

Company Update
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BIOTECHNOLOGY

**Equity Research** 

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# **NewLink Genetics Corporation (NLNK-\$11.16)**

**Rating: BUY** 

Target Price: \$15.00

# **Increased Market Opportunities and Visibility - Raising Price Target**

EPS 2010A 2011A 2012E 2013E	1Q (1.02)A (1.07)A (0.59)E	,	,	4Q (1.12)A (0.44)A (0.44)E
REV 2010A 2011A 2012E 2013E	1Q 0.3A 0.6A 0.4E	2Q 0.4A 0.5A 0.3E	3Q 0.4A 0.4A 0.3E	4Q 1.0A 0.4A 0.3E
EY EPS REV	<b>2010A</b> (4.84)A 2.1A	2011A (2.98)A 2.0A	2012E (2.98)E 1.3E	<b>2013E</b> (2.19)E 1.0E

- We recently met with NewLink management and subsequent to our meeting we are raising our price target to \$15 from \$12. The increase is based on growing visibility on the pipeline, including an expanded indication for HyperAcute Pancreas, as the overall market opportunity for the company, in our view, has expanded.
- Visibility for the HyperAcute vaccine program should increase with new indications moving into later stages of clinical testing and an interim look for HyperAcute Pancreas. New indications include resectable locally advanced pancreatic cancer, renal cell carcinoma and NSCLC (Phase IIb/III by the end of this year). The locally advanced pancreatic indication could more than double the potential number of patients eligible for treatment.
- We also believe that DMT-1 (IDO) will gain greater visibility. Until this point, the visibility on this program has been low, but the combination of data at ASCO and clinical trial progress should bring this program into greater focus.
- ASCO could provide incremental support for HyperAcute Pancreas, as we expect two- and three-year survival data from the Phase II program will be presented. While we are cautious to extrapolate potential Phase III results from Phase II, we nonetheless believe that meaningful survival data relative to historical controls will be a positive news generator for this program.
- Milestones are key drivers of valuation expansion for NewLink, and throughout the remainder of this year we expect a stream of news-related events such as initiation of HyperAcute NSCLC Phase IIb/III, Phase II locally advanced pancreatic cancer, renal cell, and other programs involving DMT-1 to be the fuel for such expansion.
- Our new price target is \$15 and is based on a 40x multiple on our 2017 EPS forecast of \$2.86 discounted at 50%. Our rating remains BUY.

#### **Current Statistics**

\$230.6	Float Shares (Mil):	NA
NA	, ,	
\$12.37-\$6.25		
33,295		
20.662		
	NA \$12.37-\$6.25 33,295	NA \$12.37-\$6.25 33,295

# **Company Description**

NewLink Genetics is a development stage company focused on cancer treatments. Founded in 1999, NewLink has two technology platforms, HyperAcute (allogeneic vaccine) and IDO inhibition (oral, small molecule), in various stages of trials. The HyperAcute program is the furthest in development, with the lead candidate, HyperAcute Pancreas, in a Phase III trial for pancreatic cancer. NewLink also has mid-stage trials underway in non small cell lung cancer and melanoma.



# Solid Pipeline with Many Milestones

# **Summary**

NewLink is working in the rapidly developing field of cancer immunotherapy. The company has a novel approach based on a solid scientific foundation and is working in areas of tremendous unmet need. We have identified what we believe to be critical success factors for a cancer immunotherapy company and further believe that NewLink meets these criteria. The company has identified appropriate clinical settings with which to test its technology (modest disease burden, consistent booster dosing), has a robust trial design, is addressing critical unmet medical needs, and has a scalable, financially reasonable manufacturing process and technology. Additionally, the stage and depth of NewLink's clinical program is compelling, in our view, and there are multiple opportunities for milestone updates over the next 24 months.

