

Vitae Pharmaceuticals (VTAE)

Financing Extends Runway into 2017 and Funds Clinical Acceleration of VTP-43742; Reiterate OUTPERFORM and \$21 PT

- **Vitae raised approximately \$38 million in a recent equity financing.** The company issued approximately 3.0 million shares of common stock plus an additional 0.45 million shares to cover over-allotments at \$11.90 per share.
- **We have adjusted our model for additional share count and cash.** By including approximately 3.45 million shares from the recent financing, the dilution impacts our Q1 2015 EPS (loss), as well as full-year 2015 and years going forward. With approximately \$86.4 million in estimated Q1 2015 cash & investments, we see cash runway into 2017.
- **The recent FDA approval of Novartis's IL-17A mAb Cosentyx (secukinumab) for moderate-to-severe psoriasis and that Vitae's Th17/RORγt inhibitory VTP-43742 demonstrated superior efficacy in a preclinical model reduces clinical risk and may suggest potential for best-in-class, in our view.** Cosentyx was recently approved in the US (add-on) and in the EU (front-line). We believe VTP-43742, if approved, could become the preferred treatment for psoriasis given its potential oral once-daily dosing profile and superiority to anti-IL-17A mAb in preclinical studies. We anticipate data release from the Phase 1 trial of VTP-43742 in mid:15 and results from the Phase 1 PoC trial in psoriasis patients by year-end. We believe robust reduction in serum inflammatory biomarkers, specifically IL-17A, could provide positive read-through for PoC efficacy. We consider the positive preclinical comparison to an approved product as an indicator of potential clinical success and have included VTP-43742 in our price target.
- **NEXT: Top-line Phase 2 results for VTP-34072 in diabetic patients in H1 2015.** We also anticipate data release from the multiple ascending dose Phase 1 study of VTP-37948/Alzheimer's and the release of data from the single-dose Phase 1 safety and PK trial of VTP-43742/autoimmune by mid:2015.
- **We reiterate our OUTPERFORM rating and our price target of \$21.** Our 12-month PT is a 365-day projection of our current fair value estimate calculated using a sum-of-parts with each part calculated using a 30% annual discount from peak sales of each drug/disease to present day and applying a 1-10x multiple, depending on stage of development to reflect risk.

February 2, 2015

Price
\$14.57

Rating
OUTPERFORM

12-Month Price Target
\$21

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Company Information

Shares Outst (M)	21,865
Market Cap (M)	\$278
52-Wk Range	\$5.41 - \$23.35
Book Value/sh	\$4.01
Cash/sh	\$3.92
Enterprise Value (M)	\$393
LT Debt/Cap %	0%

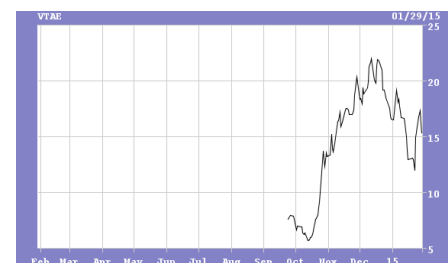
Company Description

Vitae is a clinical stage emerging pharmaceutical company discovering and developing small molecule drug candidates to treat large market indications with unmet medical needs.

FYE Dec	2013A	2014E			2015E		
REV (M)	ACTUAL	CURR.	PREV.	CONS.	CURR.	PREV.	CONS.
Q1 Mar	\$1.0A	\$1.2A	--	--	(\$0.2)E	--	\$0.0E
Q2 Jun	1.0A	1.2A	--	--	(0.2)E	--	0.0E
Q3 Sep	10.3A	6.2A	--	--	(0.2)E	--	0.0E
Q4 Dec	10.3A	0.2E	--	0.1E	(0.2)E	--	10.0E
Year*	\$22.5A	\$8.7E	--	\$8.6E	(\$0.9)E	--	\$10.0E
Change	--	--	--	--	--	--	--
	2013A	2014E			2015E		
EPS	ACTUAL	CURR.	PREV.	CONS.	CURR.	PREV.	CONS.
Q1 Mar	(\$0.66)A	(\$0.47)A	--	--	(\$0.38)E	(\$0.45)E	(\$0.48)E
Q2 Jun	(0.34)A	(0.48)A	--	--	(0.39)E	(0.46)E	(0.50)E
Q3 Sep	0.26A	(1.06)A	--	--	(0.40)E	(0.47)E	(0.52)E
Q4 Dec	0.46A	(0.43)E	--	(0.45)E	(0.41)E	(0.48)E	(0.53)E
Year*	\$0.11A	(\$1.91)E	--	(\$2.00)E	(\$1.57)E	(\$1.87)E	(\$2.04)E
P/E	--	--	--	--	--	--	--
Change	--	--	--	--	--	--	--

