PiperJaffray.

Chimerix, Inc. (CMRX)

Overweight

Biopharma: Top Pick For 2014

CONCLUSION

Brincidofovir is an elegant approach to an anviral problem. With the addition of a lipid conjugate, CMRX transformed cidofovir from a highly toxic I.V. drug into the well-tolerated & oral brincidofovir, which has potent activity against a range of viruses. Brincidofovir is being evaluated in the Phase III SUPPRESS study for prevention of CMV (cytomegalovirus) reactivation in patients undergoing allogeneic stem cell transplantation (SCT), a procedure which leaves patients transiently immunocompromised and vulnerable to infections. Positive results from the Phase II study bode well for SUPPRESS, with data expected in mid-2015. But over the course of 2014, we expect meaningful catalysts to highlight brincidofovir's ability to address a much broader market opportunity. Overweight rated CMRX is a Top Pick for 2014 with a \$33 PT.

- SUPPRESS designed for success. The Phase II study of brincidofovir for prevention of CMV reactivation in SCT patients showed a >50% reduction in risk versus placebo. The Phase III study has been further optimized with earlier onset of therapy and a dose-management strategy to deal with side effects (diarrhea). Given specialist enthusiasm, we believe enrollment timelines may be swift.
- 2014 won't be boring: CMRX has accumulated a wealth of data regarding the role of brincidofovir in other viral settings including active CMV disease, neonatal herpes encephalitis, PML, adenovirus and refractory warts with over 400 patients treated in expanded access programs. Publication of some of these experiences in 2014 are likely to help us identify other settings for which brincidofovir is likely to be used. As well, these results could help enable CMRX achieve its objective of a label for brincidofovir that encompasses dsDNA viruses more broadly. We believe the allogeneic stem cell transplant market supports a \$250M U.S. opportunity, but sales could approach \$1B globally if one were to factor in additional applications of the drug.
- And a Biodefense opportunity, too. Brincidofovir has activity against pox virus and is likely a contender for the government's Strategic National Stockpile (SNS). The only smallpox treatment being delivered to the SNS is ST-246, which has a 5-year \$433M contract even thought the only patient ever treated with the drug for active vaccinia developed resistance. Look for progress on this front in 2014.
- Valuation metrics: Our \$33 PT is derived from a DCF of FCF which assumes brincidofovir revenue of \$635M in 2022 and uses an 11% discount rate. The target represents a 10x multiple on our 2020 EPS estimate of \$3.08.

RISKS TO ACHIEVEMENT OF PRICE TARGET

Brincidofovir may fail to reach the primary endpoint in the SUPPRESS study or safety concerns could limit its potential.

COMPANY DESCRIPTION

CMRX is an antiviral drug development company.

REVENUE (US\$ m) **EARNINGS PER SHARE (US\$)** YEAR Jun Sep Jun FY P/E 2012A 6.2 (0.81)NM 3.1 0.0 0.0 33.7 12.OX 2013E 1.8A o.8A 0.9A 1.0 71.2X (22.58)A (o.91)A (o.26)A (0.35)(1.88)NM 5.7 2014E 1.0 101.5x (0.50) (0.50) (1.98)4.0 (0.47)(0.51)

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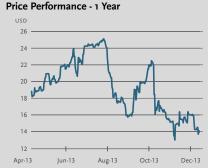
PRICE: US\$13.95 TARGET: US\$33.00

DCF thru 2022; 11% disc rate & 13x term multiple

Joshua E. Schimmer, MD

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Changes	Previous	Current
Rating	_	Overweight
Price Tgt	_	US\$33.00
FY13E Rev (mil)	_	US\$5.7
FY14E Rev (mil)	_	US\$4.0
FY13E EPS	_	US\$(1.88)
FY14E EPS	_	US\$(1.98)
52-Week High / Low	US\$27.0	o / US\$12.96
Shares Out (mil)		29.1
Market Cap. (mil)		US\$405.9
Avg Daily Vol (000)		129
Book Value/Share		US\$3.97
Net Cash Per Share		US\$4.67
Debt to Total Capital		1%
Yield		0.00%
Fiscal Year End		Dec



Source: Bloomberg

Chimerix, Inc.