- Indications and Unmet Medical Needs. Initial clinical programs are focused on pancreatic cancer, lung cancer, and melanoma: three diseases of major unmet medical need. The company has identified patient populations within these groups that are likely to benefit from the HyperAcute immunotherapy program and has designed clinical trials around appropriate patient populations.
- Trial design. NewLink's Phase III trial of HyperAcute Pancreas is a large, randomized Phase III clinical trial consisting of over 700 patients. The company has vetted the trial design with the FDA, and it will be conducted with a Special Protocol Assessment (SPA), mitigating the risk that the Agency takes issue with the trial design or other elements once the trial has been completed.
- Manufacturing. NewLink's HyperAcute technology is an "off the shelf" vaccine. As such, there is no need to harvest patient cells, which is time consuming and expensive. NewLink's HyperAcute therapeutic vaccine has a streamlined manufacturing process with attractive margins.
- Milestones. A key component of valuation building for biotechnology companies is derived from milestone events. NewLink has a full milestone calendar over the next 24 months, and we expect news flow from such events will provide incremental opportunities to build value. Data presentations from the HyperAcute Pancreas program will be presented at a plenary session at Digestive Disease Week (DDW) in May and in a poster at the American Society of Clinical Oncology (ASCO) in June. Additionally, an oral poster session highlighting Phase I IDO data will occur at ASCO, as will poster presentations from the combination Phase I IDO program, HyperAcute Lung, and HyperAcute Pancreas. An enrollment update in the HyperAcute Pancreas trial is also expected shortly, and an interim look could occur in late 4Q:12/early 1Q:13. With new indications advancing into later stages of testing, the potential market opportunities for the HyperAcute program are expanding as well.

# Valuation

Our 12-month price target is \$15 and is based on a discounted present value earnings calculation of EPS of \$2.86 in 2017 and a multiple on those earnings of 40x, discounted by 50%. We have used a multiple on 2017 EPS consistent with valuation for early stage biotechnology companies, which ranges from 30-50x forward EPS, reflecting opportunity for rapid growth. In arriving at this range, we explored historical data as well as forward consensus multiples for companies with newly launched products.



#### Risks

NewLink is a development stage company, and investment is subject to risk. These risks include but are not limited to:

- Development of new drugs carries a high failure rate, either because the drug in question fails to show efficacy or significant safety issues arise during the clinical trial process. Additionally, regulatory authorities such as the FDA (Food & Drug Administration) may delay the approval process or reject NewLink's clinical findings. Because we can never dismiss such a possibility, we use a high discount rate in our valuation model to compensate for such risk. We note that NewLink's HyperAcute Pancreas program is being conducted under an SPA (special protocol assessment), and while it is not a guarantee that the FDA will endorse NewLink's data, it mitigates risk against the FDA disputing the company's clinical trial design.
- Some of NewLink's clinical programs that are being co-sponsored by the NCI are in investigator-initiated clinical trials, which means that the company does not have full control over the conduct of the trials or the release of data and this may impact trial results and/or milestones as it relates to public disclosure of clinical data.
- NewLink's manufacturing process has been validated in its early clinical trial work. However, we
  cannot exclude the possibility that this process may not be seamless from clinical trials to
  commercialization.
- The company has \$6 million in outstanding debt under a forgivable loan agreement with the Iowa Department of Economic Development, of which \$4.7 million may be accelerated and require repayment as early March 18, 2012. Though we expect that the Iowa Department of Economic Development will continue to defer repayment of principal until such time that NewLink is in a cash flow positive position, we cannot exclude the possibility that repayment will be required sooner.
- The clinical landscape is crowded with hundreds of oncology clinical trials. It is possible that
  other technologies show greater benefit to patients than NewLink's product candidates, thus
  tendering products obsolete or non-competitive.
- NewLink has a large intellectual property estate protecting its technology, know-how, and applications of such. However, it is always possible that a party will bring forward infringement claims that would need to be heard by a court.
- NewLink has a history of net losses. We are forecasting profitability for NewLink in 2016 based on market acceptance of HyperAcute Pancreas, but profitability could be delayed or not reached at all, depending on a variety of clinical and regulatory factors.