Consensus estimates are from Thomson First Call.

* Numbers may not add up due to rounding.



Source: Thomson Reuters

Wedbush Securities does and seeks to do business with companies covered in its research reports. Thus, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Please see page 5 of this report for analyst certification and important disclosure information.

INVESTMENT THESIS Vitae, located in Fort Washington, Pennsylvania, is a clinical-stage emerging pharmaceutical company focused on discovering and developing novel, small molecule drugs for large market diseases with significant unmet medical needs. The company's proprietary structure-based drug design platform called Contour® has provided multiple, high-quality product candidates which have attracted over \$150 million in collaboration funding from big pharma. Vitae has two partnered product candidates in the clinic and several wholly-owned product candidates in preclinical development. The most advanced product candidates include VTP-34072, currently being tested in phase 2 for the treatment of type 2 diabetes and VTP-37948 which is in phase 1 for the treatment of Alzheimer's disease. Both products are being developed by Vitae's partner Boehringer Ingelheim GmbH (BI). Earlier-stage product candidates are currently unpartnered and include VTP-43742 for the treatment of autoimmune disorders, VTP-38443 for the treatment of acute coronary syndrome (ACS) and VTP-38543 for the treatment of atopic dermatitis (eczema). Vitae intends to develop and commercialize these programs and/or to strategically partner programs as appropriate. We have projected clinical development and potential regulatory approvals so that the first product could be launched in late 2019. We project the first full year of profitability in 2021 from revenues of about \$119 million. With the completion of a follow-on in January of 2015, we project Vitae has \$86.4MM in cash and cash equivalents, which we expect to provide cash runway covering transforming clinical data releases from multiple product candidates. We also anticipate upside potential from additional partnerships around their currently unpartnered product candidates and that Vitae's future clinical success could result in the company's acquisition.

Vitae raised approximately \$38 million in a recent equity financing. The company issued approximately 3.0 million shares of common stock plus an additional 0.45 million shares to cover over-allotments at \$11.90 per share.

We have adjusted our model for additional share count and cash. By including approximately 3.45 million shares from the recent financing, the dilution impacts our Q1 2015 EPS (loss), as well as full-year 2015 and years going forward. With approximately \$86.4 million in estimated Q1 2015 cash & investments, we see cash runway into 2017.

