

# Intrexon Corp.

# Two New ECC Agreements

**What's New:** XON announced two collaboration agreements with Sun Pharma and Oragenics.

**Three new ECC agreements signed since IPO.** Since the IPO of XON in August, the company has signed 3 new Exclusive Channel Collaborations (ECC). It is likely XON will continue to execute more ECC agreements before the end of 2013; however, we believe the quality of ECC is a more important driver of the stock than the quantity.

**Collaboration with Sun Pharma focuses on eye diseases.** XON and Sun Pharma formed a joint venture to develop gen-based therapies for treatment of ocular diseases. Initial targets include dry age-related macular degeneration (dry AMD), glaucoma and retinitis pigmentosa. The companies intend to expand future collaboration to target wet AMD, macular edema, uveitis and diabetic retinopathy. It was not disclosed if Sun Pharma paid XON a technology access fee.

**Second ECC signed with Oragenics.** The new ECC with Oragenics aims to develop and commercialize genetically modified probiotics for treatment of diseases of the oral cavity, throat, sinus and esophagus with initial focus on Behcet's disease and aphthous stomatitis. This new ECC is the second collaboration between XON and Oragenics after the companies signed an ECC in June 2012 to develop novel class of broad-spectrum antibiotics. Under the terms Oragenics paid XON \$6M of technology access fee in 1.348M shares of Oragenics common stock and a promissory note in the principal amount of \$1.956M. XON also purchased 1.3M shares of Oragenics common stock at \$3 per share for an aggregate price of \$3.9M.

XON: Quarterly and Annual EPS (USD)

	2012 2013			2014			Change y/y		
FY Dec	Actual	Old	New	Cons	Old	New	Cons	2013	2014
Q1	-3.55A	-7.54A	-7.54A	N/A	N/A	N/A	N/A	-112%	N/A
Q2	-3.99A	-2.46A	-2.46A	-2.46A	N/A	N/A	N/A	38%	N/A
Q3	N/A	0.05E	0.05E	0.04E	N/A	N/A	N/A	N/A	N/A
Q4	N/A	0.27E	0.27E	0.19E	N/A	N/A	N/A	N/A	N/A
Year	-18.77A	-0.39E	-0.39E	-0.13E	0.25E	0.25E	0.74E	98%	164%
P/E	N/A		N/A			95.1			

Source: Barclays Research.

Consensus numbers are from Thomson Reuters

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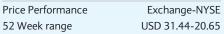
# **Equity Research**

EQUAL WEIGHT Unchanged

Healthcare | U.S. Biotechnology 1 October 2013

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Industry View	NEUTRAL Unchanged
Price Target	USD 25.00 Unchanged
Price (30-Sep-2013)	USD 23.69
Potential Upside/Downside	+6%
Tickers	XON
Market Cap (USD mn)	2298
Shares Outstanding (mn)	96.99
Free Float (%)	36.08
52 Wk Avg Daily Volume (mn)	0.8
Dividend Yield (%)	N/A
Return on Equity TTM (%)	-38.72
Current BVPS (USD)	-66.32
Source: FactSet Fundamentals	