**Exhibit 1: Annual Income Statement** 

# **NewLink Genetics Corporation**

All figures in millions, Year Ended 31 December	2017E	2016E	2015E	2014E	2013E	2012E	2011A
Revenue	\$391.54	\$270.00	\$28.95	\$0.65	\$1.01	\$1.26	\$1.87
Cost of Goods Sold	101.68	77.69	15.47	0.00	0.00	0.00	0.00
Gross Profit	\$289.86	\$192.31	\$13.48	\$0.65	\$1.01	\$1.26	\$1.87
Gross Profit Margin	74.03%	71.23%	46.55%	NM	NM	NM	NM
Operating Expenses							
SG&A	104.37	72.65	41.18	27.51	18.16	12.65	5.68
R&D	87.63	54.31	42.25	37.74	28.66	23.62	14.26
Total Operating Expenses	\$192.00	\$126.96	\$83.43	\$65.25	\$46.82	\$36.27	\$19.93
Profit (Loss) from Operations	<b>\$97.86</b>	\$65.35	(\$69.95)	(\$64.60)	(\$45.81)	(\$35.01)	(\$18.06)
Operating Profit Margin	NM	NM	NM	NM	NM	NM	NM
Other Income (Expense)	\$2.35	\$1.15	\$0.75	(\$0.03)	(\$0.00)	\$0.07	(\$0.03)
Pretax Income	\$100.21	\$66.50	(\$69.20)	(\$64.63)	(\$45.81)	(\$34.94)	(\$18.09)
Pretax Margin	NM	NM	NM	NM	NM	NM	NM
Net loss attributable to noncontrolling interest	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net Income (Loss)	\$100.21	\$66.50	(\$69.20)	(\$64.63)	(\$45.81)	(\$34.94)	(\$18.09)
Net Margin	NM	NM	NM	NM	NM	NM	NM
Basic & Diluted Net Loss Per Share	\$2.86	\$2.22	(\$2.52)	(\$2.62)	(\$2.07)	(\$2.19)	(\$2.98)
Shares Outstanding	35.00	30.00	27.50	24.65	22.08	15.96	6.07

Percent Change, Year-Over-Year	2016E	2016E	2015E	2014E	2013E	2012E	2011E
Revenue	45.01%	832.61%	4354.09%	-35.64%	-19.84%	-32.69%	-9.96%
SG&A	43.66	76.42	49.69	51.49	43.56	122.75	(6.50)
R&D	61.35	28.54	11.95	31.68	21.34	65.70	12.55
Operating Expenses	51.23	52.18	27.86	39.36	29.09	81.95	6.37
Other Income, net	NM	NM	NM	NM	NM	NM	NM

Source: NewLink Genetics, Cantor Fitzgerald estimates



**Exhibit 2: Pancreatic Cancer Model** 

# **NewLink Genetics Corporation**

(\$ in millions)	2014E	2015E	2016E	2017E	2018E	2019E
Number of diagnoses (US)	45,769	46,341	46,341	46,920	47,507	48,101
% Stage I	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
% treated	0.0%	1.2%	4.8%	7.0%	7.4%	7.5%
# treated	0.00	556	2,224	3,303	3,497	3,617
% Stage II	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%
% treated	0.0%	1.4%	5.9%	8.1%	12.4%	15.9%
# treated	0.00	626	2,753	3,801	5,900	7,662
Total Treated	0.00	1,182	4,977	7,104	9,397	11,280
Average Injections/year/patient	0	7	15.5	15.7	16.1	16.4
Cost of injection	\$0	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Cost per year	\$0	\$24,500	\$54,250	\$55,118	\$56,275	\$57,514
Total sales	\$0.0	\$29.0	\$270.0	\$391.5	\$528.8	\$648.7
Percent Change, year-over-year						
Diagnoses	1.30%	1.30%	1.25%	1.25%	1.25%	1.25%
Stage I - % treated	NA	NA	300.00	48.50	5.85	3.45
Stage II - % treated	NA	NA	340.00	38.07	55.25	29.86
Total treated	NA	NA	321.18	42.73	32.28	20.04
Average Injections/year/patient	NA	NA	NA	1.60	2.10	2.20
Annual cost	NA	NA	NA	0.00	0.00	0.00
Total sales	NA	NA	832.61	45.01	35.06	22.68

Source: NewLink Genetics, American Cancer Society, CMS, Cantor Fitzgerald estimates



