J.P.Morgan

Intrexon

2Q13 Model Update

We are updating our financial model following yesterday's press release of Intrexon's 2Q13 results. For more details on our investment thesis, please see our recent initiation <u>note</u>.

Overweight

XON, XON US Price: \$22.15

Price Target: \$30.00

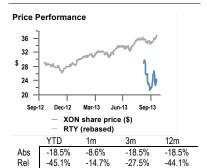
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Intrexon Corporation (XON;XON US)

FYE Dec	2011A	2012A	2013E	2013E	2014E	2014E	2015E	2015E		
			(Prev)	(Curr)	(Prev)	(Curr)	(Prev)	(Curr)		
Revenue (\$ mn)										
Q1 (Mar)	2	2	4A	4A	38	20	40	31		
Q2 (Jun)	2	3	22A	7A	46	25	46	34		
Q3 (Sep)	4	3	31	13	50	26	51	39		
Q4 (Dec)	1	7	54	23	76	40	70	57		
FY	8	14	111	47	210	111	207	161		
Source: Company data, Bloomberg, J.P. Morgan estimates.										

Company Data	
Price (\$)	22.15
Date Of Price	20-Sep-13
52-week Range (\$)	31.44-16.00
Market Cap (\$ mn)	1,993.50
Fiscal Year End	Dec
Shares O/S (mn)	90
Price Target (\$)	30.00
Price Target End Date	31-Dec-14

See page 6 for analyst certification and important disclosures.

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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 \$30 is derived from a 10-year discounted cash flow analysis, with a CAPM-derived WACC discount rate of 13% 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

Income Statement	2011A	1QA	2QA	3QA	4QA	2012A	1QA	2QA	3QE	4QE	2013E	2014E	2015E	2016E	2017E	2018E	CAGR
(in millions, except per share amounts)		Mar	Jun	Sep	Dec		Mar	Jun	Sep	Dec							13-18
ECC Operating Revenue	5	2	3	3	7	14	4	7	13	23	46	111	158	197	264	345	
AquaBounty	0	0	0	0	0	0	0	0	0	0	0	1	3	13	31	50	
Other Revenues	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Revenues	8	2	3	3	7	14	4	7	13	23	47	111	161	210	294	395	53%
R&D	70	19	18	14	13	64	12	14	5	7	37	33	40	52	60	40	
G&A	18	8	6	5	6	25	6	7	4	5	22	22	24	25	24	23	
Other operating expenses (incl. AquaBounty)	2	0	0	0	0	0	0	0	2	2	4	6	9	16	32	40	
Operating Profit (Loss) (EBIT)	(82)	(25)	(21)	(16)	(12)	(75)	(14)	(14)	2	9	(16)	50	88	117	178	292	N/A
EBITDA	(82)	(12)	(14)	(18)	(29)	(74)	(34)	(5)	5	12	(8)	60	98	127	188	302	
Pretax income (loss)	(85)	(14)	(17)	(20)	(31)	(82)	(36)	(7)	3	11	(29)	56	95	125	189	306	N/A
Income tax	0	0	0	0	0	0	0	0	0	0	0	0	36	48	72	116	
Net Income (loss)	(85)	(14)	(17)	(20)	(31)	(82)	(36)	(7)	3	11	(29)	56	59	78	117	190	
Net income (loss) attributable to minority interest	0	0	0	0	0	0	(0)	(1)	0	0	(1)	(1)	(2)	0	1	3	
Accr. of dividends on redeemable conv.	(14)	(5)	(6)	(6)	(6)	(22)	(6)	(8)	0	0	(14)	0	0	0	0	0	
Net income (loss) attributable to common shareholders	(99)	(19)	(22)	(26)	(36)	(104)	(43)	(14)	3	11	(43)	56	61	78	116	187	
Diluted Shares Outstanding	9	10	10	10	10	10	10	6	97	97	52	97	97	98	98	99	
GAAP Diluted EPS	(\$10.81)	(\$2.03)	(\$2.30)	(\$2.68)	(\$3.72)	(\$10.73)	(\$4.31)	(\$2.46)	\$0.03	\$0.11	(\$0.82)	\$0.58	\$0.62	\$0.79	\$1.18	\$1.89	N/A
R&D Margin (as % of total revenue)	861%	1173%	647%	491%	198%	461%	289%	201%	40%	30%		30%	25%	25%	20%	10%	
SG&A Margin	224%	480%	232%	173%	87%	179%	163%	110%	30%	20%	48%	20%	15%	12%	8%	6%	
Operating (EBIT) Margin	-1009%	-1553%	-779%	-564%	-185%	-540%	-352%	-210%	19%	41%	-35%	45%	54%	56%	61%	74%	
Effective Tax Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	38%		38%	38%	
Net Margin	-1213%	-1197%	-809%	-889%	-548%	-746%	-1074%	-206%	24%	47%	-92%	51%	37%	37%	39%	47%	
Revenue growth y/y		-2%	34%	-18%	611%	70%	146%	149%	350%	242%	235%	139%	45%	30%	40%	34%	
EPS growth y/y		176%	-24%	-35%	27%	-1%	113%	7%	-101%	-103%	-92%	-171%	7%	28%	49%	60%	

