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Conatus Pharmaceuticals Inc. (CNAT)

Overweight

Data Driven Phase 3 Plan Could Become More Visible in 2H14

CONCLUSION

We recently hosted Conatus management for meetings with investors and have enhanced clarity on timing and the decision tree that will be deployed to determine next, perhaps pivotal, steps in the emricasan development program. Based on our discussions, we believe that most investors are focused primarily on the upcoming acute-on-chronic liver failure (ACLF) Phase II biomarker and PK data yet this year that may define the path forward to Phase III. Three possible paths that we can see: 1) ACLF, 2) CLF (chronic liver failure) for patients not on a transplant list, and 3) HCV-POLT (post-orthotopic liver transplant, reinfected with HCV and displaying fibrosis). As the potential clinical utility and regulatory path for emricasan becomes clearer in the eyes of investors, we expect share price appreciation for Conatus. We reiterate our Overweight rating and \$16 price target.

• ACLF data on its way. Management has guided to the ACLF data by or before YE and we expect this and other info to define a Phase III path (in ACLF, CLF, or otherwise) within next 6-12 months. The most important of the ACLF data, in our view, is likely to be a correlation of cleaved cytokeratin 18 (cCK18) with clinical outcomes including liver function and time to clinical worsening. Recall that Conatus sees this as more than a "signal biomarker" but one that plays a role in perpetuating the disease process. Additionally, the company hopes to establish changes in cCK18 levels as a primary endpoint for future studies. Also in the 2nd half, Conatus expects top-line data from the Phase II in NAFLD/NASH, as well as pK information for patients with/without multi-organ liver/renal failure (Exhibit 1 has a table of current NAFLD/NASH studies that we are aware of). Data from the HCV-POLT study is anticipated in 2017, however, the study is open to Conatus (though not to patients or physicians), allowing for interim data analyses (the 1st one in 1H15) that may help shape other development programs as well.

RISKS TO ACHIEVEMENT OF PRICE TARGET

Principal risks to our price target include: 1) emergence of a safety signal or lack of efficacy; 2) new HCV anti-virals could reduce size of HCV-POLT market opportunity beyond our expectations 3) delay in emricasan to reach the market and 4) inability to raise capital.

COMPANY DESCRIPTION

Conatus focuses on treatments for liver disease.

PRICE: US\$7.61 TARGET: US\$16.00

DCF of projected 2015-2028 free cash flows, 15% discount rate

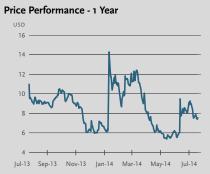
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Changes	Previous	Current
Rating	_	Overweight
Price Tgt	_	US\$16.00
FY14E Rev (mil)	_	US\$o.o
FY15E Rev (mil)	_	US\$o.o
FY14E EPS	_	US\$(1.78)
FY15E EPS	_	US\$(1.31)
52-Week High / Low	US\$15.	.67 / US\$5.06
Shares Out (mil)		15.4
Market Cap. (mil)		US\$117.2
Avg Daily Vol (000)		703
Book Value/Share		US\$3.10
Net Cash Per Share		US\$3.30
Debt to Total Capital		0%
Yield		0.00%
Fiscal Year End		Dec



Source: Bloomberg

YEAR REVENUE (US\$ m)					EARNINGS PER SHARE (US\$)							
TEAR	Mar	Jun	Sep	Dec	FY	FY	Mar	Jun	Sep	Dec	FY	FY P/E
2013A	0.0	0.0	0.0	0.0	0.0	NA	(1.29)	0.16	(0.28)	(0.33)	(0.63)	NM
2014E	o.oA	0.0	0.0	0.0	0.0	NA	(0.34)A	(0.38)	(0.47)	(0.59)	(1.78)	NM
2015E	_	_	_	_	0.0	NA	_	_	_	_	(1.31)	NM

