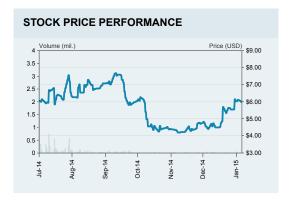


Minerva Neurosciences, Inc. (NERV)

Positive Preclinical Data for MIN-301 Highlights Upside Potential

MARKET DATA	
Price	\$6.00
52-Week Range:	\$4.08 - \$7.90
Shares Out. (M):	17.8
Market Cap (\$M):	\$106.8
Average Daily Vol. (000):	14.0
Cash (M):	\$24
Cash/Share:	\$1.33
LT Debt (M):	\$0
Source: Thomson Reuters and JMP Securities LLC	

FY DEC		2013A	2014E	2015E
Revenue (\$M)	1Q	\$0.0	\$0.0A	
	2Q	\$0.0	\$0.0A	
	3Q	\$0.0	\$0.0A	
	4Q	\$0.0	\$0.0	
	FY	\$0.0	\$0.0	\$0.0
EPS	1Q		(\$0.34)A	
	2Q		(\$2.55)A	
	3Q		(\$1.53)A	
	4Q		(\$0.34)	
	FY	(\$0.78)	(\$4.76)	(\$1.72)
Source: Company reports and JMP Securities LLC				



MARKET OUTPERFORM | Price: \$6.00 | Target Price: \$16.00

INVESTMENT HIGHLIGHTS

Positive preclinical data supports the advancement of MIN-301 into clinical development and highlights upside potential to our valuation; we reiterate our Market Outperform rating and \$16 price target on Minerva Neurosciences. Yesterday afternoon, Minerva announced positive results from a preclinical study evaluating MIN-301 in a non-human primate model of Parkinson's disease. In our view, these results support advancing this drug candidate into clinical development and we look to additional visibility on the next development steps. We continue to believe that MIN-301 represents upside potential to our valuation assumptions. Our \$16 price target is derived through a sum-of-the-parts NPV analysis of MIN-101 and MIN-202.

MIN-301 has demonstrated disease modifying potential in multiple preclinical models of Parkinson's disease. MIN-101 is a novel soluble recombinant form of NRG-1b1, an activator of ErbB4. In this preclinical study, Parkinson's disease symptoms were induced by subcutaneous injections of MPTP neurotoxin. Animals were treated with a daily subcutaneous injection of a MIN-301 analog (which differs from MIN-101 by a single amino acid), and efficacy was measured on a scale of clinical symptoms, changes in motor symptoms, and motor function. Greater improvements in Parkinsonian clinical score, AIMS, and locomotor activity (Bungalow test) were reported with MIN-301 treatment compared to vehicle. Results from this study were consistent with previous preclinical results which showed the potential to improve motor function.

Catalysts for key value drivers remain on track in 2015. We continue to anticipate the initiation of a Phase 2b trial of MIN-101 in schizophrenia in 1H15. Additionally, we expect its insomnia candidate, MIN-202, to have multiple Phase 1 read outs in the nearterm, including a bioavailability study in healthy volunteers, a multiple-ascending dose study in healthy volunteers, and a Phase 1b trial in insomnia patients secondary to major depressive disorder. We note that MIN-202 is being developed in collaboration with Janssen Pharmaceuticals.

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Company Description

Minerva Neurosciences is a clinical-stage biopharmaceutical company, headquartered in Cambridge, MA, focused on the development and commercialization of novel drug candidates to treat patients suffering from CNS diseases. The company has four novel clinical stage candidates with validated mechanisms of action, each having the potential to differentiate in important unmet medical needs. Its lead product candidates are MIN-101, for the treatment of schizophrenia, and MIN-202, which Minerva is co-developing with Jansen Pharma for the treatment of patients suffering from primary and secondary insomnia. In addition, the portfolio includes MIN-117, for the treatment of patients suffering from major depressive disorder, or MDD, and MIN-301, for the treatment of patients suffering from Parkinson's disease. Based on its current capital, the company intends to focus resources on the development of MIN-101 and MIN-202; however, development of pipeline candidates could be accelerated should additional funds, including from non-dilutive sources or partnerships, become available.