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
Revenue (\$M)	47	111	161	210	294	395	507	616	698	817	905	991
growth y/y	•	139%	45%	30%	40%	34%	28%	21%	13%	17%	11%	10%
EBIT (\$M)	(16)	50	88	117	178	292	384	469	549	648	722	794
EBIT margin	-35%	45%	54%	56%	61%	74%	76%	76%	79%	79%	80%	80%
Tax-affected EBIT (\$M)	(16)	50	54	72	110	181	238	291	341	402	448	492
Free Cash Flow	(19)	51	56	75	109	178	234	288	340	397	446	491
growth y/y			10%	35%	45%	63%	31%	23%	18%	17%	12%	10%

	Discounted		PV	of Termi	nal Valu	e (\$M) a	t a							Equiv	alent Te	rminal	
Discount Rate	Cash Flows (\$M)			Perpetu	al Growt	h Rate o	f		Enterp	rise Valu	ie (\$M)		EBI	TDA Mult	tiple (for	ward 12 r	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%
11.9%	1,028		1,664	1,749	1,842	1,945	2,058	2,692	2,777	2,870	2,972	3,086	3.3x	3.5x	3.6x	3.7x	3.8x
12.4%	999		1,535	1,610	1,692	1,783	1,882	2,534	2,610	2,692	2,782	2,881	3.2x	3.2x	3.3x	3.5x	3.6x
12.9%	972	+	1,419	1,485	1,558	1,638	1,725	2,391	2,458	2,531	2,610	2,697	3.0x	3.1x	3.1x	3.2x	3.4x
13.4%	946		1,313	1,373	1,438	1,508	1,585	2,260	2,319	2,384	2,455	2,531	2.8x	2.9x	3.0x	3.1x	3.1x
13.9%	921		1,218	1,271	1,329	1,392	1,460	2,139	2,192	2,250	2,313	2,381	2.7x	2.7x	2.8x	2.9x	3.0x
	Net Debt (Cash)													Ter	minal Va	alue	
	(\$M)			Equi	ity Value	(\$M)			Equity '	Value pe	r Share			as a % o	f Enterpr	ise Value	<u> </u>
			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%
	(336)		3,027	3,112	3,205	3,308	3,422	\$31.19	\$32.07	\$33.03	\$34.09	\$35.26	62%	63%	64%	65%	67%
	(336)		2,870	2,945	3,028	3,118	3,217	\$29.57	\$30.35	\$31.20	\$32.12	\$33.15	61%	62%	63%	64%	65%
_	(336)	=	2,727	2,794	2,866	2,946	3,033	\$28.10	\$28.79	\$29.54	\$30.35	\$31.25	59%	60%	62%	63%	64%
	(336)		2,595	2,655	2,720	2,790	2,867	 \$26.74	\$27.36	\$28.02	\$28.75	\$29.54	58%	59%	60%	61%	63%
	(336)		2,475	2,528	2,586	2,649	2,717	\$25.50	\$26.05	\$26.65	\$27.29	\$27.99	57%	58%	59%	60%	61%

