

Vitae Pharmaceuticals

(VTAE-NASDAQ)

Stock Rating: Outperform **Industry Rating: Outperform**

Strong Progress Provides Momentum Into Proof-of-Concept in Psoriasis, Diabetes, and Alzheimer's

Event

VTAE reported 4Q14 operating results yesterday. Net loss per share in 4Q14 was \$0.40, and VTAE ended 2014 with \$65.3 million in cash, with an additional \$37.8 million raised in a follow-on offering in 1Q15. Updates from the call included decision by partner Boehringer Ingelheim (BI) to move forward with BI1147560, a BACE inhibitor that is structurally distinct from BI1181181, after concluding that the skin reactions seen with -181 were an obstacle for further development. VTAE believes the skin reactions are compound-specific and unrelated to the BACE inhibition mechanism of action. Phase 1 initiation for -560 is expected by YE15. Additional 2015 milestones included initiation of a phase 1 single-dose healthy volunteer study of VTP-43742 in 2Q15 (completion in mid-2015), initiation and completion of a multiple-dose phase 1 study of -742 in psoriasis in 2H15, top-line phase 2 results for VTP-34072 (partnered with BI) in type 2 diabetes in 2Q15, and phase 1 initiation for VTP-38543 in 2H15.

Impact & Analysis

We reiterate our Outperform rating on shares of VTAE following review of 4Q14 results and ahead of significant milestones. With primary focus on -742, we expect proof-of-concept (POC) to be established in patients with psoriasis within the next 6-12 months and would reflect on strong pre-clinical data suggesting superior effect to potent IL17 mAbs. Additional POC data for -072 in diabetes in 2Q15 could represent a nearer-term catalyst and help validate VTAE's unique structure based drug design. Finally, following the prior clinical hold on -181, we are encouraged by the speed and decisiveness of moving forward with a back-up compound, highlighting partner BI's commitment to development in Alzheimer's. Overall, VTAE remains under-valued relative to its broad opportunity base, and we would recommend buying at current levels.

Valuation & Recommendation

We arrive at our \$27 price target by applying a 25x multiple to our 2023E EPS estimate of \$5.06 and discounting at 25%. We maintain our Outperform rating.

April 1, 2015

Jim Birchenough, M.D.

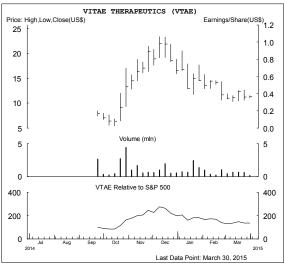
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Price (31-Mar) \$11.71 52-Week High \$23.35 **Target Price** \$27.00 52-Week Low \$5.41



(FY-Dec.)	2013A	2014A	2015E	2016E
EPS	\$0.09	- \$3.61	- \$1.67	- \$1.42
P/E	ψ0.00	ψο.σ ι	na	na
CFPS	na	na	na	na
P/CFPS			na	na
Rev. (\$mm)	\$23	\$9	\$0	\$0
EV (\$mm)	na	\$93	\$93	\$93
EBITDA (\$mm)	\$2	-\$19	-\$26	-\$27
EV/EBITDA	na	na	na	na
Quarterly EPS	Q1	Q2	Q3	Q4
2013A	na	na	na	na
2014A	-\$0.36	-\$0.36	-\$1.06	-\$0.40
2015E	-\$0.37	-\$0.41	-\$0.45	-\$0.45
Dividend	\$0.00	Yield		0.0%
Book Value	\$0.52	Price/B	ook	22.5x
Shares O/S (mm)	18.1	Mkt. Ca	ıp (mm)	\$212
Float O/S (mm)	6.4	Float C	ap (mm)	\$75
Wkly Vol (000s)	1,080		Vol (mm)	\$14.9
Net Debt (\$mm)	-\$16	Next Re	ep. Date	na

Notes: All values in US\$

First Call Mean Estimates: VITAE PHARMACEUTICALS INC (US\$) 2014E: -\$2.40; 2015E: -\$1.75; 2016E: -\$1.67

Changes Annual FPS **Quarterly EPS** 2015E -\$1.72 to -\$1.67 Q1/15E na to -\$0.37 2016E na to -\$1.42