Figure 1: UPDATE MODEL

Vitae, Inc. (VTAE:NASDAQ)														Wedbush Securities, Inc													
Historical and Projected Income Statement														Liana Moussatos, PhD													
(in thousands except per share data)																											
	2013A	2014E					2015E	2016E	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E										
	FY13A	Q1A	Q2A	Q3A	Q4E	FY14E	FY15E	FY16E	FY17E	FY18E	FY19E	FY20E	FY21E	FY22E	FY23E	FY24E	FY25E										
Revenues:																											
Product Sales/Royalties																											
VTP-34072	-	-	-	-	-	-	-	-	-	-	-	148	3,660	13,480	46,402	116,557	205,678										
VTP-37948	-	-	-	-	-	-	-	-	-	-	-	1,089	5,344	32,262	105,948	228,466	375,189										
VTP-43742	-	-	-	-	-	-	-	-	-	-	-	1,060	13,087	37,802	77,183	113,533	133,809										
VTP-43742	-	-	-	-	-	-	-	-	-	-	-	5,982	79,357	260,959	667,871	1,257,619	1,830,916										
VTP-38443	-	-	-	-	-	-	-	-	-	-	-	847	19,569	57,995	123,877	193,097	243,042										
VTP-38543	-	-	-	-	-	-	-	-	-	-	-	711	4,134	11,320	22,387	34,042											
Total Net Product Revenues	-	-	-	-	-	-	-	-	-	-	-	148	11,791	115,826	415,235	1,361,488	2,867,056										
Collaborative Revenues	22,513	1,165	1,165	6,178	178	8,685	(887)	(887)	(887)	(887)	(887)	(887)	(887)	(887)	(887)	(887)	(887)										
Total Revenues	\$ 22,513	\$ 1,165	\$ 1,165	\$ 6,178	\$ 178	\$ 8,685	\$ (887)	\$ (887)	\$ (887)	\$ (887)	\$ (887)	\$ (739)	\$ 10,904	\$ 114,939	\$ 414,347	\$ 1,360,600	\$ 2,866,169										
Total COGS	-	-	-	-	-	-	-	-	-	-	-	15	1,179	11,583	41,523	136,149	286,706										
Gross Margin	\$ 22,513	\$ 1,165	\$ 1,165	\$ 6,178	\$ 178	\$ 8,685	\$ (887)	\$ (887)	\$ (887)	\$ (887)	\$ (887)	\$ (754)	\$ 9,725	\$ 103,356	\$ 372,824	\$ 1,224,452	\$ 2,579,463										
Operating Expenses:																											
R&D	14,917	4,713	4,713	4,799	4,895	19,120	21,838	24,658	26,690	26,141	26,296	30,628	33,153	35,886	38,844	42,046	45,512										
SG&A	5,406	1,315	1,315	3,096	3,127	8,853	12,541	12,877	13,400	14,948	29,774	42,141	43,852	45,633	47,486	49,414	51,420										
Acquired in-process R&D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Total Operating Expenses	\$ 20,322	\$ 6,027	\$ 6,027	\$ 7,896	\$ 8,023	\$ 27,972	\$ 34,378	\$ 37,534	\$ 40,090	\$ 41,089	\$ 56,070	\$ 72,769	\$ 77,005	\$ 81,519	\$ 86,330	\$ 91,460	\$ 96,932										
Operating Income (Loss)	2,190	(4,863)	(4,863)	(1,718)	(7,844)	(19,287)	(35,266)	(38,422)	(40,977)	(41,976)	(58,824)	(63,045)	26,351	291,305	1,138,122	2,488,003	4,206,250										
Other Income / (Expense), net	327	109	109	126	89	432	427	424	424	424	424	424	424	424	424	424	424										
Interest Income	69	15	15	8	(2)	35	156	92	(6)	(108)	(229)	(393)	(476)	(312)	558	3,009	7,776										
Interest (Expense)	(1,425)	(271)	(271)	(225)	78	(688)	98	-	-	-	-	-	-	-	-	-	-										
Total other (expenses) income	(1,029)	(147)	(147)	(92)	165	(221)	681	516	418	316	194	31	(52)	112	981	3,432	8,200										
Income Before Income Taxes	\$ 1,162	\$ (5,010)	\$ (5,010)	\$ (1,809)	\$ (7,680)	\$ (19,508)	\$ (34,585)	\$ (37,905)	\$ (40,559)	\$ (41,660)	\$ (58,630)	\$ (63,014)	\$ 26,298	\$ 291,417	\$ 1,139,103	\$ 2,491,436	\$ 4,214,450										
Deemed Dividend to preferred stockholders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
(Provision)/benefit for Income Taxes	-	-	-	-	-	-	-	-	-	-	-	-	(8,605)	(113,653)	(444,250)	(971,660)	(1,643,636)										
Tax Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.3%	39.0%	39.0%	39.0%										
Net Income (Loss)	\$ 1,162	\$ (5,010)	\$ (5,010)	\$ (1,809)	\$ (7,680)	\$ (19,508)	\$ (34,585)	\$ (37,905)	\$ (40,559)	\$ (41,660)	\$ (58,630)	\$ (63,014)	\$ 17,693	\$ 177,764	\$ 694,853	\$ 1,519,776	\$ 2,570,814										
Stock-based compensation	100	56	56	1,967	1,875	3,954	5,123	5,377	5,421	5,427	5,428	5,428	5,428	5,428	5,428	5,428	5,428										
EPS	\$ 0.12	\$ (0.48)	\$ (0.48)	\$ (0.21)	\$ (0.53)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)	\$ (1.30)										
GAAP EPS	\$ 0.11	\$ (0.47)	\$ (0.48)	\$ (0.20)	\$ (0.43)	\$ (1.31)	\$ (1.27)	\$ (1.67)	\$ (1.74)	\$ (1.74)	\$ (2.39)	\$ (2.51)	\$ 0.69	\$ 6.76	\$ 25.84	\$ 55.29	\$ 91.52										
Weighted Average Shares Outstanding	10,674	10,578	10,482	1,712	18,023	10,199	22,090	22,690	23,290	23,890	24,490	25,090	25,690	26,290	26,890	27,490	28,090										
Cash	\$32,454	\$19,264	\$18,141	\$67,807	\$67,606	\$67,606	\$65,423	\$17,695	(\$22,687)	(\$64,127)	(\$122,598)	(\$187,918)	(\$179,872)	(\$33,129)	\$879,694	\$1,980,103	\$4,416,433										
Cash Per Share	\$3.04	\$1.82	\$1.73	\$39.61	\$3.20	\$6.65	\$2.51	\$0.78	(\$0.97)	(\$2.68)	(\$5.01)	(\$7.49)	(\$7.00)	(\$1.26)	\$21.56	\$72.03	\$157.23										
Net Cash	\$27,650	\$14,460	\$14,476	\$53,887	\$42,435	\$42,435	\$41,580	\$17,095	(\$22,687)	(\$64,127)	(\$122,598)	(\$187,918)	(\$179,872)	(\$33,129)	\$879,694	\$1,980,103	\$4,416,433										
Net Cash Per Share	\$2.59	\$1.37	\$1.37	\$31.36	\$2.35	\$4.16	\$2.47	\$0.78	(\$0.97)	(\$2.68)	(\$5.01)	(\$7.49)	(\$7.00)	(\$1.26)	\$21.56	\$72.03	\$157.23										
Cash Burn (Generation)	\$28,593					\$11,649	\$38,983	\$74,528	\$77,162	\$78,260	\$95,270	\$102,122	\$28,753	(\$109,942)	(\$576,024)	(\$1,363,608)	(\$2,399,530)										

