

INSTITUTIONAL RESEARCH Specialty Pharma COMPANY UPDATE

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Tonix Pharmaceuticals (Nasdaq/TNXP)

BUY News expected on Tonmya Phase 3 trial in 2018

Tonix is developing innovative pharmaceutical products to address public health challenges

Investment Highlights

1) Tonix is making solid progress in its key HONOR trial, a Phase 3 study using the Company's Tonmya (Cyclobenzaprine HCI Sublingual Tablets) 5.6 mg in the treatment of military-related posttraumatic stress disorder, or PTSD. In Tonix's most recent quarterly earnings report (Q2/17 ending June), the Company related that enrollment in the 275-patient trial is continuing, and the study is on track for an unblended interim analysis of 50% of efficacyevaluable participants in the first half of 2018, with topline results from the full study expected to be released later in 2018. In addition, the Company announced this week that Dr. Gregory Sullivan, Tonix's Chief Medical Officer, will present two scientific posters at next week's 2017 Military Health System Research Symposium in Orlando (Tuesday, August 29). The posters cover additional retrospective analyses of the Phase 2 atEase study of Tonmya and an analysis of the study protocol of the ongoing HONOR Phase 3 Tonmya study. Earlier in the second quarter, Tonix received notice that the US Patent and Trademark Office had issued a patent protecting the composition and manufacture of the proprietary Tonmya formulation (with a patent life through 2034) as well as receiving conditional approval by the FDA of the proposed trade name of Tonmya for the Company's TNX-102 SL treatment of PTSD.

2) In other pipeline-related developments, Tonix continues to add value to its other clinical programs, including TNX-601 for daytime dosing treatment for PTSD and TNX-801, a pre-IND candidate vaccine for Smallpox. In the most recent second quarter, Tonix continued work on TNX-801 (synthesized horsepox) to meet Good Manufacturing Practice (GMP) quality standards related to a potential study to be supported by an Investigational New Drug (IND) application. Longer-term, the Company's TNX-601 (tianeptine oxalate oral formulation) would provide leverage as a product line alternative to Tonmya in PTSD, as TNX-601 has a different mechanism of action from Tonmya and would be developed for

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Current Price\$3.04Price Target\$9.00

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Estimates	F2016A	F2017E	F2018E	
Revenues(\$000s]	\$0	\$0	\$0	
EPS	(\$15.41)	(\$2.81)	(\$2.79)	
Stock Data				
52-Week Range			\$2.85-\$28	
Shares Outstanding	g (mil.)		7.5	
Market Capitalizati	on (mil.)		\$22.8	
Enterprise Value (I	mil.)		-\$11.6	
Debt to Capital (6/	17)		0.0%	
Book Value/Share	(6/17)		\$4.53	
Price/Book			0.7 x	
Average Trading V	olume (3-Month)		156,500	
Insider Ownership			4.0%	
Institutional Owner	rship		23.7%	
Short interest		500,000		
Dividend / Yield			\$0.00/0.0%	
TNXP Tonix Pharmaceuticals Holding (21-Aug-2017 2:14pm	Corp. Nasdaq CM Open 3.05 High 3.18 Low 3.01 L	ast 3.02 Volume 187.14	© StockCharts.com (Chg +0.07 (+2.37%) ▲	
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daytime dosing. While the active ingredient in TNX-601 has been approved in a number of international markets for a long period of time, Tonix will be developing a proprietary formulation for application in treatment of PTSD in the US.

3) Tonix recently reported its second quarter 2017 results, including a reduced net loss of \$4.8 million or (\$0.65) per share, as compared to a net loss of \$9.8 million or (\$4.97) per share in Q2/16. The reduced net loss this year was due to both lower R&D costs and general and administrative expenses, as the Company was involved in fewer product candidate programs, specifically its TNX-102 SL fibromyalgia treatment, which was discontinued in September 2016. During the third quarter, cash used in operations for Tonix was approximately \$4.4 million, and with a little over \$34 million in cash on hand as of June 30th, Tonix management estimates that the Company will have adequate financial resources available to complete its ongoing Phase 3 HONOR trial in PTSD. In addition, earlier this month Tonix announced a new \$9 million at-the-market equity sales agreement with Cowen and Company.

