J.P.Morgan

Intrexon

1Q14 Model Update

We are updating our XON financial model following last week's press release of 1Q14 results and filing of the 10-Q. We continue to model modestly increasing ECC signings throughout the year across healthcare (particularly, in oncology and CNS) and are encouraged by the company's recent energy collaboration announcement. That said, the sequential ramp in revenue has been slower than our initial forecast. We continue to expect a quarterly operating expense run-rate of \$18-20M to be more than offset by cost recovery and upfront payment revenues by year-end.

As a result of updating our model and DCF, we decrease our December 2014 price target to \$28 to account for the slower ramp in revenue relative to our prior estimates. For more details on our XON investment thesis, please see our initiation note.

Overweight

XON, XON US Price: \$15.74

Price Target: \$28.00
Previous: \$32.00

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J.P. Morgan Securities LLC



Intrexon Corporation (XON:XON US)

FYE Dec	2012A	2013A	2014E	2014E	2015E	2015E
			(Prev)	(Curr)	(Prev)	(Curr)
Revenue (\$ mn)						
Q1 (Mar)	2	4	14	8A	20	10
Q2 (Jun)	3	7	15	8	22	12
Q3 (Sep)	3	6	16	8	25	13
Q4 (Dec)	7	7	23	10	33	19
FY	14	24	67	34	100	54
Source: Company data, BI	oomberg, J.P. Mor	gan estimate	es.			

Company Data	
Price (\$)	15.74
Date Of Price	12 May 14
52-week Range (\$)	38.50-13.13
Market Cap (\$ mn)	1,563.59
Fiscal Year End	Dec
Shares O/S (mn)	99
Price Target (\$)	28.00
Price Target End Date	31-Dec-14

See page 6 for analyst certification and important disclosures.

J.P. Morgan does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Investments Thesis, Valuation, and Risks

Investment Thesis

Intrexon is a first mover and leader in the rapidly emerging field of synthetic biology, leveraging its expertise to target high-potential verticals within a diverse set of end-markets, including healthcare, food, energy and environmental science. The company has a unique and highly scalable ECC (exclusive channel collaboration) business model that should generate significant operating leverage over time. Moreover, we believe XON is led by a best-in-class management team with a proven track record of building and commercializing R&D-driven companies, including New River Pharmaceuticals (sold to Shire for \$2.6B) and Clinical Data (sold to Forest Labs for \$1.2B).

Valuation

Our December 2014 price target of \$28 and is derived from a 10-year discounted cash flow analysis, with a CAPM-derived WACC discount rate of 13.5% and terminal growth of 1.5%.

Risks to Rating and Price Target

Downside risks to our rating, estimates, and price target include: (1) limited near-term revenue visibility due to partnership driven business model; (2) equity stakes in lieu of cash payments from ECC partners provide future optionality but also the risk of impairment; (3) regulatory risk associated with current and future collaborations given exposure to healthcare, food and environmental science end markets.

