activator and ICI drugs in melanoma patients.

Idera reported an objective tumour response rate (ORR) of 44% (4/9) among nine melanoma patients who had failed prior anti-PD1 ICI therapy, when they were treated with intra-lesional injections of IMO-2125 in combination with the marketed anti-CTLA4 ICI drug Yervoy (ESMO abstract <a href="https://doi.org/10.168/">1187P</a>). The 44% ORR compares to response rates of 10-16% reported for similar patients treated with Yervoy on its own in historical studies.

IMO-2125 is a toll-like receptor 9 (TLR9) agonist drug which activates antigen presenting cells (APC) including dendritic cells and B lymphocytes to initiate an immune response. This mechanism of action has a lot of parallels to IMP321, with both drugs aiming to stimulate the initial steps of the immune response via the innate immune system. Although the number of patients treated with IMO-2125 is still quite small, in our view the high response rate provides further support for the approach that Prima is taking of combining its IMP321 APC-activator with an ICI drug in the TACTI-mel study. IMP321 has the advantage that it is administered via subcutaneous injections, which is a much simpler and more versatile route than the intra-lesional injection required for IMO-2125.

#### Data on all three TACTI-mel cohorts expected H118

Prima's TACTI-mel study of IMP321 plus Keytruda in melanoma patients who have had a suboptimal response to initial treatment with Keytruda has commenced recruiting subjects in the third and final cohort. The third cohort is testing a 30mg dose of IMP321; the first two cohorts showed that the 1mg and 6mg doses were well tolerated.

Prima reported at the Immune Checkpoint Inhibitors conference in Boston in March that one of the six patients (17%) in the low-dose cohort experienced a complete response (CR). Even though there is only one patient with a CR, the initial CR rate compares favourably with rates of 2-6% seen in Merck's Phase III trials of Keytruda monotherapy in melanoma.

Data from the first two cohorts will be reported in Q417, with data from all three cohorts expected in H118.

## BMS data show efficacy of anti-LAG-3 combo

Novartis is developing LAG525, an anti-LAG-3 antibody which is based on a programme that it inlicensed from Prima. LAG525 blocks the LAG-3-mediated inhibitory signal given to tumour-infiltrating T-cells and thus activates T-cell proliferation. Bristol-Myers Squibb (BMS) reported positive data for a comparable anti-LAG3 antibody at ESMO, which provides initial clinical validation for the anti-LAG-3/anti-PD1 combination therapy approach being pursued by Novartis.



BMS reported data at ESMO (LBA18) from a study of its BMS-986016 anti-LAG-3 antibody in combination with the anti-PD1 ICI Opdivo in melanoma patients who had failed prior ICI therapy. The ORR was 18% (6/33) in patients who had high (>1%) LAG-3 expression in tumour cells; for patients with low LAG-3 tumour expression the ORR was 5% (1/20).

BMS considers the efficacy as encouraging for these patients for whom treatment with the best available therapies had failed. It has expanded the study to include 150 patients who have failed prior ICI therapy. It has re-named the BMS-986016 compound relatlimab, and disclosed in an <a href="interview">interview</a> in September that relatlimab will be investigated in later-stage trials, initially in melanoma.

We note that on 22 September the FDA approved Keytruda for the treatment of stomach cancer patients who had failed two prior lines of therapy, on the basis of a 13% ORR (19/143) in patients with >1% PD-L1 expression in their tumours. This supports the view that the 18% response rate seen for BMS's anti-LAG-3 combo is a clinically meaningful benefit for a group of patients who have failed the best available therapies.

# Novartis expands partnered anti-LAG-3 programme and pays development milestone to Prima

Novartis is conducting a 416-patient Phase I/II trial of LAG525 under its collaboration and licensing agreement with Prima. The trial (clinicaltrials.gov identifier: <a href="NCT02460224">NCT02460224</a>) is testing LAG525 in combination with Novartis's in-development anti-PD-1 ICI PDR001. The Phase II component of the study was initially targeting patients with melanoma, non-small cell lung cancer and renal cancers, but on 25 September the protocol was expanded to also enrol patients with mesothelioma and triple-negative breast cancer. The trial began in June 2015 and has an estimated completion date of April 2019 (previously October 2018).

To our knowledge, Novartis has not yet published any results from the LAG525 combination study, but on 17 July Prima announced that it had earned a US\$1m payment from Novartis for a significant, but undisclosed, clinical milestone in the LAG525 programme. The milestone payment and the recent expansion to the LAG525 clinical trial to include mesothelioma and breast cancer are evidence that the LAG525 programme is progressing as anticipated.