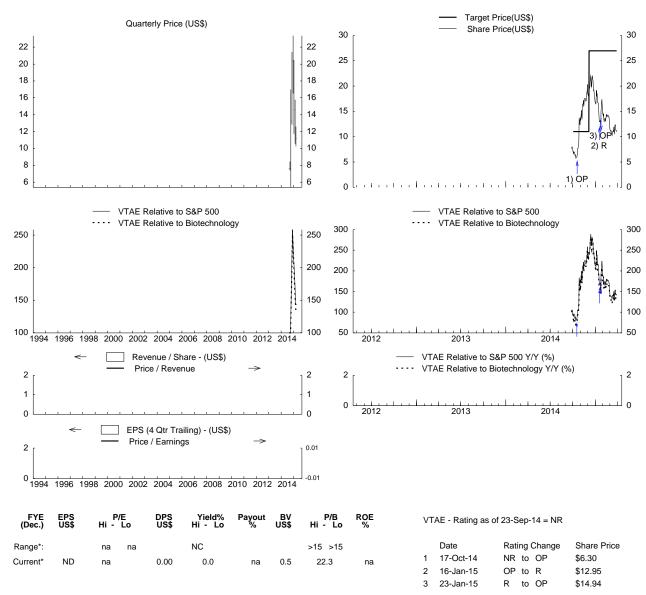
Q3/15E na to -\$0.45 Q2/15E na to -\$0.41 Q4/15E na to -\$0.45

Exhibit 1: VTAE Income Statement 2014A-2023E

INCOME STATEMENT (\$M)	2014A	10	1Q15E	2Q15E		3Q15E	4Q15E		2015E	20	2016E	2017E	ייט	2018E		2019E	2	2020E	2021E		2022E		2023E
N S A A A A A A A A A A A A A A A A A A																							
Product Revenue	· ·	S		65			vs	vs.		vs		V			vs		vs	37.7	vs	896.8	189.9	vs	327.6
Collaboration Revenue	8.7																				٠		
Sponsored Research and Other Revenue	,										•					٠		1			1		1
TOTAL REVENUES	\$ 8.7	s	·	s	•		s	s ·		vs	•	s			s		·s	37.7	\$	\$ 8.96	189.9	vs.	327.6
EXPENSES (GAAP)																							
Cost of Goods Sold (COGS)	·	s		s	s ·		s	S		S	,	S	1		S		S	3.6	S	9.2	17.1	S	27.8
R&D Expense	19.3		2.0		5.0	5.0	47	9:0	20.0		21.0		21.5	24.0	_	26.0		28.0		32.0	34.0		37.0
SG&A Expense	7.9		5 ,		5. '	3.5		9 ,	9.0		0.9		0.0	9.6		0.01		12.0		14.0	16.0		18.0
TOTAL EXPENSES	27.2		6.5	ĺ	6.5	6.5		6.5	26.0		27.0		27.5	32.0		36.0		43.6		55.2	1.79		82.8
Operating Income	(18.5)		(6.5)		(6.5)	(6.5)	*	(9.5)	(26.0)		(27.0)		(27.5)	(32.0	•	(36.0)		(6.9)		41.6	122.8		244.8
Depreciation and amortization	•		ì		,	٠			•		•							•			٠		٠
ЕВП	(18.5)		(6.5)	ح	(6.5)	(6.5)	9	(6.5)	(26.0)		(27.0)		(27.5)	(32.0)	_	(36.0)		(6.9)		41.6	122.8		244.8
Interest and other income	0.1		ì						1		•			•				•					•
Interest and other expense	(1.0)		ì		ì	·								٠							٠		
Other Income (Expense)	0.3		(5:0)		(3.0)	(4.0)	æ	(4.0)	(12.9)		(12.1)		(7.2)	12.0		(7.5)							
Interest and Other Income (Expense)	(0.6)		(5.0)	_	(3.0)	(4.0)	٣	(0.4)	(12.9)		(12.1)		(7.2)	12.0		(7.5)							1
Pre-Tax Income	(19.1)		(8.5)		(9.5)	(10.5)) J	10.5)	(38.9)		(39.1)		(34.7)	(20.0)	_	(43.5)		(6.9)		41.6	122.8		244.8
Income Taxes	•		ì		ì	ì			•		•		•					•		•	•		•
Net Income (GAAP)	\$ (19.1)	\$	(8.5)	°	\$ (9.6)	(10.5)	\$ (10	(10.5) \$	(38.9)	v,	(39.1)	v,	(34.7)	(20.0)	s	(43.5)	8	(6.9)	v,	41.6	122.8	v,	244.8
EPS (GAAP) (basic)	\$ (3.61)	s	(0.37)	s (0)	(0.41) \$	(0.45)	s (0.	(0.45) \$	(1.67)	S	(1.42)	S	(1.16)	(0.66)	s	(1.13)	8	(0.14)	S	0.94	2.64	vs	5.05
EPS (GAAP) (diluted)	\$ (3.61)	S	(0.37)	\$ (0.	.41) \$	(0.45)	°(0)	(0.45) \$	(1.67)	6	(1.42)	S	(1.16)	99:0)	\$	(1.13)	s	(0.14)	\$	0.94	2.64	vs	2.06
Total of Reconciliation Items	112.1		ì			•			1		1		•	•				,			•		1
Net Income (Non-GAAP)	\$ 93.0	s	(8.5)	° °	8 (9.6)	(10.5)	\$ (10	10.5) \$	(38.9)	S	(39.1)	S	(34.7)	(20.0)	S	(43.5)	8	(6.9)	s	41.6	122.8	S	244.8
Impact of Adjustments to EPS	8.14				,	٠		,	•		•		•	٠		•		•			•		•
EPS (Non-GAAP) (basic)	\$ 5.95	s	(0.37)	s (0.	(0.41) \$	(0.45)	\$ (0.	(0.45)	(1.67)	s,	(1.42)	S	(1.16)	(0.66)	s	(1.13)	8	(0.14)	s	0.94	2.64	v)	5.05
EPS (Non-GAAP) (diluted)	\$ 5.95	s	(0.37)	s (0.	(0.41) \$	(0.45)	°(0)	(0.45) \$	(1.67)	S	(1.42)	S	(1.16)	(0.66)	S	(1.13)	s	(0.14)	S	0.94	2.64	w	5.06
Weighted average shares outstanding (basic) Weighted average shares outstanding (distance)	5.3		23.22	N A	23.1	23.3	3 8	23.6	23.3		27.7		29.9	30.3		38.7		42.6		6.4	46.5		48.4
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Source: Company reports and BMO Capital Markets