Investment Risks

Clinical risk. Minerva may not be successful in the full development and launch of its product candidates. There may be enrollment, dosing, efficacy, or safety issues that would preclude development. It is possible that drug candidates may fail to reach endpoints or statistical significance in respective clinical trials. Any of the aforementioned issues would cause a delay, or potential discontinuation of development. If product candidates make it through clinical trials, the company may encounter manufacturing issues including challenges with the scale-up to commercial quantities. All of the above circumstances should be taken into consideration when assessing clinical risk.

Regulatory risk. The company's drug candidates may not receive approval from the FDA or from ex-U.S. agencies. The FDA may request additional pre-clinical or clinical trials to provide validation for approval that would likely delay approval timelines and increase expenses. If approval is granted, the regulatory agency may impose restrictions on the label, or may require a REMS program for a drug candidate; this could limit commercial uptake and delay commercial progress.

Market risk. The market opportunity for products may not accurately reflect current estimates and there may be challenges with market adoption. This would impact the ability to reach revenue and profitability projections. The company must obtain and protect its intellectual property rights in order to effectively compete in the marketplace. Minerva could get involved in patent lawsuits that would likely be time-consuming and expensive.

Financial risk. Minerva has no commercial products generating revenue, thus, it has not been, and is not yet, profitable. It has incurred losses each year since inception due to research and development expenses. These expenses are expected to increase in the near future as product candidates advance through the pipeline. The company will likely need to raise additional capital to fund these trials and continue operations. If there are any issues with acquiring needed financing, commercializing its product candidates, or achieving sales revenue, the company may not reach profitability.

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The research analyst(s) who prepared this report does/do hereby certify that the views presented in this report are in accordance with my/our personal views on the securities and issuers discussed in this report. As mandated by SEC Regulation AC no part of my/our compensation was, is or will be directly or indirectly related to the specific views or recommendations expressed herein. This certification is made under the obligations set forth in SEC Regulation AC. Any other person or entity may not use it for any other purpose. This certification is made based on my/our analysis on the date of this report's publication. I/We assume no obligation to update this certification to reflect any facts, circumstances or events that may subsequently come to my/our attention. Signed Jason N. Butler

JMP Securities Disclosures:

JMP Securities currently makes a market in the security of Minerva Neurosciences, Inc.

JMP Securities was manager or co-manager of a public offering of securities for Minerva Neurosciences, Inc. (NERV) in the past 12 months, and received compensation for doing so.

JMP Securities expects to receive OR intends to seek compensation for investment banking services from Minerva Neurosciences, Inc. in the next 3 months.

JMP Securities Investment Opinion Definitions:

Market Outperform (MO): JMP Securities expects the stock price to outperform relevant market indices over the next 12 months.

Market Perform (MP): JMP Securities expects the stock price to perform in line with relevant market indices over the next 12 months.

Market Underperform (MU): JMP Securities expects the stock price to underperform relevant market indices over the next 12 months.

JMP Securities Research Ratings and Investment Banking Services: (as of January 6, 2015)

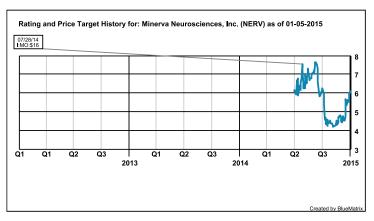
							# Co's	
							Receiving	
							IB	
		# Co's	%		# Co's	%	Services in	% of Co's
	Regulatory	Under	of	Regulatory	Under	of	Past 12	With This
JMP Rating	Equivalent	Coverage	Total	Equivalent	Coverage	Total	Months	Rating
								_
MARKET OUTPERFORM	Buy	294	65.33%	Buy	294	65.33%	101	34.35%
MARKET PERFORM	Hold	150	33.33%	Hold	150	33.33%	17	11.33%
MARKET UNDERPERFORM	Sell	3	0.67%	Sell	3	0.67%	0	0%
COVERAGE IN TRANSITION		1	0.22%		1	0.22%	0	0%
TOTAL:		450	100%		450	100%	120	26.67%

Stock Price Chart of Rating and Target Price Changes:

Note: First annotation denotes initiation of coverage or 3 years, whichever is shorter. If no target price is listed, then the target price is N/A. In accordance with NASD Rule 2711, the chart(s) below reflect(s) price range and any changes to the rating or price target as of the end of the most recent calendar quarter. The action reflected in this note is not annotated in the stock price chart. Source: JMP Securities.

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January 6, 2015



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