Reflects Diluted Earnings Per Share GAAP

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We anticipate that strategies for development will be right sized for a capital constrained small biotechnology company. For the larger market opportunities (NASH, NAFLD) or those with more challenging/undefined endpoints and patient populations (also NASH, possibly ACLF), we expect Conatus will seek partnerships to support development. Indications with more clearly defined endpoints (delay in progression from compensated to decompensated status in CLF patients, or resolution of fibrosis in HCV-POLT) and manageable market size (again, HCV-POLT with ~50k U.S. patients, for example), we expect Conatus probably will retain ownership. Regarding an outline of its Phase III plans in terms of indication and protocol specifics, we will need to wait additional data and the completion of multifactorial analyses of clinical endpoints/regulatory path/commercial opportunity, as well as differentiation based on emricasan mechanism. However, we believe that management has a firm grasp of the possible scenarios and costs, as well as need for enhanced visibility and certainty in the institutional investor community. Thus, we guestimate that a Phase III program in, for example ACLF, could involve a 6 month study of ~400 patients with a total cost of ~\$50mm. Finally, the company reiterated previous guidance to end FY14 with \$28-32mm on its balance sheet.

Exhibit 1

NASH/NAFLD STUDIES

Orug	Sponsor	Indication	Mechanism	Status	Possible next data
mricasan	Conatus	NAFLD/NASH	Pan-caspase inhibitor	In Phase II	YE14
FT-505	Genfit	NASH	Oral PPAR- $\alpha/\delta(\beta)$ agonist	In Phase IIb	1Q15
CA	Intercept	NASH	Oral FXR agonist	Phase IIb stopped on + interim	Full IIb data at AASLD (Nov)
CA	Intercept	Primary biliary cirrhosis	Oral FXR agonist	In Phase II	Data late-'14/early-'15
CA	Intercept/Dainippon	NASH	Oral FXR agonist	In Phase II	2015
imtuzumab	Gilead	NASH w/ advanced fibrosis	Lysyl Oxidase-Like Molecule 2 inhibitor	In Phase II	Possible interim mid-'15
letreleptin	NIDDK	NAFLD/NASH	Leptin receptor agonist	In Phase II	2H15?
osartan	Newcastle University	NASH	ARB	In Phase III	late- '14/early-'15?
etimibe	UCSD	NASH	Inhibits cholesterol absorption	In Phase II	2015
tagliptin	UCSD	NASH	DPP-4 inhbitor	Phase II ready	2016
itamin E	NIDDK	NAFLD	Antioxidant	In Phase II	2018
adenosyl-L-methionine	Abbott	NAFLD	Methyl transfer	In Phase II	2H14?
oflumilast/Pioglitazone	Takeda	NASH	PDE-4 inhibitor/DPP-4 inhibitor	In Phase II	2014
R-MD-02	Galectin	NASH w/ advanced fibrosis	GAL-3 inhibitor	In Phase I	2H14