The positive results from BMS's anti-LAG-3 combo study support the thesis that simultaneous blockade of LAG-3 and PD-1 may synergistically restore T-cell activation and enhance anti-tumour immune responses, so we continue to be optimistic that Novartis's LAG525 trial may also produce positive results.

# Final data from AIPAC safety run-in due Q417

Prima presented encouraging data from the safety run-in phase of its AIPAC Phase IIb breast cancer trial at the American Society of Clinical Oncology (ASCO) meeting held in Chicago on 2-6 June 2017. The trial is testing the IMP321 soluble LAG-3 fusion protein combined with paclitaxel in women with hormone receptor positive metastatic breast cancer (mBC) who have not previously received chemotherapy for metastatic disease.

In the safety run-in phase 15 women were treated with either 6mg or 30mg of IMP321 in combination with weekly paclitaxel chemotherapy (80mg/m² in three weeks out of every four). Both doses of IMP321 were found to be safe and well tolerated when used in combination with paclitaxel, with no dose-limiting toxicities reported.

The overall response rate (ORR) for the 15 patients was 47% and the disease control rate (DCR, tumour response or stable disease) was 87%. The 47% ORR compares favourably with response



rates of 23-41% reported in historical studies <sup>1,2</sup>. Final data on the first 15 patients are expected to be reported in Q417.

Prima dosed the first patient in the randomised Phase IIb component of AIPAC in January 2017. The randomised double-blind phase will enrol 226 patients, with half receiving standard paclitaxel chemotherapy plus 30mg of IMP321, while the other half will receive paclitaxel plus placebo.

Recruitment is underway in 24 clinical sites in Belgium, the Netherlands, the UK, Poland, Germany and Hungary, and the study is expected to be fully recruited in H118. The record of the AIPAC trial on clinicaltrials.gov (NCT02614833) indicates that final data for the progression-free survival (PFS) primary endpoint are expected to be collected in June 2019. Depending on the recruitment rate and PFS observed, we estimate that top-line PFS data could mature sometime between late 2018 and mid-2019.

## IMP731/GSK2831781 Phase I in psoriasis ongoing

GlaxoSmithKline (GSK) is continuing its Phase I trial of GSK2831781, which is based on LAG-3 technology in-licensed from Prima. GSK2831781 is a cytotoxic mAb that will kill the few LAG-3+ activated T-cells that infiltrate autoimmune disease sites.

The trial will measure the activity of escalating doses of GSK2831781 in patients with the autoimmune disease plaque psoriasis, including the proportion of patients achieving 50% and 75% improvement from baseline in Psoriasis Area Severity Index (PASI), and change from baseline in Psoriatic Lesion Severity Scores (PLSS). This suggests that the Phase I trial could potentially produce early evidence of activity of the therapy in psoriasis patients.

The estimated completion date for the study is currently listed as August 2018 on the GSK clinical studies <u>register</u>, vs June 2018 previously. As a result, we have delayed forecast receipt of the next clinical development milestone payment from GSK from FY18 to FY19.

Following a portfolio review, GSK announced in July that around 30 drug development programmes were to be terminated or divested. The LAG-3 programme has been retained, which suggests that the company is satisfied with the way that the Phase I trial is progressing.

### **Valuation**

Our valuation of Prima has increased to A\$272m (previously A\$252m) or 12c per share (undiluted, unchanged). On a fully diluted basis our valuation is unchanged at 8c per share, after taking into account the options, warrants and convertible notes on issue. Exhibit 1 summarises the constituent parts of our valuation, which is based on a discount rate of 12.5%.

We have updated our financial forecast to account for the US\$5m (~A\$6.5m) raised from US investors in June/July, and have rolled our risk-adjusted NPV model forward in time to incorporate estimated net cash for the end of the current financial year (FY18e) and the rNPV of forecast cash flows for FY19 to FY35.

We have deferred forecast receipt of A\$8m of milestone revenue from GSK from FY18 to FY19 as the Phase I clinical trial of GSK2831781 is now not expected to be completed until August 2018.

We forecast the gross cash balance at end FY18e to be A\$9.5m. For valuation purposes we deduct the A\$13.75m face value of the Ridgeback Capital convertible note in calculating end-FY18e net

<sup>1</sup> Gray et al, J Clin Oncol. 2009 Oct 20;27(30):4966-72.

<sup>2</sup> Martin et al, Lancet Oncol 2011; 12: 369-76



debt of A\$4.2m as shown in Exhibit 1. We note that this is different to the accounting treatment of the convertible note, which includes only the A\$5.8m estimated fair value of the convertible note as a non-current liability with the remainder treated as equity, resulting in a balance sheet net cash figure of A\$3.7m as shown in Exhibit 3.

