# Equity Research

# Flash Comment



March 20, 2014 CNCE-NASDAQ--Outperform (1) / V

Biotechnology

# NCE: Publication Of Potential Mechanism For Dextromethorphan In Depression Lends More Support For One Of CNCE's Partnered Programs

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### Sector Rating: Biotechnology, Market Weight

- \*\*Today, a publication was announced by Avanir Pharmaceuticals on the potential mechanism for dextromethorphan in treating depression. The preclinical work was published in PLOS ONE, a peer-reviewed medical journal.
- \*\*Recall that Concert is partnered with Avanir on AVP-786, a deuterated form of dextromethorphan with lower-dose quinidine, for treating major depression, expected to enter phase II later this year.
- \*\*While there was some evidence from prior studies in pseudobulbar affect that dextromethorphan-based agents could improve depressive symptoms in certain patients, the article provides some corroboration on the underlying mechanism. While dextromethorphan had been previously hypothesized to hold rapid-acting antidepressant activity given its pharmacodynamic resemblance to ketamine, an NMDA receptor antagonist, the study found some antidepressant action through sigma-1 ( $f\tilde{a}1$ ) receptors in vivo.
- \*\*BOTTOM LINE: The program does not account for a significant proportion of our current CNCE valuation -- we currently model U.S. commercial launch of AVP-786 by 2021, with net royalties to CNCE of 10% and AVP-786 only representing 3.3% and 6.5% of our 2022 probability-weighted and unweighted EPS projections, respectively. Still, we note that this additional information on the mechanism of dextromethorphan may differentiate it from other antidepressants without action at the fãi receptor, and could increase the likelihood of ultimate success. We continue to like CNCE based on the versatile deuteration platform, potential of their pipeline programs, and optionality on higher-risk/high-reward partnership programs such as AVP-786.

**Concert Pharmaceuticals, Inc. (CNCE-NASDAQ)** 

Price as of 3/20/2014: \$14.00

FY 14 EPS: \$2.05 FY 15 EPS: \$-2.05 Shares Out.: o.o MM Market Cap.: \$0.0 MM

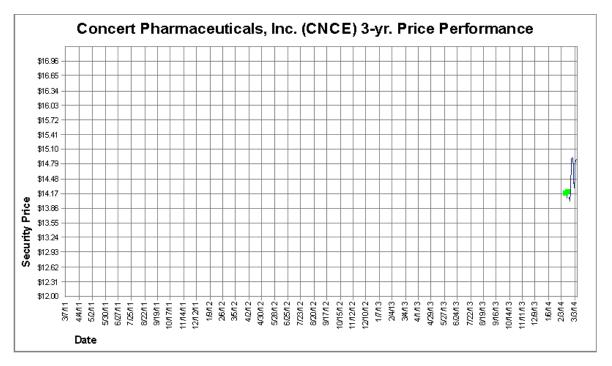
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	Date	Publication Price (\$)	Rating Code	Val. Rng. Low	Val. Rng. High	Close Price (\$)
Γ	2/13/2014	IPO at \$14.00				

Source: Wells Fargo Securities, LLC estimates and Reuters data

#### Symbol Key

- Rating Downgrade
- Rating Upgrade
- Valuation Range Change
- Initiation, Resumption, Drop or Suspend
- Split Adjustment
- Initiation, Resumption, Drop or Suspe
  Analyst Change

#### Rating Code Key

1 Outperform/Buy SR Suspended 2 Market Perform/Hold NR Not Rated 3 Underperform/Sell NE No Estimate

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CNCE: Key risks, in our view, are failure of '354 and/or '499 to show efficacy in subsequent studies and regulatory hurdles in spasticity or CKD.

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**O = Overweight:** Industry expected to outperform the relevant broad market benchmark over the next 12 months.

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