Stock Rating





Link to Barclays Live for interactive charting

# U.S. Biotechnology

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U.S. Biotechnology							Industry View: NEUTRAL
Intrexon Corp. (XON)						Sto	ock Rating: EQUAL WEIGHT
Income statement	2012A	2013E	2014E	2015E	CAGR	Price (30-Sep-2013)	USD 23.69
Revenue (\$k)	13,925	113,933	196,500	231,084	155.1%	Price Target	USD 25.00
EBITDA (adj)	N/A	N/A	N/A	N/A	N/A	Why Equal Weight? While	Intrexon is nicely
EBIT (adj)	N/A	N/A	N/A	N/A	N/A		hetic biology company with
Pre-tax income (adj)	N/A	N/A	N/A	N/A	N/A	a platform business model	
Net income (adj)	N/A	N/A	N/A	N/A	N/A	application of synthetic bio	
EPS (adj) (\$)	-18.77	-0.39	0.25	0.34	N/A	will take time. In our view, portfolio with major player	a more diverse ECC
Diluted shares (k)	5,533.7	56,915.9	114,140.6	119,847.6	178.7%	technology and provide a r	
DPS	N/A	N/A	N/A	N/A	N/A	company.	nore concrete path for the
Margin and return data					Average	Upside case	USD 33.00
EBITDA (adj) margin (%)	N/A	N/A	N/A	N/A	N/A	In our upside case, we assu	
EBIT (adj) margin (%)	N/A	N/A	N/A	N/A	N/A	acceleration in signed ECC	
Pre-tax (adj) margin (%)	N/A	N/A	N/A	N/A	N/A	total ECCs by 2018) as Intr	
Net (adj) margin (%)	N/A	N/A	N/A	N/A	N/A	This leads us to \$33/share	
ROIC (%)	N/A	N/A	N/A	N/A	N/A		
ROA (%)	N/A	N/A	N/A	N/A	N/A	Downside case	USD 17.00
ROE (%)	N/A	N/A	N/A	N/A	N/A	In our downside case, we a	assume no product is
						commercialized from the s	
Balance sheet and cash flow (	\$k)				CAGR	and therefore no back-end	royalties are received, and
Tangible fixed assets	N/A	N/A	N/A	N/A	N/A	arrive at a value of \$17/sha	are.
Intangible fixed assets	N/A	N/A	N/A	N/A	N/A		
Cash and equivalents	10,403	181,247	370,962	469,438	256.0%	Upside/Downside scenari	os
Total assets	151,646	300,888	498,422	602,341	58.4%	Price History	Price Target
Short and long-term debt	N/A	N/A	N/A	N/A	N/A	Prior 12 months	Next 12 months
Other long-term liabilities	1,150	3,418	5,895	6,933	82.0%	High	Upside
Total liabilities	66,540	72,485	216,150	254,192	56.3%		33.00
Net debt/(funds)	N/A	N/A	N/A	N/A	N/A	31.44	
Shareholders' equity	85,106	228,403	282,272	348,149	59.9%		
Change in working capital	9,663	-2,485	826	346	-67.0%	Current	Target
Cash flow from operations	-61,529	36,759	116,827	139,291	N/A	23.69	25.00
Capital expenditure	-7,491	-37,686	-64,997	-76,436	N/A		23.00
Free cash flow	N/A	N/A	N/A	N/A	N/A	20.65	17.00
Valuation and leverage metric	:s				Average		17.00
P/E (adj) (x)	N/A	N/A	95.1	70.3	82.7	Low	Downside
EV/EBITDA (adj) (x)	N/A	N/A	N/A	N/A	N/A		
Equity FCF yield (%)	N/A	N/A	N/A	N/A	N/A		
EV/sales (x)	N/A	N/A	N/A	N/A	N/A		
P/BV (x)	N/A	N/A	N/A	N/A	N/A		
Dividend yield (%)	N/A	N/A	N/A	N/A	N/A		
Total debt/capital (%)	N/A	N/A	N/A	N/A	N/A		
Selected operating metrics					Average		
SG&A/sales (%)	170.0	26.1	16.6	15.5	59.3		
500, (, 50.05 (, 6)	178.8	20.1	10.0	13.3	55.5		
	460.9	46.6	28.4	28.5	141.1		
R&D/sales (%) R&D growth (%)							

Source: Company data, Barclays Research Note: FY End Dec

1 October 2013

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Intrexon Corp. (XON, 30-Sep-2013, USD 23.69), Equal Weight/Neutral, A/C/D/J/L/O

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Idenix Pharmaceuticals (IDIX)	Incyte Corp. (INCY)	Intrexon Corp. (XON)
Medivation Inc. (MDVN)	Onyx Pharmaceuticals (ONXX)	Regeneron Pharmaceuticals (REGN)
Tetraphase (TTPH)	Vertex Pharmaceuticals (VRTX)	

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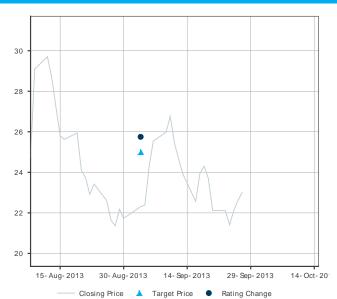
Intrexon Corp. (XON)
USD 23.69 (30-Sep-2013)

Stock Rating **EQUAL WEIGHT** 

Industry View

NEUTRAL





Currency=USDDateClosing PriceRatingPrice Target03-Sep-201322.31Equal Weight25.00

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**Valuation Methodology:** In our net present value (NPV) analysis of Intrexon's cash flows from ECCs during 2014-2018, we arrive at \$25/share assuming a discount rate of 10% and terminal growth rate of 3%.

Risks which May Impede the Achievement of the Barclays Research Price Target: Risks include: (1) Intrexon is a platform company built on ECCs and therefore may fail to maintain existing ECCs or enter into new ECCs, (2) development and commercialization risk: Intrexon relies on their ECCs to develop, commercialize and market products, which may not be successful, and (3) IP risk around their proprietary synthetic biology technologies (expire between 2017-2034). However, products emerging from an ECC are patentable and can likely provide longer runway for IP protection.

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