Our unchanged peak sales estimates for IMP321 and IMP701/LAG525 are based on pricing per patient of US\$60k and US\$40k in the US and Europe, respectively. The marketed ICIs Keytruda, Nivolumab and Tecentriq are all priced at about US\$12,500 per month (US\$150k per year) in the US, which suggests that our pricing assumptions may be conservative depending on the approved indications, duration of treatment and total cost of combination therapies.

Exhibit 1: DCF valuation of	Prima BioM	ed				
Value driver	Launch date	Likelihood of success	Peak sales (US\$m)	Royalty	Value (A\$)	Value per share (A\$)
IMP321-MBC	2021 (EU), 2024 (US)	35%	971	17.5%	187.6	0.08
IMP321+anti-PD1 ICI-melanoma	2025	15%	480	17.5%	30.9	0.01
IMP321 milestones - assume partnered post PII in MBC		US\$225 estimated risk-adjusted milestones from out-licensing North American and European rights.				0.02
IMP731-autoimmune disease	2023	15%	1,079	8%	42.4	0.02
Potential IMP731 milestones from GSK	US\$90m of tota	US\$90m of total US\$100m in risk-adjusted milestones from GSK				0.01
IMP701-solid tumours (lung cancer)	2025	15%	2,440	5%	44.1	0.02
Potential IMP701 milestones from Novartis	US\$20m in risk-	adjusted milestones from Nov	/artis		2.9	0.00
Grants					1.7	0.00
R&D expenses					(7.1)	(0.00)
Admin expenses					(6.2)	(0.00)
Capex					(0.0)	(0.00)
Tax					(86.6)	(0.04)
Net cash	End FY18e net cash (including A\$13.75m convertible note at face value)				(4.2)	0.00
Total					271.6	0.12
Source: Edison Investment Rese	arch					

Exhibit 2 shows that in addition to the 2,358m Prima shares currently in issue, there are a further 1,458m potential shares that could be issued on the exercise of options, warrants and convertible notes, all of which would be in the money at our 12c per share undiluted valuation. Exhibit 2 shows that after taking into account these potential shares, our diluted valuation is 8c per share. Depending on trial progress and the timing of milestone payments from partners, Prima may require additional funding to complete the IMP321 clinical trials; our diluted valuation of 8c per share does not take into account potential dilution from any future capital raising.

Exhibit 2: Potential further dilution and value per share						
	Average exercise price (A\$)	m				
Current number of shares		2,358				
Ridgeback convertible note potential shares	0.020	688				
Ridgeback warrants	0.024	380				
Listed options	0.200	197				
Unlisted options	0.050	151				
Performance rights	0.000	42				
Total in-the-money potential shares		1,458				
Total potential diluted number of shares		3,817				
Net cash raised from options and CN exercise		A\$37				
Valuation (above plus additional cash)		A\$308				
Diluted value per share		A\$0.08				

The breadth of the LAG-3 pipeline means there could be further upside if Prima or its partners launch additional products into the clinic or broaden the indications being studied.

We include risk-adjusted milestones payable by current partners GSK for IMP731 and Novartis for IMP701, plus milestones from prospective deals for IMP321. Possible catalysts include efficacy



data from the AIPAC dose-finding cohorts, progression of the licensed anti-LAG-3 antibody into Phase II by GSK or news on partnering, all of which could provide upside to our current valuation.

## **Financials**

Prima's gross cash position at the end of June 2017 was A\$12.2m. Since the start of FY18 it has received gross cash proceeds of ~A\$6.5m from a capital raise from US investors, a US\$1m milestone payment from Novartis, and A\$1.3m from the French government's research incentive scheme. Operating cash burn in FY17 was A\$8.5m, 25% lower than in the previous year.

We have deferred the receipt of US\$6m of risk-adjusted milestone payment from FY18 to FY19 in our forecasts, due to the later expected completion date for GSK's Phase I trial. The lower revenue sees our forecast FY18 EBITDA loss double to A\$8.7m (vs A\$4.3m). We forecast a small A\$0.3m EBITDA loss in FY19.

Company guidance is that it has a projected cash reach to Q4 CY18. Our forecasts assume that Prima receives a risk-adjusted US\$6m (A\$8m) milestone payment from GSK in FY19 under the IMP731/GSK2831781 licence agreement, which would extend its cash reach into FY20.

## **Sensitivities**

Prima is exposed to the same clinical, regulatory and commercialisation risks as all biotech companies. The key sensitivity is clinical progress of its pipeline of LAG-3 candidates, primarily the internally funded IMP321. While Prima has funds to conduct the IMP321 Phase II study in MBC, it would require a partnership or alternative forms of funding to advance IMP321 further. Existing partnerships with big pharma reduce the financial and execution risk for IMP701 and IMP731; in addition, if the Phase I study of IMP701 reveals evidence of efficacy, it could lead GSK to extend the study to additional indications including rheumatoid arthritis and multiple sclerosis, which could increase the potential peak sales and therefore the value of the product.