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	CMRX Key Milestones										
Program	Indication	Туре	Event	Expected Timing							
	CMV Prevention	Clinical Data	Phase III SUPPRESS Study results	Mid-2015							
	Smallpox	Clinical Event	Begin PK studies in healthy volunteers	4Q13							
	Smallpox	Clinical Data	Advance pivotal animal studies for BARDA	2014							
Brincidofovir	AdV Preemptive Therapy	Regulatory	Discuss path forward with FDA	1H14							
	CMV Prevention	Regulatory	Discuss path forward with EMEA	1H14							
	CMV/Transplant	Regulatory	Define full approval path forward with FDA	1H14							
	Solid organ Tx	Clinical Event	Define development path forward	2014							
	Pede setting	Clinical Event	Finalize pediatric formulation	1Q14							
CMX157	HIV	Clinical Data	Phase II results from MRK	2014?							

Source: PJC and Company reports

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Discounted Cash Flow (DCF) and Equity Valuation	(\$ '000):				
Assumed Discount Rate (%)	11.0%				
Discounted Net Cash Flow (2014-'22)					
Terminal Growth Rate (%)	3.0%				
Implied Terminal Year FCF Multiple	12.9x				
NPV of FCF	\$1,236				
Terminal value as % of total	85.5%				
Shares Outstanding 2018E (million)	41				
Cash balance	128.5				
Price Target	\$33				
Current Price	\$15.10				
Mkt Cap, Current Share Count	\$436				
Implied Mkt Cap, Price Target	\$955				
Implied Multiple on 2020 Rev	2.0x				

IIIIpiica	Multiple on 2020 Nev	
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	CMRX Price Target Sensitivity Analysis										
		Discount Rate									
		10.0%	11.0%	12.0%	13.0%						
	1.0%	\$32	\$28	\$24	\$21						
<u>_</u>	2.0%	\$36	\$30	\$26	\$22						
rminal owth	3.0%	\$40	\$33	\$28	\$24						
ern	4.0%	\$46	\$37	\$31	\$26						
JE 19	5.0%	\$54	\$42	\$34	\$28						
EPS growth	rate in 2022:		19.1%								

Source: Company Reports and Piper Jaffray.

	CMRX Potential Upside From Current Levels								
	Discount Rate								
		10.0%	11.0%	12.0%	13.0%				
	1.0%	115%	83%	57%	36%				
<u>_</u> _	2.0%	137%	99%	69%	46%				
手	3.0%	165%	119%	84%	57%				
erminal irowth	4.0%	203%	145%	103%	71%				
Te G	5.0%	256%	180%	127%	88%				

Source: Company Reports and Piper Jaffray.