Source: Company data, Wedbush Securities, Inc.

NEXT: Top-line results from the Phase 2 proof of concept trial of VTP-34072 in diabetic patients in H1 2015. We also anticipate data release from the multiple ascending Phase 1 study of VTP-37948/Alzheimer's and the release of data from the single dose Phase 1 safety and PK trial of VTP-43742/Autoimmune by mid:2015.

Figure 2: MILESTONES (*our estimates; **Bloomberg estimates)

Timing	Milestones	Estimated Probability	Estimated Upside/Downside
H1:15	VTP-34072/T2D-META: PHASE 2 DATA RELEASE	60:40	±10-25%
H1:15	VTP-37948/ALZ: COMPLETION OF ADDITIONAL PHASE 1 TRIALS	60:40	±5-15%
H1:15	VTP-43742/ AUTOIMMUNE: INITIATE PHASE 1	--	--

Mid:15	VTP-43742/ AUTOIMMUNE: PHASE 1 DATA RELEASE	50:50	± 0-15%
H2:15*	VTP-43742/ AUTOIMMUNE: INITIATE PHASE 1 POC	--	--
YE:15	VTP-43742/ AUTOIMMUNE: PHASE 1 POC DATA RELEASE IN PSORIASIS	50:50	± 5-20%
YE:15*	VTP-37948/ALZ: PHASE 2 DATA RELEASE	60:40	±10-30%
Q2:16*	VTP-38543/ADERM: PHASE 1 DATA RELEASE	50:50	± 0-15%

Source: Company data, Wedbush Securities, Inc.