Figure 1: XON Model

Figure 1: XON Model														
Income Statement			1QA	2QA	3QA	4QA		1QA	2QE	3QE	4QE			CAGR
(in millions, except pershare amounts)	2011A	2012A	Mar	Jun	Sep	Dec	2013A	Mar	Jun	Sep	Dec	2014E	2015E	13-18
Total Revenues (GAAP)	8	14	4	7	6	7	24	8	8	8	10	34	54	57%
R&D	70	64	11	14	11	13	48	12	12	12	12	47	49	
G&A	18	25	6	7	7	12	34	14	8	8	8	38	33	
Other operating expenses (incl. AquaBounty)	2	0	0	0	0	0	0	0	1	1	1	3	4	
Operating Profit (Loss) (EBIT) GAAP	(82)	(75)	(14)	(14)	(12)	(18)	(58)	(18)	(13)	(13)	(11)	(54)	(32)	N/A
Reported EBITDA	(82)	(74)	(34)	(5)	17	(10)	(32)	6	(10)	(10)	(8)	(22)	(20)	
Adjusted EBITDA		(60)	(7)	(5)	(5)	(7)	(24)	18	(4)	(3)	1	11	18	
Pretax income (loss) GAAP	(85)	(82)	(36)	(7)	15	(13)	(41)	4	(11)	(12)	(10)	(30)	(28)	N/A
Income tax	0	0	0	0	0	0	0	0	0	0	0	0	(11)	
Net Income (loss) GAAP	(85)	(82)	(36)	(7)	15	(13)	(41)	3	(11)	(12)	(10)	(30)	(17)	
Net income (loss) attributable to minority interest	0	0	(0)	(1)	(0)	(1)	(2)	(1)	0	0	0	(1)	(0)	
Accr. of dividends on redeemable conv.	(14)	(22)	(6)	(8)	(7)	0	(18)	0	0	0	0	0	0	
Net income (loss) attributable to common shareholders	(99)	(104)	(43)	(14)	8	(12)	(57)	4	(11)	(12)	(10)	(29)	(17)	
Diluted Shares Outstanding	9	6	6	6	56	97	41	99	99	100	100	99	100	
GAAP Diluted EPS	(\$10.81)	(\$18.79)	(\$7.54)	(\$2.46)	\$0.15	(\$0.13)	(\$1.40)	\$0.04	(\$0.11)	(\$0.12)	(\$0.10)	(\$0.29)	(\$0.17)	N/A
R&D Margin (as % of total revenue)	861%	461%	294%	201%	175%	176%	'	154%	150%	145%	120%	141%	91%	
SG&A Margin	224%	179%	167%	110%	121%	172%	141%	174%	100%	100%	80%	111%	61%	
Operating (EBIT) Margin GAAP	-1009%	-540%	-361%	-210%	-196%	-248%		-228%	-163%	-157%	-110%	-161%	-59%	
Effective Tax Rate	0%	0%	0%	0%	0%	0%	0%	9%	0%	0%	0%	-1%	38%	
Net Margin GAAP	-1213%	-746%	-1100%	-206%	135%	-171%	-241%	52%	-149%	-144%	-99%	-86%	-31%	
Revenue growth y/y		70%	140%	149%	110%	7%	71%	102%	13%	31%	42%	42%	59%	
EPS growth y/y														

Source: J.P. Morgan estimates, Company data.

Figure 2: XON DCF Analysis

Projected FY Ending Dec	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Adj. EBIT (\$M)	(32)	1	5	96	162	270	369	469	550	650	726	800
Tax-affected adj. EBIT (\$M)	(32)	1	3	60	100	167	229	291	341	403	450	496
Free Cash Flow	(30)	12	10	63	105	170	231	292	345	403	452	498
growth y/y			-22%	557%	67%	61%	36%	26%	18%	17%	12%	10%

	Discounted		PV	of Termi	nal Valu	e (\$M) a	t a							Equiv	alent Tei	rminal	
Discount Rate	Cash Flows (\$M)			Perpetua	al Growt	h Rate o	f		Enterp	rise Valu	e (\$M)		EBI	TDA Mult	iple (for	ward 12 n	nos)
	2015-2024		0.5%	1.0%	1.5%	2.0%	2.5%	0.5%	1.0%	1.5%	2.0%	2.5%	0.5%	1.0%	1.5%	2.0%	2.5%
12.5%	1,192		1,532	1,606	1,688	1,777	1,875	2,724	2,799	2,880	2,969	3,067	4.8x	4.9x	5.0x	5.2x	0.0x
13.0%	1,160		1,416	1,482	1,555	1,633	1,719	2,576	2,643	2,715	2,793	2,879	4.5x	4.6x	4.7x	4.9x	0.0x
13.5%	1,129	+	1,312	1,371	1,435	1,505	1,581	2,441	2,500	2,564	2,634	2,710	4.3x	4.4x	4.5x	4.6x	0.0x
14.0%	1,099	•	1,217	1,270	1,327	1,389	1,457	2,316	2,369	2,426	2,488	2,556	4.0x	4.1x	4.2x	4.3x	0.0x
14.5%	1,070		1,130	1,178	1,229	1,285	1,345	2,201	2,248	2,300	2,355	2,415	3.8x	3.9x	4.0x	4.1x	0.0x
	Net Debt (Cash)													Ter	minal Va	lue	
	(\$M)			Equi	ty Value	(\$M)			Equity '	Value pe	r Share			as a % o	f Enterpr	ise Value	!
			0.5%	1.0%	1.5%	2.0%	2.5%	0.5%	1.0%	1.5%	2.0%	2.5%	0.5%	1.0%	1.5%	2.0%	2.5%
	(204)		2,928	3,003	3,084	3,173	3,271	\$29.43	\$30.18	\$31.00	\$31.89	\$32.88	56%	57%	59%	60%	61%
	(204)		2,780	2,847	2,919	2,998	3,084	\$27.95	\$28.61	\$29.34	\$30.13	\$30.99	55%	56%	57%	58%	60%
_	(204)		2,645	2,704	2,768	2,838	2,914	\$26.58	\$27.18	\$27.82	\$28.53	\$29.29	54%	55%	56%	57%	58%
	(204)		2,520	2,573	2,630	2,692	2,760	\$25.33	\$25.86	\$26.44	\$27.06	\$27.74	53%	54%	55%	56%	57%
	(204)		2,405	2,453	2,504	2,559	2,619	\$24.17	\$24.65	\$25.17	\$25.72	\$26.33	51%	52%	53%	55%	56%