	A\$'000s	2015	2016	2017	2018e	2019
Year end 30 June		IFRS	IFRS	IFRS	IFRS	IFR
PROFIT & LOSS						
Revenue		1,336	1,949	4,117	3,500	10,49
R&D expenses		(8,952)	(7,060)	(7,526)	(7,752)	(6,201
SG&A expenses		(5,723)	(6,983)	(4,347)	(4,477)	(4,612
EBITDA		(13,345)	(12,093)	(7,756)	(8,729)	(318
Operating Profit (before GW and except.)		(13,671)	(12,275)	(7,770)	(8,732)	(321
Intangible Amortisation		(1,015)	(1,993)	(1,688)	(1,712)	(1,558
Exceptionals		(18,338)	(47,468)	0	0	
Operating Profit		(33,024)	(61,736)	(9,458)	(10,444)	(1,879
Other		538	(1,716)	(752)	0	
Net Interest		192	256	104	367	28
Profit Before Tax (norm)		(12,940)	(13,735)	(8,417)	(8,365)	(35
Profit Before Tax (IFRS)		(32,294)	(63,196)	(10,105)	(10,077)	(1,593
Tax		142	1,181	737	0	
Profit After Tax (norm)		(12,798)	(12,554)	(7,680)	(8,365)	(35
Profit After Tax (IFRS)		(32,152)	(62,015)	(9,368)	(10,077)	(1,593
Average Number of Shares Outstanding (m)		1,490.1	2,016.6	2,072.5	2,079.7	2,358.
EPS - normalised (c)		(0.9)	(0.6)	(0.4)	(0.4)	(0.0
EPS - IFRS (c)		(2.2)	(3.1)	(0.5)	(0.5)	(0.
Dividend per share (c)		0.0	0.0	0.0	0.0	0.
Gross Margin (%)		N/A	N/A	N/A	N/A	N/.
EBITDA Margin (%)		N/A	N/A	N/A	N/A	N/.
Operating Margin (70)		N/A	N/A	N/A	N/A	N/.
		IN/A	11//3	19/73	19/73	11/
BALANCE SHEET				10.015	47.007	45.70
Fixed Assets		22,960	20,883	19,045	17,337	15,78
ntangible Assets		22,662	20,852	19,020	17,309	15,75
Tangible Assets		298	32	24	28	3
Other		0	0	0	0	40.40
Current Assets		8,023	21,671	15,919	13,204	13,16
Stocks		0 315	0	0 104	0	0.40
Debtors			168	2,194	2,194	2,19
Cash		6,760	20,880	12,237	9,522	9,48
Other		948	623	1,488	1,488	1,48
Current Liabilities		(4,380)	(1,472)	(2,632)	(2,632)	(2,632
Creditors		(2,791)	(1,444)	(2,589)	(2,589)	(2,589
Short term borrowings Short term leases		(1,508)	(0)	(0)	(0)	(0
Other		(80)	(28)	(43)		
Long Term Liabilities		(1,914)	(5,765)	(5,799)	(43) (5,799)	(43 (5,799
Long term borrowings incl. conv. note		(1,514)	(5,763)	(5,779)	(5,779)	(5,779
Long term borrowings inci. conv. note		0	(5,027)	(3,779)	(3,779)	(3,773
Other long term liabilities		(1,914)	(737)	(20)	(20)	(20
Other long term liabilities Net Assets		24,690	35,317	26,532	22,109	20,51
		24,030	55,517	20,332	22,103	20,01
CASH FLOW		<i>(</i> )			/a ===:	
Operating Cash Flow		(7,785)	(11,594)	(8,611)	(8,729)	(318
Net Interest		0	284	104	367	28
Тах		(2)	0	0	0	
Capex		(49)	(27)	(7)	(7)	(
Acquisitions/disposals		(20,913)	130	0	0	
Financing		7,745	27,229	(9)	5,654	
Dividends		0 (104)	0	0	0	
Other		(164)	0	0 (2.522)	0	
Net Cash Flow		(21,168)	16,022	(8,522)	(2,715)	(3
Opening net debt/(cash)		(23,200)	(5,251)	(15,852)	(6,458)	(3,74
HP finance leases initiated		0	0 (5.424)	0 (272)	0	
Other		3,220	(5,421)	(872)	(0)	
Closing net debt/(cash)		(5,251)	(15,852)	(6,458)	(3,743)	(3,70



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