The recent FDA approval of Novartis's IL-17A mAb Cosentyx (secukinumab) for moderate-to-severe psoriasis and that Vitae's Th17/RORyt inhibitory VTP-43742 demonstrated superior efficacy in a preclinical model reduces clinical risk and may suggest potential for best-in-class, in our view. Cosentyx was recently approved in the US (add-on) and in the EU (front-line). We believe VTP-43742, if approved, could become the preferred treatment for psoriasis given its potential oral once-daily dosing profile and superiority to anti-IL-17A mAb in preclinical studies. We anticipate data release from the Phase 1 trial of VTP-43742 in mid:15 and results from the Phase 1 PoC trial in psoriasis patients by year-end. We believe robust reduction in serum inflammatory biomarkers, specifically IL-17A, could provide positive read-through for PoC efficacy. We consider the positive preclinical comparison to an approved product as an indicator of potential clinical success and have included VTP-43742 in our price target.

Figure 3 : PIPELINE VALUATION

Vitae Product Pipeline Valuation		Eligible #	Pricing	Gross Sales		Net Revs	Peak		Estimated /	Discount	Estimate	Fair Value
Product	Indication	Patients	\$/Patient	(\$000)	Year	(\$000)	Penetration	Multiple	Actual Launch	Rate	Fair Value	per Share
VTP-34072 (WW)	Diabetes / Metabolic Syndrome	67,152,070	\$1,952	\$2,428,129	2025	\$615,346	2%	4	12/4/2019	30%	\$236,416	\$10.81
VTP-37948 (WW)	Alzheimer's Disease	8,730,000	\$5,226	\$4,318,067	2026	\$910,566	10%	3	9/4/2020	30%	\$207,371	\$9.48
VTP-43742 (WW)	Psoriasis	609,167	\$4,978	\$369,925	2027	\$144,635	11%	2	11/4/2020	30%	\$19,439	\$0.89
VTP-43742 (WW)	MS	857,143	\$49,683	\$4,405,808	2025	\$1,830,916	8%	2	11/4/2020	30%	\$124,839	\$5.71
VTP-38443 (WW)	ACS	600,000	\$30,500	\$754,409	2028	\$274,449	4%	1	12/4/2021	30%	\$8,620	\$0.39
VTP-38543 (WW)	Atopic Dermatitis	1,235,000	\$4,978	\$148,850	2028	\$50,055	2%	1	8/4/2021	30%	\$1,664	\$0.08
We use multiples to account for clinical and regulatory risk at various stages of development.									Stock		MktCap (\$000)	Upside
1: in preclinical testing	6: in Phase 3								12-month Price Target	\$21.19	\$463,225	45%
2: passed preclinical	7: Phase 3 data								Total Pipeline Value	\$27.37	\$598,349	88%
3: IND filing/stable mature product	8: regulatory review								Current Cash	\$4.75	\$85,655	
4: Phase 1 data	9: approved								Current Stockprice:	\$14.57	\$262,601	
5: Phase 2 data	10: launched											

Source: Wedbush Securities, Inc.

We reiterate our OUTPERFORM rating and our price target of \$21. Our 12-month PT is a 365-day projection of our current fair value estimate calculated using a sum-of-parts with each part calculated using a 30% annual discount from peak sales of each drug/disease to present day and applying a 1-10x multiple, depending on stage of development to reflect risk.

RISKS TO THE ATTAINMENT OF OUR 12-MONTH PRICE TARGET

Clinical Risks: Despite producing high-quality product candidates and encouraging initial clinical and preclinical data, Vitae has not completed phase-3 testing with any product candidate and, in general, the majority of clinical candidates fail. Vitae with BI are also developing a treatment for Alzheimer's disease in which the vast majority of clinical candidates have failed. Vitae is also dependent on BI for the proper development of their two lead product candidates VTP-34072 and VTP-37948. Both Vitae and BI use third parties to conduct preclinical and clinical testing which we view as higher risk as we believe third parties may be less motivated to reduce execution risk. Near-term clinical risks including data releases from the two lead programs are the highest risks to our price target at this time, in our view.

Regulatory Risks: Despite Vitae's management having big pharma experience, Vitae has not achieved regulatory approval for any product candidate.

Manufacturing Risks: On one hand, we view manufacturing risk to be lower for small molecule drug candidates versus biologics and oligonucleotides; however, Vitae relies on third parties for the manufacture of their product candidates for preclinical, clinical, and potential commercial manufacture and we view third parties as less motivated, in general. Also, if Vitae succeeds at obtaining regulatory approval for a product candidate, the current purchase order supply arrangements will need to be augmented with long-term supply arrangements. Vitae intends to also work with additional manufacturers to provide active pharmaceutical ingredients (APIs) and fill-and-finish services prior to pursuing regulatory approval. BI is responsible for the manufacture of API and fill-and-finish services for both 11β-HSD1 and BACE.