Source: J.P. Morgan estimates, Company data.

Intrexon: Summary of Financials

Revenues	Income Statement - Annual	FY13A	FY14E	FY15E	FY16E	Income Statement - Quarterly	1Q14A	2Q14E	3Q14E	4Q14E
Gross profit - - - - Gross profit - - - Gross profit - - - Gross profit - </td <td>Revenues</td> <td>24</td> <td>34</td> <td>54</td> <td>-</td> <td>Revenues</td> <td>8A</td> <td>8</td> <td>8</td> <td>10</td>	Revenues	24	34	54	-	Revenues	8A	8	8	10
SG&A (34) (38) (33) - SG&A' (14) A (8) (9) (0) Chordination (1)	Cost of products sold	-	-	-	-	Cost of products sold	-	-	-	-
R&D (41) (37) 3.7 - R&D (10) 9(9) (10) (1	Gross profit	-	-	-	-	Gross profit	-	-	-	-
R&D (41) (37) 3.7 - R&D (10)A (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9) (10)	SG&A	(34)	(38)	(33)	-	SG&A	(14)A	(8)	(8)	(8)
EBITDA	R&D	(41)	(37)	(37)	-	R&D	(10)A	(9)	(9)	(9)
Net interest (income) / expense	Operating income	(58)	(54)	(32)	-	Operating income	(18)A	(13)	(13)	(11)
Other income / (expense) 18 25 4 - Other income / (expense) 22A 1 1 1 Income baxes 0 0 0 11 - Income laxes (0)A 0 <td>EBITDA</td> <td>(51)</td> <td>(44)</td> <td>(20)</td> <td>-</td> <td>EBITDA</td> <td>(16)A</td> <td>(10)</td> <td>(10)</td> <td>(8)</td>	EBITDA	(51)	(44)	(20)	-	EBITDA	(16)A	(10)	(10)	(8)
Income taxes	Net interest (income) / expense	-	-	-	-	Net interest (income) / expense	-	-	-	-
Net income 139 17 17 17 18 Net income 26A 11 11 12 10	Other income / (expense)	18	25	4	-	Other income / (expense)	22A	1	1	1
Diluted shares outstanding 1	Income taxes	0	(0)	11	-	Income taxes	(0)A	0	0	0
Diluted EPS (1.40) (0.29) (0.17) - Diluted EPS 0.04A (0.11) (0.12) (0.10)	Net income	(39)	(7)	(17)	-	Net income	26A	(11)	(12)	(10)
Relance Sheet and Cash Flow Data FY13A FY14E FY15E FY16E Ratio Analysis FY13A FY14E FY15E FY16E FY15E FY16E Ratio Analysis FY13A FY14E FY15E FY16E Ratio Analysis FY13A FY14E FY15E FY16E FY16E Ratio Analysis FY13A FY14E FY15E FY16E FY1	Diluted shares outstanding	41	99	100	-	Diluted shares outstanding	99A	99	100	100
Cash and cash equivalents	Diluted EPS	(1.40)	(0.29)	(0.17)	-	Diluted EPS	0.04A	(0.11)	(0.12)	(0.10)
Accounts receivable	Balance Sheet and Cash Flow Data	FY13A	FY14E	FY15E	FY16E	Ratio Analysis	FY13A	FY14E	FY15E	FY16E
Inventories EPS growth (95.3%) (92.9%) 151.8% - Other current assets 3 3 3 3 3 -	Cash and cash equivalents	50	93	91	-	Sales growth	70.6%	42.1%	59.4%	-
Other current assets 3 3 3 3 - Gross margin - <t< td=""><td>Accounts receivable</td><td>7</td><td>4</td><td>8</td><td>-</td><td></td><td>(22.9%)</td><td>(6.4%)</td><td>(41.3%)</td><td>-</td></t<>	Accounts receivable	7	4	8	-		(22.9%)	(6.4%)	(41.3%)	-
Current assets 188 213 215 - Gross margin	Inventories	-	-	-	-	EPS growth	(95.3%)	(92.9%)	151.8%	-
PP&E	Other current assets	3	3	3	-					