Chimerix Quarterly P&L	2012A	1Q13A	2Q13A	3Q13A	4Q13E	2013E	1Q14E	2Q14E	3Q14E	4Q14E	2014E
Total Product Revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Collaboration/license/royalty revenue	17.4	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
Contract/grant revenue	16.3	1.8	0.8	0.9	1.0	4.5	1.0	1.0	1.0	1.0	4.0
Total Revenue	\$33.7	\$1.8	\$0.8	\$0.9	\$1.0	\$5.7	\$1.0	\$1.0	\$1.0	\$1.0	\$4.0
Operating Expenses:											
COGS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R&D	27.8	6.5	6.3	5.3	8.0	26.1	11.0	12.0	12.0	12.0	47.0
SG&A	8.7	1.8	2.2	2.0	3.0	9.0	2.5	2.5	2.5	2.5	10.0
Other Operating Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating Expenses	36.5	8.3	8.5	7.3	11.0	35.1	13.5	14.5	14.5	14.5	57.0
Stock-based compensation	1.4	0.3	2.3	0.3	2.0	4.9	2.0	2.0	2.0	2.0	8.0
Operating Income (GAAP)	(2.8)	(6.5)	(7.7)	(6.4)	(10.0)	(29.4)	(12.5)	(13.5)	(13.5)	(13.5)	(53.0)
Operating Income (non-GAAP)	(1.4)	(6.3)	(5.3)	(6.2)	(8.0)	(24.6)	(10.5)	(11.5)	(11.5)	(11.5)	(45.0)
Interest income (expense)	(8.0)	(0.4)	(0.4)	(0.3)	(0.2)	(1.2)	0.0	0.0	0.0	0.0	0.0
FV warrant liability adjustment	(8.0)	(2.2)	(4.4)	0.0	0.0	(6.6)	0.0	0.0	0.0	0.0	0.0
Other income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GAAP Income Before Taxes	(4.4)	(9.1)	(12.5)	(6.7)	(10.2)	(37.3)	(12.5)	(13.5)	(13.5)	(13.5)	(53.0)
non-GAAP Income Before Taxes	(3.0)	(8.8)	(10.1)	(6.4)	(8.2)	(32.4)	(10.5)	(11.5)	(11.5)	(11.5)	(45.0)
Taxes	0.0	0.0	0.0	0.0	0.0	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%	0.0%	0.0%	0.0%	0.0%
Net Income as Reported/GAAP	(4.4)	(34.6)	(21.0)	(6.7)	(10.2)	(37.3)	(12.5)	(13.5)	(13.5)	(13.5)	(53.0)
Net Income as Reported/ non-GAAP	(3.0)	(34.4)	(18.7)	(6.4)	(8.2)	(32.4)	(10.5)	(11.5)	(11.5)	(11.5)	(45.0)
Diluted EPS (non-GAAP)	(\$0.56)	(\$22.40)	(\$0.81)	(\$0.25)	(\$0.28)	(\$1.63)	(\$0.39)	(\$0.43)	(\$0.43)	(\$0.43)	(\$1.68)
Diluted EPS (as reported/GAAP)	(\$0.81)	(\$22.58)	(\$0.91)	(\$0.26)	(\$0.35)	(\$1.88)	(\$0.47)	(\$0.51)	(\$0.50)	(\$0.50)	(\$1.98)
Shares outstanding	5.4	1.5	23.1	25.9	28.9	19.8	26.6	26.7	26.8	26.9	26.8
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Source: Company reports, PJC analyst estimates

Joshua Schimmer: 212-284-9322

Current disclosure information for this company can be found at http://www.piperjaffray.com/researchdisclosures. Proprietary to Piper Jaffray & Co. November 26, 2013

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Brincidofovir Revenue Model	2012A	2013E	2014E	2015E	2016E	2017E	2018E	2019E	2020E
(\$ in millions, except per share amounts)									
Market Model, Brincidofovir									
U.S. stem cell transplants	20,300	20,600	20,900	21,150	21,400	21,650	21,900	22,150	22,400
% allogeneic	40%	40%	40%	40%	40%	40%	40%	40%	40%
U.S. allogeneic STCs	8120	8240	8360	8460	8560	8660	8760	8860	8960
% adult	75%	75%	<i>75%</i>	<i>75%</i>	<i>75%</i>	74%	74%	73%	73%
U.S. adult allogeneic STCs	6090	6180	6270	6345	6420	6408	6482	6468	6541
% at risk for CMV reactivation	70%	70%	70%	70%	70%	70%	70%	70%	70%
U.S. adult high CMV risk allogeneic STCs	4263	4326	4389	4442	4494	4486	4538	4527	4579
Brincidofovir penetration	0%	0%	0%	0%	15%	30%	45%	55%	<i>5</i> 5%
U.S. Brincidofovir patients, adult allogeneic SCT	0	0	0	0	674	1346	2042	2490	2518
Price/regimen	\$40	\$40	\$40	\$40	\$41	\$42	\$43	\$45	\$47
Revenue, adult allogeneic SCT, U.S.	\$0	\$0	\$0	\$0	\$28	\$56	\$88	\$112	\$118
Pediatric allogeneic SCT, U.S.	2030	2060	2090	2115	2140	2252	2278	2392	2419
Brincidofovir penetration	0%	0%	0%	0%	15%	25%	35%	45%	55%
U.S. patients, pede allogeneic SCT	0	0	0	0	321	563	797	1076	1331
Revenue, Pede allogeneic SCT, U.S.	\$0	\$0	\$0	\$0	\$13	\$23	\$35	\$48	\$62
Other dsDNA prophylaxis/treatment settings	\$0	\$0	\$0	\$0	\$0	\$10	\$20	\$40	\$60
U.S. Brincidofovir Revenue	\$0	\$0	\$0	\$0	\$41	\$89	\$143	\$201	\$240
Ex-U.S. Brincidofovir Revenue	\$0	\$0	\$0	\$0	\$35	\$70	\$140	\$180	\$220