Commercial Risks: For their unpartnered programs, Vitae anticipates retaining US commercial rights in specialty markets and establish regional partnerships to commercialize outside the United States. At this time, Vitae does not have a sales force or marketing capabilities. For the two lead programs, Vitae expects BI to commercialize these products with their sales and marketing group.

Competition Risks: Vitae's product candidates, if approved, will compete with currently marketed treatments and potentially with product candidates currently in development focusing on the same mechanism of action which include: 1) 11 β -HSD1 competition from Bristol-Myers Squibb, Eli Lilly & Co., and Roche Holding AG which are also testing their inhibitors in clinical trials; 2) BACE competition from Merck & Co., AstraZeneca PLC and Eisai Co., Ltd. in collaboration with Biogen Idec which are studying BACE inhibitors in clinical trials; 3) RORyt competition from potentially multiple companies which are actively assessing RORyt inhibitors in preclinical studies; and 4) LXR β competition from Bristol-Myers Squibb which is testing an LXR β inhibitor in cardiovascular clinical trials and Alexar Therapeutics, Inc., which is developing an LXR β inhibitor for dermatologic conditions.

Intellectual Property Risks: Due to the nature of Vitae's business model, we consider intellectual property risks to be low as the company discovers its own product candidates and has composition-of-matter protection to 2030 and beyond.

Financial Risks: Vitae is a development-stage emerging pharmaceutical company and, despite receiving substantial partnership income from Boehringer Ingelheim, they have no product sales or royalty income and are unlikely to before late 2019. In January of 2015 Vitae completed a follow-on raising ~ \$38.6MM in cash and cash equivalents. With the addition of cash from the follow-on, we project the company has \$86.4MM in cash, providing cash runway into Q1 2017.

Analyst Biography

Ms. Moussatos is a Managing Director, Equity Research responsible for the coverage of stocks in the Emerging Pharmaceuticals sector. Liana joined Wedbush from Pacific Growth Equities where she was a Senior Research Analyst. Prior to that she came from UBS Global Asset Management where she was Director and Portfolio Manager of the UBS Global Biotech Funds for five years. Previously Liana was with Bristol-Meyers Squibb where she was a manager in University and Government Licensing External Science and Technology and she also worked with Sloan-Kettering Cancer Institute in the Office of Industrial Affairs and the National Cancer Institute in the Office of Technology Development.

Liana received a B.S. in Entomology and a M.S. in Zoology and Biochemistry from Clemson University and a Ph.D. in Plant Pathology from the University of California Davis and completed a postdoctoral research fellowship in Cellular and Molecular Physiology at the Yale School of Medicine.

Liana's Edge: Liana's industry and buy-side experience provide depth in her understanding of what investors need to know along with her 13 years' experience in following healthcare stocks. Her pipeline valuation includes all drug candidates / disease indications in active development and provides investors with a stock value for each program.

Analyst Certification

I, Liana Moussatos, Ph.D., certify that the views expressed in this report accurately reflect my personal opinion and that I have not and will not, directly or indirectly, receive compensation or other payments in connection with my specific recommendations or views contained in this report.

Disclosure information regarding historical ratings and price targets is available at <http://www.wedbush.com/ResearchDisclosure/DisclosureQ414.pdf>

Investment Rating System:

Outperform: Expect the total return of the stock to outperform relative to the median total return of the analyst's (or the analyst's team) coverage universe over the next 6-12 months.

Neutral: Expect the total return of the stock to perform in-line with the median total return of the analyst's (or the analyst's team) coverage universe over the next 6-12 months.

Underperform: Expect the total return of the stock to underperform relative to the median total return of the analyst's (or the analyst's team) coverage universe over the next 6-12 months.