Exhibit 3: R&D Pipeline

		Core	Phase of Development				
Product Name	Description/Indication	Technology	PreClinical	Phase I	Phase II	Phase III	Comments
HyperAcute Pancreas	Allogenic vaccine/resectable pancreatic cancer, Stage I & II patients	HyperAcute				<b>&gt;</b>	722-patient trial, >200 enrolled, interim look 4Q12/1Q13. Phase II data at DDW & ASCO.
HyperAcute Pancreas	Allogenic vaccine/resectable pancreatic cancer, locally advanced disease	HyperAcute			<b>&gt;</b>		Will enter Phase II
HyperAcute Lung	Allogenic vaccine/NSCLC	HyperAcute			$\Rightarrow$		Data expected 1H12, Phase II/III expected 1H12. Phase II data @ ASCO.
HyperAcute Melanoma	Allogeneic vaccine/non-visceral metastatic melanoma	HyperAcute			<b>\rightarrow</b>		Data expected, likely next step is Phase II/III in 2H12
HyperAcute Prostate	Allogeneic vaccine/prostate cancer	HyperAcute			•		Possible partnering candidate
HyperAcute various	Exhibit 16: Pancreatic Cancer Model	HyperAcute					May explore NCI funding
D-1MT	Small molecule inhibitor of IDO/solid tumors	IDO pathway inhibitor					NCI-funded Phase II studies, preliminary data expected. Two posters @ ASCO.
2nd generation IDO	Small molecule inhibitor of IDO/solid tumors	IDO pathway inhibitor					Higher potency vs. D-1MT

Source: NewLink Genetics, Cantor Fitzgerald



**Exhibit 4: Selected Immunotherapy Companies** 

		Price	Market	Price/	Debt	Stage of Lead	
Company	Ticker	4/18/2012	Cap	Cash	(\$ in mln)	Candidate	Technology
Agenus	AGEN	6.22	\$126.0	7.66	30.90	Phase III	Autologous
Celldex (a)	CLDX	4.06	179.2	2.26	17.00	Phase III	Allogeneic
Dendreon	DNDN	8.98	1,314.7	2.45	536.00	Commercial	Autologous
NewLink	NLNK	11.16	223.2	2.65	7.00	Phase III	Allogeneic
Oncothyreon (a)	ONTY	4.06	182.1	2.51	3.30	Phase III	Allogeneic
Vical	VICL	2.90	213.8	4.15	0.00	Phase III	DNA

EPS Estimates(b)	2010A	2011A	2012E	52WkHi	52WkLo	Rating
Agenus	(1.38)	(1.21)	(1.21)	\$7.18	\$1.92	NC
Celldex	(1.04)	(1.13)	(1.00)	5.66	2.05	BUY
Dendreon	(2.91)	(3.14)	(1.89)	43.96	6.46	HOLD
NewLink	(4.84)	(2.98)	(2.07)	10.85	6.25	BUY
Oncothyreon	(0.58)	(1.12)	(0.63)	11.59	4.02	BUY
Vical	(0.54)	(0.10)	(0.28)	5.30	2.22	NC

<sup>(</sup>a) pro forma for an equity offering in 1Q12

Source: Cantor Fitzgerald, Thomson One, the companies

<sup>(</sup>b) EPS estimates for non-covered companies are Thomson One concensus estimate.



**Exhibit 5: Companies Mentioned** 

			Cantor
Company Name	Ticker	Exchange	Rating
Agenus	AGEN	NASDAQ	NC
Celldex	CLDX	NASDAQ	BUY
Dendreon	DNDN	NASDAQ	HOLD
NewLink Genetics	NLNK	NASDAQ	BUY
Oncothyreon	ONTY	NASDAQ	BUY
Vical	VICL	NASDAQ	NC

Source: Cantor Fitzgerald, Thomson Reuters



# **Disclosures Appendix**

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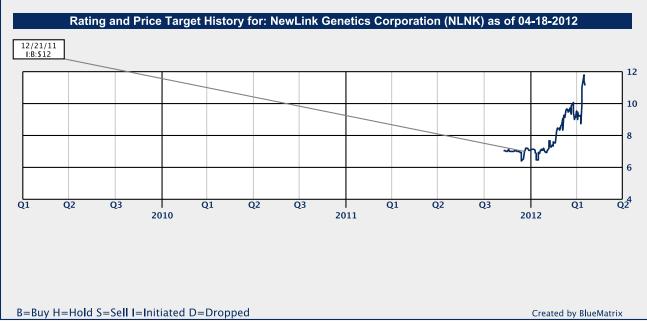
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			IB Serv	IB Serv./Past 12 Mos.		
Rating	Count	Percent	Count	Percent		
BUY [B]	64	56.64	4	6.25		
HOLD [H]	38	33.63	1	2.63		
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