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COMPANY NOTE | EQUITY RESEARCH | July 19, 2023

Healthcare: Biotechnology Company Update

Imugene Limited | IMU.AX - \$0.09 - ASX | Buy

Stock Data	
52-Week Low - High	\$0.08 - \$0.32
Shares Out. (mil)	6,423.04
Mkt. Cap.(mil)	\$597.34
3-Mo. Avg. Vol.	21,630,290
12-Mo.Price Target	AUD0.71
Cash (mil)	AUD161.9
Tot. Debt (mil)	AUD0.0
Revenue (\$AUD millions)	

Revenue (\$AUD millions)						
Yr Jun	—2022—	—2023E—	—2023E— —2024E—			
		Curr	Curr			
1Half	0.0A	0.0A	0.0E			
2Half	0.0A	0.0E	0.0E			
YEAR	0.0A	0.0E	0.0E			
EPS \$AUD						
Yr Jun	—2022—	—2023E—	—2024E—			
		Curr	Curr			
1Half	(0.00)A	0.00A	-			

0.00F

(0.01)F

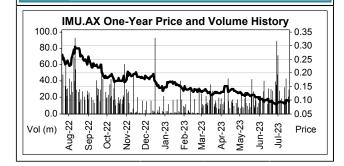
(0.01)F

2Half

YEAR

A(0.00)

(0.01)A



IMU: U.S. Oncolytic Virus Patent Allowed, Enrolling 4th CHECKvacc Dose Cohort

IMU received a Notice of Allowance from the USPTO for a core patent covering its oncolytic virotherapy CF33, which includes both its VAXINIA and CHECKvacc therapies and protects the method of composition and method of use of these agents to 2037. We also note that earlier in July, IMU announced that the fourth dose escalation cohort in its Phase 1 trial evaluating intra-tumoral administration of CHECKvacc in advanced or metastatic triple negative breast cancer (TNBC) is cleared to enroll patients.

- IMU received a Notice of Allowance from the USPTO for a core patent (application number 16/324,541; titled "CHIMERIC POXVIRUS COMPOSITION AND USES THEREOF") covering its oncolytic virotherapy CF33, which includes both its VAXINIA (CF33-hNIS) and CHECKvacc (CF33-hNIS-antiPDL1) therapies and protects the method of composition and method of use of these agents to 2037. Oncolytic viruses selectively kill tumor cells and activate the immune system against cancer cells, with the potential to improve clinical response and survival through both direct killing and turning immunologically cold tumors hot.
- We also note that earlier in July, IMU announced that the fourth dose escalation cohort in its Phase 1 trial evaluating intra-tumoral administration of CHECKvacc in advanced or metastatic triple negative breast cancer (TNBC) is cleared to enroll patients. The first-in-human, single-center trial is being conducted at City of Hope. Upon examining safety and tolerability results from the three prior cohorts, the Protocol Management Team found CHECKvacc monotherapy to be safe with no dose-limiting toxicities and no observed serious adverse reactions. The dose escalation portion of the trial will be followed by an expansion to 12 patients at the final (i.e., RP2D) dose, and the trial should take about two years to complete.

VALUATION

Our 12-month price target of AUD0.71 is based on a DCF analysis using a 10% discount rate that is applied to all cash flows and the terminal value, which is based on a 5x multiple of our projected FY2031 operating income of about AUD1.3 billion. We arrive at this valuation by projecting future revenue from CHECKvacc in TNBC, HER-Vaxx in advanced HER2+ gastric cancer, and PD1-Vaxx in NSCLC. Commercial success outside these financially modeled programs would serve as potential upside to our valuation.

Factors that could impede shares of Imugene from achieving our price target include any of its three modeled immuno-oncology products failing to succeed clinically. Also, the FDA and foreign regulatory authorities could fail to approve Imugene's products even if their respective pivotal clinical trials succeed, in the event the agency views the results as not clinically meaningful. Loss of key management personnel could also impede achieving our Imugene price target, as could the significant delay of clinical progress from, for example, lasting COVID-19 headwinds.

RISKS

- Clinical risk. Imagene's clinical staged products could fail to deliver statistically significant results in latestage clinical trials, substantially reducing the value of Imagene's product candidates and therefore our target price.
- Regulatory risk. Even if successful in the clinic, Imugene's products could fail to be approved by domestic and/or foreign regulatory bodies, which would reduce Imugene's value and therefore our target price.
- **Financing risk.** Imagene will need additional capital to fund its operations, and such financing may not occur or it could be substantially dilutive to existing investors.
- Competitive risk. For any future approved Imagene products, they may not be well adopted in a competitive marketplace, which would adversely affect Imagene's value and therefore our target price.
- High stock price volatility. This issue is common among small-cap biotechnology companies with relatively low trading volumes.