Source: PJC analyst estimates

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Chimerix P&L	2012A	2013E	2014E	2015E	2016E	2017E	2018E	2019E	2020E
Total Product Revenue	0.0	0.0	0.0	0.0	75.6	159.4	282.9	380.5	460.2
Collaboration/license/royalty revenue	17.4	1.2	0.0	0.0	0.0	10.0	5.0	5.0	5.0
Contract/grant revenue	16.3	4.5	4.0	5.0	5.0	8.0	8.0	5.0	5.0
Total Revenue	\$33.7	\$5.7	\$4.0	\$5.0	80.6	177.4	295.9	390.5	470.2
Operating Expenses:									
COGS	0.0	0.0	0.0	0.0	7.6	15.9	28.3	38.1	46.0
R&D	27.8	26.1	47.0	45.0	70.0	90.0	95.0	100.0	105.0
SG&A	8.7	9.0	10.0	17.0	85.0	120.0	130.0	140.0	150.0
Other Operating Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating Expenses	36.5	35.1	57.0	62.0	162.6	225.9	253.3	278.1	301.0
Stock-based compensation	1.4	4.9	8.0	10.0	12.0	13.0	14.0	15.0	16.0
Operating Income (GAAP)	(2.8)	(29.4)	(53.0)	(57.0)	(82.0)	(48.5)	42.6	112.5	169.2
Operating Income (non-GAAP)	(1.4)	(24.6)	(45.0)	(47.0)	(70.0)	(35.5)	56.6	127.5	185.2
Interest income (expense)	(0.8)	(1.2)	0.0	0.5	(1.0)	0.0	1.0	3.0	6.0
FV warrant liability adjustment	(0.8)	(6.6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GAAP Income Before Taxes	(4.4)	(37.3)	(53.0)	(56.5)	(83.0)	(48.5)	43.6	115.5	175.2
non-GAAP Income Before Taxes	(3.0)	(32.4)	(45.0)	(46.5)	(71.0)	(35.5)	57.6	130.5	191.2
Taxes	0.0	0.0	0.0	0.0	0.0	0.0	14.4	38.1	57.8
Tax rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.0%	33.0%	33.0%
Net Income as Reported/GAAP	(4.4)	(37.3)	(53.0)	(56.5)	(83.0)	(48.5)	29.2	77.4	117.4
Net Income as Reported/ non-GAAP	(3.0)	(32.4)	(45.0)	(46.5)	(71.0)	(35.5)	43.2	92.4	133.4
Diluted EPS (non-GAAP)	(\$0.56)	(\$1.63)	(\$1.68)	(\$1.36)	(\$2.01)	(\$0.93)	\$1.05	\$2.19	\$3.08
Y/Y	N/M	N/M	N/M	N/M	N/M	N/M	N/M	108.7%	41.0%
Diluted EPS (as reported/GAAP)	(\$0.81)	(\$1.88)	(\$1.98)	(\$1.65)	(\$2.35)	(\$1.27)	\$0.71	\$1.83	\$2.71
Shares outstanding	5.4	19.8	26.8	34.3	35.3	38.3	41.3	42.3	43.3