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

Intrexon: Summary of Financials

Income Statement - Annual	FY12A	FY13E	FY14E	FY15E	Income Statement - Quarterly	1Q13A	2Q13A	3Q13E	4Q13E
Revenues	14	47	111	161	Revenues	4A	7A	13	23
Cost of products sold	-	-	-	-	Cost of products sold	-	-	-	-
Gross profit	-	-	-	-	Gross profit	-	-	-	-
SG&A	(25)	(22)	(22)	(24)	SG&A	(6)A	(7)A	(4)	(5)
R&D	(56)	(29)	(23)	(30)	R&D	(10)A	(12)A	(3)	(4)
Operating income	(75)	(16)	50	88	Operating income	(14)A	(14)A	2	9
EBITDA	(67)	(8)	60	98	EBITDA	(12)A	(12)A	5	12
Net interest (income) / expense	-	-	-	-	Net interest (income) / expense	-	-	-	-
Other income / (expense)	(6)	(12)	6	7	Other income / (expense)	(22)A	8A	1	1
Income taxes	0	0	0	(36)	Income taxes	0A	0A	0	0
Net income	(111)	(43)	56	61	Net income	(65)A	(6)A	3	11
Diluted shares outstanding	10	52	97	97	Diluted shares outstanding	10A	6A	97	97
Diluted EPS	(10.73)	(0.82)	0.58	0.62	Diluted EPS	(4.31)A	(2.46)A	0.03	0.11
Balance Sheet and Cash Flow Data	FY12A	FY13E	FY14E	FY15E	Ratio Analysis	FY12A	FY13E	FY14E	FY15E
Cash and cash equivalents	10	180	243	309	Sales growth	70.4%	235.2%	138.6%	44.9%
Accounts receivable	1	10	18	25	EBIT growth	(8.8%)	(78.1%)	(402.4%)	76.8%
Inventories	-	-	-	-	EPS growth	2.8%	(92.8%)	(170.8%)	6.9%
Other current assets	2	3	3	3					
Current assets	14	288	359	433	Gross margin	-	-	-	-
PP&E	19	20	24	26	EBIT margin	(587.6%)	(35.2%)	44.6%	54.4%
Total assets	152	436	505	577	EBITDA margin	(530.2%)	(16.7%)	53.6%	60.7%
					Tax rate	0.0%	0.0%	0.0%	38.0%
Total debt	0	2	2	2	Net margin	(793.7%)	(91.8%)	50.6%	37.5%
Total liabilities	67	82	92	100					
Shareholders' equity	85	354	413	477	Net Debt / EBITDA	14.1%	2276.8%	(402.2%)	(313.4%)
					Net Debt / Capital (book)	(13.9%)	(100.1%)	(138.9%)	(181.2%)
Net income (including charges)	(82)	(29)	56	59					
D&A	8	9	10	10	Return on assets (ROA)	(83.0%)	(14.6%)	12.0%	11.2%
Change in working capital	6	(13)	(5)	(5)	Return on equity (ROE)	(133.5%)	(19.5%)	14.7%	13.6%
Other	6	18	4	4					
Cash flow from operations	(62)	(15)	65	69	Enterprise value / sales	0.0	0.0	0.0	0.0
·	, ,	,			Enterprise value / EBITDA	0.0	0.0	0.0	0.0
Capex	(7)	(2)	(2)	(2)	Free cash flow yield	(32.2%)	(1.4%)	2.9%	3.1%
Free cash flow	(69)	(17)	63	67		, ,	. ,		
Cash flow from investing activities	(24)	(96)	(2)	(2)					
Cash flow from financing activities	`76	280	Ò	`ó					
Dividends	-	-	-	-					
Dividend yield	-	-	-	-					

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

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

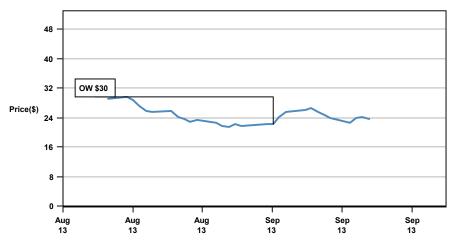
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Intrexon (XON, XON US) Price Chart



Date	Rating	Share Price (\$)	Price Target (\$)
03-Sep-13	OW	22.31	30.00

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

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IB clients*	76%	66%	55%

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