Conclusion/Stock Valuation

We are re-initiating our BUY rating on Tonix Pharmaceuticals due to changes in research staffing, and initiating a \$9 Price Target on these shares as well. With a solid balance sheet, a primary focus on a Phase 3 clinical program for PTSD, and other assets as well, growth-oriented investors may find these shares attractive. On the same hand, with a current market capitalization well below cash on hand, value-oriented investors may also look with interest at TNXP shares. Our comparable group of neurology-targeted or new formulation oriented stocks currently trade at an average market capitalization of slightly over \$67 million, well above the current \$23 million value of TNXP. The aforementioned group of stocks include Brainstorm Cell Therapeutics (BCLI, Not Rated), Cerecor (CERC, Not Rated), Marinus Pharmaceuticals (MRNS, Not Rated), Ovid Technologies (OVID, Not Rated), Prana Biotechnology (PRAN, Not Rated), Rexahn Pharmaceuticals (RNN, Not Rated) and vTv Therapeutics (VTVT, Not Rated). Using the average market capitalization for our seven-member comparable stock group, we estimate a stock valuation of \$9 for TNXP, and therefore we are re-initiating our BUY rating on TNXP shares and initiating a 12-18 month price target of \$9 per share.

Risk Factors

In addition to normal economic and market risk factors that impact most equities and the common risks shared by Tonix with other companies in the industry, we believe an investment in TNXP involves the following risks:

- **Reliance on key management** At present, TNXP relies on several key members of its management team who either founded the Company or have been in key executive positions for an extended period of time. Should one or more of these key executives leave the Company, TNXP could find it difficult to replace their long-standing knowledge of operations and industry expertise.
- **Reliance on partnerships** To date, TNXP has signed certain development partnerships and agreements for its pharmaceutical technologies and products. Thus, in the future certain factors related to product commercialization and new product development may be determined by third parties and out of the control of Company management.
- Limited stock liquidity Trading volume in TNXP stock is comparatively light and these shares have a relatively limited history of trading on major US stock exchanges compared with other healthcare stocks. As such, news regarding TNXP, its target market, partners and/or competitors could lead to significant volatility in the stock price.



- **Competitive Markets** The Company competes in its target neurological product market with a number of companies, many of which are considerably larger than the Company. There can be no assurance that the Company will be able to successfully compete and launch new products into these competitive markets in the future.
- **FDA and regulatory risks** TNXP is subject to regulatory review for its ongoing research and development activities, principally the US Food and Drug Administration's application processes. In addition, the quality assurance and manufacture of the Company's pharmaceutical products are subject to ongoing oversight and regulation, and any negative correspondence from the FDA or other regulatory agencies could have an adverse effect on the ongoing operations of the Company.
- Lack of historic profitability TNXP has not achieved operating profitability on an annual basis for several years, and according to our forecasts may not be expected to do so in the near future. Although the Company maintains adequate cash reserves at the present time, there can be no assurance the Company will not need to raise additional working capital in the future should operating losses continue.
- Need to defend patents and other intellectual property TNXP currently holds a number of US and International patents on its products and related technologies, some of which expire in the near future. The Company may be required to defend its patents in the US and overseas in the future, and there can be no assurance these defenses will be successful.