Total assets 469 520 517 - EBITDA margin (136.2%) (63.9%) (36.3%) - Tax rate 0.0% (1.0%) (38.0%) - Total debt 2 2 2 2 - Net margin (163.5%) (19.7%) (31.3%) - Total liabilities 88 119 131 - Shareholders' equity 381 401 387 - Net Debt / EBITDA 147.9% 424.1% 458.3% - Net Debt / Capital (book) (14.4%) (29.6%) (30.1%) - Net income (including charges) (41) (30) (17) - D&A 7 10 12 - Return on assets (ROA) (12.5%) (1.3%) (3.2%) - Change in working capital (8) 27 0 - Return on equity (ROE) (16.7%) (1.7%) (4.3%) - Other (12) (13) 5 - Cash flow from operations (54) (6) (0) - Enterprise value / sales 0.0 0.0 0.0 0.0 - Enterprise value / EBITDA 0.0 0.0 0.0 - Capex (2) (4) (2) - Free cash flow from investing activities (224) 24 (2) - Cash flow from investing activities 316 25 0 - Dividends	Current assets	188	213	215	-	Gross margin	-	-	-	-
Tax rate 10.0% 1.0% 38.0% -	PP&E	17	21	24	-	EBIT margin	(166.3%)	(94.6%)	(59.1%)	-
Total debt	Total assets	469	520	517	-	EBITDA margin	(136.2%)	(63.9%)	(36.3%)	-
Total liabilities						Tax rate	0.0%	(1.0%)	(38.0%)	-
Shareholders' equity 381 401 387 Net Debt / EBITDA 147.9% 424.1% 458.3% - Net Debt / Capital (book) (14.4%) (29.6%) (30.1%) - Net income (including charges) (41) (30) (17) -	Total debt	2	2		-	Net margin	(163.5%)	(19.7%)	(31.3%)	-
Net Debt / Capital (book) (14.4%) (29.6%) (30.1%) -	Total liabilities	88	119	131	-					
Net income (including charges) (41) (30) (17) - D&A 7 10 12 - Return on assets (ROA) (12.5%) (1.3%) (3.2%) - Change in working capital (8) 27 0 - Return on equity (ROE) (16.7%) (1.7%) (4.3%) - Other (12) (13) 5 - - Enterprise value / sales 0.0 0.0 0.0 0.0 - Capex (2) (4) (2) - Free cash flow yield (8.6%) (0.7%) (0.1%) - Free cash flow from investing activities (224) 24 (2) - <	Shareholders' equity	381	401	387	-	Net Debt / EBITDA	147.9%	424.1%		-
D&A 7 10 12 - Return on assets (ROA) (12.5%) (1.3%) (3.2%) - Change in working capital (8) 27 0 - Return on equity (ROE) (16.7%) (1.7%) (4.3%) - Other (12) (13) 5 - Cash flow from operations (54) (6) (0) - Enterprise value / sales 0.0 0.0 0.0 0.0 - Enterprise value / EBITDA 0.0 0.0 0.0 - Capex (2) (4) (2) - Free cash flow from investing activities (224) 24 (2) - Cash flow from financing activities 316 25 0 - Dividends						Net Debt / Capital (book)	(14.4%)	(29.6%)	(30.1%)	-
Change in working capital (8) 27 0 - Return on equity (ROE) (16.7%) (1.7%) (4.3%) - Other (12) (13) 5 - Cash flow from operations (54) (6) (0) - Enterprise value / sales 0.0 0.0 0.0 0.0 - Enterprise value / EBITDA 0.0 0.0 0.0 0.0 - Capex (2) (4) (2) - Free cash flow yield (8.6%) (0.7%) (0.1%) - Free cash flow from investing activities (224) 24 (2) - Cash flow from financing activities 316 25 0 - Dividends	Net income (including charges)	(41)	(30)	(17)	-					