Source: Piper Jaffray, clinicaltrials.gov

Conatus Pharmaceuticals Earnings Model	2012A	1Q 13A	2Q 13A	3Q 13A	4Q 13	2013A	1Q 14	2Q 14E	3Q 14E	4Q 14E	2014E	2015E	2016E
(\$ in 000s, except per share amounts)													
US Emricasan Sales	0	0	0	0	0	0	0	0	0	0	0	0	0
Ex-US Emricasan Sales	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Product Sales	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0
Costs & Expenses:													
Cost of Goods Sold	0	0	0	0	0	0	0	0	0	0	0	0	0
R&D	5,528	968	1,117	1,886	2,977	6,947	3,651	4,454	5,612	7,295	21,011	23,533	27,768
SG&A	3,086	749	670	1,108	2,124	4,651	1,595	1,755	1,930	2,123	7,404	11,105	21,100
Total Operating Expenses	8,615	1,717	1,788	2,993	5,101	11,598	5,246	6,209	7,542	9,418	28,415	34,638	48,869
Operating Income	(8,614.6)	(1,717)	(1,788)	(2,993)	(5,101)	(11,598)	(5,246)	(6,209)	(7,542)	(9,418)	(28,415)	(34,638)	(48,869)
Interest Income	26	0	0	8	14	22	21	255	235	202	713	639	2,850
Interest Expense	(70)	(18)	(196)	(204)	(45)	(463)	(18)	0	0	0	(18)	0	0
Other income (expense), net	(90)	(563)	(2,890)	(131)	6	(3,578)	(1)	0	0	0	(1)	0	0
Pretax Income (Loss)	(8,749)	(2,297)	(4,873)	(3,321)	(5,126)	(15,616)	(5,243)	(5,953)	(7,307)	(9,216)	(27,720)	(33,999)	(46,018)
Provision for (benefit from) income taxes	0	0	0	0	0	0	0	0	0	0	0	0	0
Tax Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.0%	0.0%
Other	92	547	5,097	0	0	5,644	2	0	0	0	2	0	0
Net Income (Loss) GAAP	(8,658)	(1,750)	224	(3,321)	(5,126)	(9,972)	(5,241)	(5,953)	(7,307)	(9,216)	(27,718)	(33,999)	(46,018)
Stock option expense, tax adjusted	144	21	0	0	25	46	25	25	25	25	100	103	105
Other	90	563	0	12	(6)	569	1	0	0	0	1	0	0
Net Income (Loss) Non-GAAP	(8,423)	(1,165)	224	(3,309)	(5,107)	(9,357)	(5,215)	(5,928)	(7,282)	(9,191)	(27,617)	(33,897)	(45,913)
Diluted Earnings Per Share Non-GAAP	(\$0.91)	(\$1.10)	\$0.16	(\$0.28)	(\$0.33)	(\$1.27)	(\$0.34)	(\$0.38)	(\$0.47)	(\$0.59)	(\$1.78)	(\$1.30)	(\$1.72)
Earnings Per Share, Diluted Fully Taxed						nm					nm	nm	nm
Basic Earnings Per Share Non-GAAP	(\$0.91)	(\$1.10)	\$0.20	(\$0.28)	(\$0.33)	(\$1.27)	(\$0.34)	(\$0.38)	(\$0.47)	(\$0.59)	(\$1.78)	(\$1.31)	(\$1.74)
Diluted Earnings Per Share GAAP	(\$0.94)	(\$1.29)	\$0.16	(\$0.28)	(\$0.33)	(\$0.63)	(\$0.34)	(\$0.38)	(\$0.47)	(\$0.59)	(\$1.78)	(\$1.31)	(\$1.73)
Basic Earnings Per Share GAAP	(\$0.94)	(\$1.65)	\$0.20	(\$0.28)	(\$0.33)	(\$1.36)	(\$0.34)	(\$0.38)	(\$0.47)	(\$0.59)	(\$1.78)	(\$1.31)	(\$1.75)
Diluted Shares Outstanding (000s)	9,255	1 261	1 420	11 664	15 252	7 250	15 412	15 505	15 507	15 600	15 554	26.004	26.654
		1,361 1.061	1,439 1.139	11,664	15,353	7,358 7.358	15,412	15,505	15,597	15,690	15,551	26,004	26,654
Basic Shares Outstanding (000s)	9,255	1,061	1,139	11,664	15,353	7,358	15,412	15,505	15,597	15,690	15,551	25,926	26,315

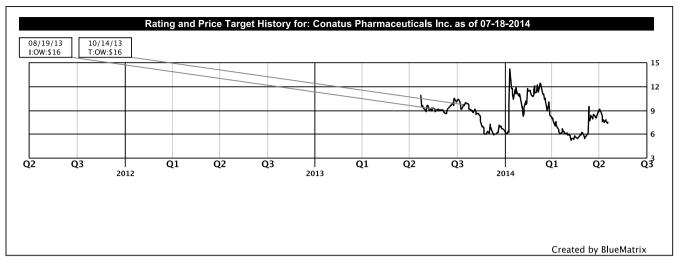
Proprietary to Piper Jaffray & Co. July 20, 2014

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Rating	Count	Percent	Count	Percent				
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HOLD [N]	203	35.37	20	9.85				
SELL [UW]	14	2.44	0	0.00				

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Analyst Certification — Charles C. Duncan, PhD, Sr. Research Analyst — Roy Buchanan, Ph.D., Research Analyst

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