	<u>Tonix Pharmaceuticals, Inc.</u> <u>Consolidated Statements of Income</u> <u>(in S000s, except EPS)</u>						Robert M. Wasserman			
FYE December	<u>2009</u>	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	2015	<u>2016</u>	<u>2017E</u>	<u>2018E</u>
Revenues				1						
Licensing fees	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Grants and other funding					0.0	0.0	0.0	0.0	0.0	0.0
Product sales and royalties	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0
Total revenues	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0
Expenses										
Research and development	32.5	584.3	1,158.2	2,583.3	4,649.8	18,617.0	35,504.0	28,533.0	11,600.0	12,500.0
Payroll costs	0.0	414.0	731.3	1,820.9	3,247.7	4,511.0	5,824.0	5,200.0	4,200.0	5,000.0
Professional services	126.9	614.3	915.2	1,444.5	1,882.1	2,564.0	4,247.0	3,200.0	2,400.0	3,000.0
General and administrative and other	<u>26.0</u>	<u>316.2</u>	<u>573.9</u>	<u>812.8</u>	<u>1,108.9</u>	<u>1.964.0</u>	<u>2,587.0</u>	<u>2.036.0</u>	<u>1,700.0</u>	<u>2.000.0</u>
Total operating expenses	185.4	<u>1,928.7</u>	3,378.5	<u>6.661.4</u>	<u>10,888.4</u>	27,656.0	48,162.0	38,969.0	<u>19,900.0</u>	22,500.0
Loss from operations	(185.4)	(1,928.7)	(3,378.5)	(6,661.4)	(10,888.4)	(27,656.0)	(48,162.0)	(38,969.0)	(19,900.0)	(22,500.0)
Interest expense, net	(43.3)	(35.8)	(91.6)	(1,613.0)	4.0	40.0	108.0	127.0	200.0	200.0
Other expense, net	<u>7.9</u>	<u>0.0</u>	<u>0.0</u>	(1.175.2)	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
Net income (loss)	(220.8)	(1,964.5)	(3,470.1)	(9,449.6)	(10,884.4)	(27,616.0)	(48,054.0)	(38,842.0)	(19,700.0)	(22,300.0)
Cumulative dividends on preferred stock	32.0	<u>0.0</u>	<u>0.0</u>	0.0	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0
Net income (loss) attributable to common stock	(252.8)	(1,964.5)	(3,470.1)	(9.449.6)	(10,884.4)	(27.616.0)	(48,054.0)	(38,842.0)	(19,700.0)	(22,300.0)
Basic and diluted income (loss) per share	(\$73.72)	(\$35.16)	(\$32.39)	(\$55.80)	(\$33.68)	(\$27.66)	(\$28.62)	(\$15.41)	(\$2.81)	(\$2.79)
Basic and diluted shares outstanding	3.4	55.9	107.1	169.3	323.1	998.6	1,679.1	2,521.0	7,000.0	8,000.0
Key ratios:										
Cash Flow/share	(\$60.39)	(\$27.30)	(\$27.72)	(\$42.26)	(\$28.11)	(\$23.95)	(\$25.91)	(\$13.98)	(\$2.50)	(\$2.51)

	Balance Sheets (\$000s)		
Assets:	<u>12/31/16</u>	6/30/17	
Cash and equivalents	\$18,941	\$34,355	
Marketable securities	7,180		
Prepaid expenses and other	<u>1.019</u>	1.130	
Total current	27,140	35,485	
Property & equip., net	150	118	
Restricted cash	89	89	
Intangible assets and security deposits	<u>131</u>	<u>131</u>	
TOTAL ASSETS	\$27,510	\$35,823	
Liabilities:			
Accounts payable	\$872	\$1,179	
Accrued expenses	2,116	<u>651</u>	
Total current	2,988	1,830	
Deferred rent payable	33	24	
Stockholders' equity (deficiency)	25,361	33,969	
TOTAL LIAB & EQ	\$28,382	\$35,823	

Source: Dawson James Securities, Inc. estimates; Company documents



Important Disclosures:

Price Chart:



<u>Price target and ratings changes over the past 3 years:</u> Re-Initiated with BUY rating and Price target of \$9 - August 21, 2017

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- 2) **Neutral**: the analyst believes the price of the stock is fairly valued for the next 12-18 months;
- 3) **Sell**: the analyst believes the price of the stock will decline by at least 20% over the next 12-18 months and should be sold.

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	Company Co	verage	Investment Banking			
Ratings Distribution	# of Companies	% of Total	# of Companies	% of Totals		
Market Outperform (Buy)	11	79%	3	27%		
Market Perform (Neutral)	0	0%	0	0%		
Market Underperform (Sell)	0	0%	0	0%		
Ratings Suspension*	3	21%	3	100%		
Total	14	100%	6	43%		
*Suspensions are ratings under review for possible change due to unusual						
market-moving news, and/or analyst departure/change						

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