Other (12) (13) 5 - Cash flow from operations (54) (6) (0) - Enterprise value / sales 0.0 0.0 0.0 0.0 - Capex (2) (4) (2) - Free cash flow yield (8.6%) (0.7%) (0.1%) - Free cash flow from investing activities (224) 24 (2) -	D&A	7	10	12	-	Return on assets (ROA)	(12.5%)	(1.3%)	(3.2%)	-
Cash flow from operations (54) (6) (0) - Enterprise value / sales 0.0 0.0 0.0 0.0 - Enterprise value / EBITDA 0.0 0.0 0.0 0.0 - Capex (2) (4) (2) - Free cash flow yield (8.6%) (0.7%) (0.1%) - Free cash flow from investing activities (224) 24 (2) - Cash flow from financing activities 316 25 0 - Dividends	Change in working capital	(8)	27	0	-	Return on equity (ROE)	(16.7%)	(1.7%)	(4.3%)	-
Enterprise value / EBITDA 0.0	Other	(12)	(13)	5	-					
Capex (2) (4) (2) - Free cash flow yield (8.6%) (0.7%) (0.1%) - Free cash flow (55) (10) (2) - Cash flow from investing activities (224) 24 (2) - Cash flow from financing activities 316 25 0 - Dividends - - - -	Cash flow from operations	(54)	(6)	(0)	-	Enterprise value / sales	0.0	0.0	0.0	-
Free cash flow (55) (10) (2) - Cash flow from investing activities (224) 24 (2) - Cash flow from financing activities 316 25 0 - Dividends - - - -						Enterprise value / EBITDA	0.0	0.0	0.0	-
Cash flow from investing activities (224) 24 (2) - Cash flow from financing activities 316 25 0 - Dividends	Capex	(2)	(4)	(2)	-	Free cash flow yield	(8.6%)	(0.7%)	(0.1%)	-
Cash flow from investing activities (224) 24 (2) - Cash flow from financing activities 316 25 0 - Dividends	Free cash flow	(55)	(10)	(2)	-					
Cash flow from financing activities 316 25 0 - Dividends	Cash flow from investing activities	(224)	24		-					
	Cash flow from financing activities	316	25		-					
Dividend yield	Dividends	-	-	-	-					
Dividentia yield	Dividend yield		-							

Source: Company reports and J.P. Morgan estimates.

Note: \$ in millions (except per-share data). Fiscal year ends Dec

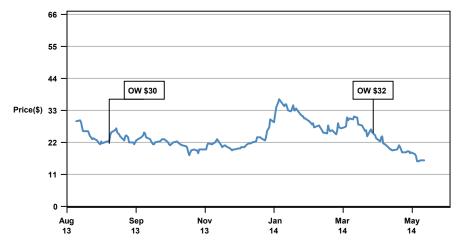
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Intrexon (XON, XON US) Price Chart



Date	Rating	Share Price (\$)	Price Target (\$)
03-Sep-13	OW	21.73	30.00
01-Apr-14	OW	25.54	32.00

Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends. Initiated coverage Sep 03, 2013.

The chart(s) show J.P. Morgan's continuing coverage of the stocks; the current analysts may or may not have covered it over the entire period.

J.P. Morgan ratings or designations: OW = Overweight, N= Neutral, UW = Underweight, NR = Not Rated

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	(buy)	(hold)	(sell)
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North America Equity Research 12 May 2014

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