The Investment Ratings are based on the expected performance of a stock (based on anticipated total return to price target) relative to the other stocks in the analyst's coverage universe (or the analyst's team coverage).*

Rating Distribution (as of December 31, 2014)	Investment Banking Relationships (as of December 31, 2014)
Outperform: 58%	Outperform: 19%
Neutral: 39%	Neutral: 2%
Underperform: 3%	Underperform: 0%

The Distribution of Ratings is required by FINRA rules; however, WS' stock ratings of Outperform, Neutral, and Underperform most closely conform to Buy, Hold, and Sell, respectively. Please note, however, the definitions are not the same as WS' stock ratings are on a relative basis.

The analysts responsible for preparing research reports do not receive compensation based on specific investment banking activity. The analysts receive compensation that is based upon various factors including WS' total revenues, a portion of which are generated by WS' investment banking activities.

Wedbush Equity Research Disclosures as of February 2, 2015

Company	Disclosure
Vitae Pharmaceuticals	1,3,4,5,7

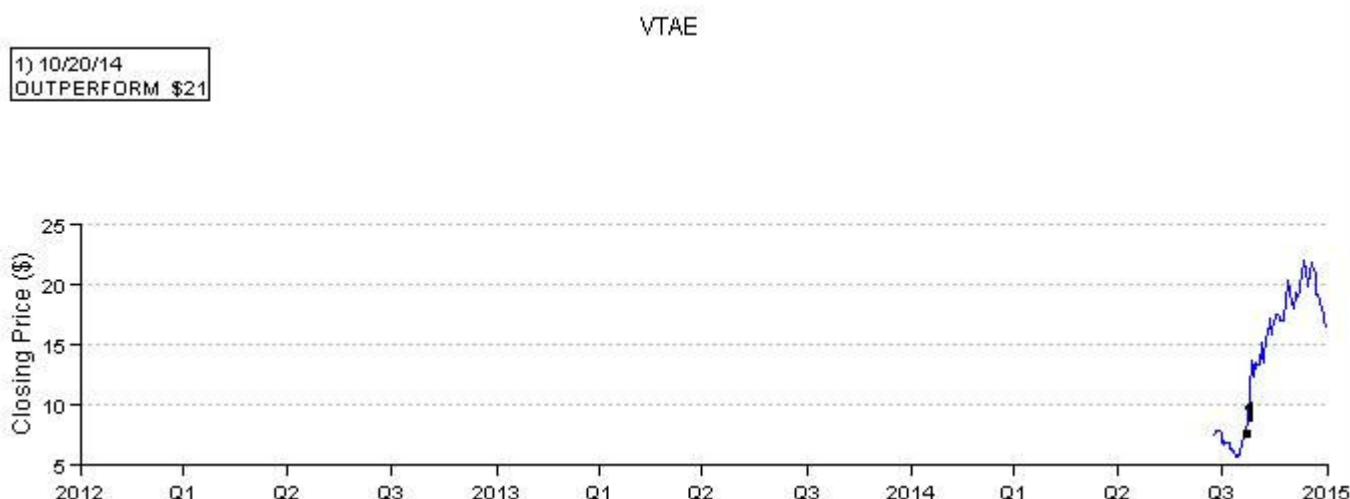
Research Disclosure Legend

1. WS makes a market in the securities of the subject company.
2. WS managed a public offering of securities within the last 12 months.
3. WS co-managed a public offering of securities within the last 12 months.
4. WS has received compensation for investment banking services within the last 12 months.
5. WS provided investment banking services within the last 12 months.
6. WS is acting as financial advisor.
7. WS expects to receive compensation for investment banking services within the next 3 months.
8. WS provided non-investment banking securities-related services within the past 12 months.
9. WS has received compensation for products and services other than investment banking services within the past 12 months.

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* WS changed its rating system from (Strong Buy/Buy/Hold/Sell) to (Outperform/ Neutral/Underperform) on July 14, 2009.

Please access the attached hyperlink for WS' Coverage Universe: <http://www.wedbush.com/services/cmg/equities-division/research/equity-research> Applicable disclosure information is also available upon request by contacting Ellen Kang in the Research Department at (213) 688-4529, by email to ellen.kang@wedbush.com, or the Business Conduct Department at (213) 688-8090. You may also submit a written request to the following: Business Conduct Department, 1000 Wilshire Blvd., Los Angeles, CA 90017.

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