VITAE THERAPEUTICS (VTAE)



* Current EPS is the 4 Quarter Trailing to Q3/2014.
* Valuation metrics are based on high and low for the fiscal year.
* Range indicates the valuation range for the period presented above.

Last Price (March 27, 2015): \$11.21 Sources: IHS Global Insight, Thomson Reuters, BMO Capital Markets.

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Methodology: We arrive at our price target by applying a 25x multiple to our 2023E EPS of \$5.06 discounted 25%.

Risks: There are a number of risks associated with investment in biotechnology companies. These risks include, but are not limited to, risk of clinical trial delay or failure, adverse regulatory decisions including product non-approval, unanticipated adverse effects of drugs which may result in removal from market, risk of manufacturing difficulties, capital market risk which may impair the ability to fund product discovery, research, regulatory filing, manufacture and/or commercialization, risk in attaining and retaining appropriate development or commercial partners, lower-than-expected product adoption, difficulties in gaining appropriate reimbursement for products from payors, unforeseen generic and branded competition, risk to patents being invalidated, and failure to meet earnings and revenue expectations.

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Rating		BMOCM US	BMOCM US	BMOCM US	BMOCM	BMOCM	Starmine
Category	BMO Rating	Universe*	IB Clients**	IB Clients***	Universe****	IB Clients****	Universe
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Hold	Market Perform	52.6%	8.1%	36.6%	53.0%	45.8%	39.5%
Sell	Underperform	3.9%	8.3%	2.8%	4.5%	2.5%	4.9%

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(S) = speculative investment;

NR = No rating at this time;

R = Restricted – Dissemination of research is currently restricted.

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