Source: Company reports, PJC analyst estimates

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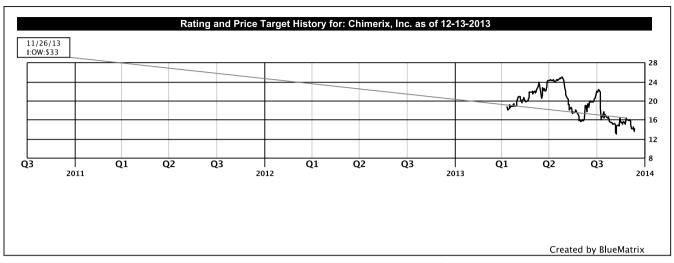
Chimerix Cash Flow Statement	2012A	2013E	2014E	2015E	2016E	2017E	2018E	2019E	2020E
Cash Flows from Operating Activities:									
Net income	(4)	(37)	(53)	(57)	(83)	(49)	29	77	117
Depreciation	0	0	0	1	1	1	1	1	2
Use of NOLs	0	0	0	0	0	0	15	39	0
Non-cash interest expense	0	0	0	1	0	0	0	0	0
Amortization/accretion of invest.	0	0	0	0	0	0	0	0	0
Share-based comp	1	5	8	10	12	13	14	15	16
Deferred lease obligation	0	0	0	0	0	0	0	0	0
FV measure of warrant liability	1	7	0	0	0	0	0	0	0
Change in NWC	(0)	(1)	0	(10)	(15)	5	10	0	0
Net Cash Provided by Operating Activities	(2)	(26.2)	(45.0)	(55.3)	(85.2)	(29.6)	69.3	132.5	135.4
Cash Flows from Investing Activities:									
PP&E	(0)	(0)	0	(1)	(2)	(2)	(2)	(2)	(2)
Other	0	0	0	0	0	0	0	0	0
Free Cash Flow	(2)	(26)	(45)	(56)	(87)	(32)	67	130	133
Cash Flows from Financing Activities:									
Issuance preferred stock/warrants	0	0	0	0	0	0	0	0	0
Exercise of options	0	0	0	0	0	0	0	0	0
Loan payable proceeds/repayment	12	(5)	0	(5)	(8)	0	0	0	0
Debt discount	(0)	0	0	0	0	0	0	0	0
Stock offering/financing costs	(0)	148	0	150	0	50	0	0	0
Net Cash Used in Financing Activities	12	143	0	145	(8)	50	0	0	0
Cash/equivalents	30	140	95	184	89	107	175	305	439
Debt		12	12	12	12				

Source: Company reports, PJC analyst estimates

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IMPORTANT RESEARCH DISCLOSURES



Notes: The boxes on the Rating and Price Target History chart above indicate the date of the Research Note, the rating, and the price target. Each box represents a date on which an analyst made a change to a rating or price target, except for the first box, which may only represent the first Note written during the past three years.

Legend:

I: Initiating Coverage

R: Resuming Coverage

T: Transferring Coverage

D: Discontinuing Coverage

S: Suspending Coverage

OW: Overweight

N: Neutral

UW: Underweight NA: Not Available UR: Under Review

	Distribution of Ratings/IB Ser Piper Jaffray	vices				
Rating	Count	Percent	Count	Percent		
BUY [OW]	347	58.32	74	21.33		
HOLD [N]	225	37.82	16	7.11		
SELL [UW]	23	3.87	1	4.35		

Note: Distribution of Ratings/IB Services shows the number of companies currently in each rating category from which Piper Jaffray and its affiliates received compensation for investment banking services within the past 12 months. FINRA rules require disclosure of which ratings most closely correspond with "buy," "hold," and "sell" recommendations. Piper Jaffray ratings are not the equivalent of buy, hold or sell, but instead represent recommended relative weightings. Nevertheless, Overweight corresponds most closely with buy, Neutral with hold and Underweight with sell. See Stock Rating definitions below.

Analyst Certification — Joshua E. Schimmer, MD, Sr Research Analyst

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- Neutral (N): Anticipated to perform in line relative to the median of the group of stocks covered by the analyst.
- Underweight (UW): Anticipated to underperform relative to the median of the group of stocks covered by the analyst.

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