COMPANY DESCRIPTION

Imugene is a clinical stage immuno-oncology company developing a range of new and novel immunotherapies that seek to activate the immune system of cancer patients to treat and eradicate tumours. Its unique platform technologies seek to harness the body's immune system against tumours, potentially achieving a similar or greater effect than synthetically manufactured monoclonal antibody and other immunotherapies. Its product pipeline includes multiple immunotherapy B-cell vaccine candidates and an oncolytic virotherapy (CF33) aimed at treating a variety of cancers in combination with standard of care drugs and emerging immunotherapies such as CAR T's for solid tumours. It is supported by a leading team of international cancer experts with extensive experience in developing new cancer therapies with many approved for sale and marketing for global markets. The company's vision is to help transform and improve the treatment of cancer and the lives of the millions of patients who need effective treatments. This vision is backed by a growing body of clinical evidence and peer-reviewed research. Imugene is well funded and resourced, to deliver on its commercial and clinical milestones. Together with leading specialists and medical professionals, the company believes Imugene's immuno-oncology therapies will become foundation treatments for cancer. Its goal is to ensure that Imugene and its shareholders are at the forefront of this rapidly growing global market.

Imugene Limited Jonathan Aschoff, Ph.D. (646) 616-2795 Income Statement jaschoff@roth.com Fiscal Year ends June (in AUD\$000, except per share items) CHECKvacc royalty revenue 10,533 72,047 136,670 205,662 329,859 1,068 16,663 39,681 66,049 94,579 107,611 116,443 HER-Vaxx royalty revenue PD1-Vaxx rovalty revenue 644,494 1,068 63,674 311,549 617,022 944,735 1,209,074 Total royalty revenue 1,373,849 3,224 2.554 7,612 4,777 36,612 R&D 9,364 15,355 13,832 22,780 12,651 15,181 27,832 32,007 35,207 36,968 38,816 39,204 39,596 39,992 40.392 5.515 14.061 SG&A 10 311 6 690 7.371 9.255 10 181 19 436 20 991 22.040 23.142 24 299 25 514 26 790 28 129 29 536 Total operating expenses 5,778 12,389 14,879 25,667 20,522 30,151 50,673 21,906 25,362 47,268 52,997 57,248 60,110 63,115 64,719 66,386 68,122 69,928 Operating income (5,778) (12,389) (14,879) (25,667) (20,522) (30,151) (50,673) (21,906) (25,362) (47,268) (52,997) (56,179) 248,433 552,304 878,349 1,140,952 1,303,920 Other income/loss (R&D tax incentive, etc) 1,750 4,074 7,200 5,313 7,371 12,684 6,000 10,046 12,323 13,555 14,233 14,944 15,094 15,245 15,397 15,551 (304) 2,242 Finance income/expense net (3,934)(7,775) (10,508) (18,456) (14,833) (23,084) (37,917) (17,380) (36,642) (40,067) (41,986) 18,563 264,374 568,892 895,835 1,159,712 1,324,515 Net income (pretax) (19,262) Income tax expense (benefit) 79.312 170,668 268,750 347.913 397.355 (7,775) (10,508) (23,084) (37,917) (40,067) 18,563 Net income (3,934) (18,456) (14,833) (17,380) (19.262) (36,642) (41,986) 185,062 398,224 627,084 811,798 927,161 EPS basic (0.00)(0.00)(0.00)(0.00)(0.00)(0.00) (0.01)(0.00)(0.00)(0.01)(0.01)(0.01)0.00 0.02 0.05 0.07 0.09 0.10 EPS diluted (0.00)(0.00)(0.00)(0.00)(0.00)(0.00)(0.01)(0.00)(0.00) (0.01)(0.01)(0.01)0.00 0.02 0.05 0.07 0.09 0.09 Basic shares outstanding 2,637,870 3,581,919 4,074,894 4,663,541 5,439,587 5,834,808 5,637,197 6,132,017 6,499,938 6,315,977 6,759,935 7,097,932 7,452,828 7,825,470 8,216,743 8,627,581 9,058,960 9,511,908 Diluted shares outstanding 2,637,870 4,663,541 5,439,587 5,834,808 7,097,932 9,978,623 Source: SEC filings, company press releases, and ROTH MKM

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Each box on the Rating and Price Target History chart above represents a date on which an analyst made a change to a rating or price target, except for the first box, which may only represent the first note written during the past three years. **Distribution Ratings/IB Services** shows the number of companies in each rating category from which Roth or an affiliate received compensation for investment banking services in the past 12 month.

Distribution of IB Services Firmwide

IB Serv./Past 12 Mos. as of 07/18/23

Rating	Count	Percent	Count	Percent
Buy [B]	379	76.26	224	59.10
Neutral [N]	96	19.32	32	33.33
Sell [S]	3	0.60	0	0
Under Review [UR]	19	3.82	4	21.05

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