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Reason for report:

COMPANY UPDATE

ACCELERON PHARMA

Positive Updates on 1Q14 EPS Call & Our Biotech Bus Tour; Reit **OP & \$52PT**

- Bottom Line: XLRN provided broad and meaningful pipeline updates on its 1Q14 EPS call, and we obtained additional clarity by visiting the company with our Boston Biotech Bus tour, XLRN's proprietary Dalantercept (Dal) program in 2nd-line renal cell carcinoma (RCC) is advancing with provocative ASCO abstract data defined by high response rates (RR) and safety. Additional presentations at ASCO should further reinforce this data with Part-2 reading out in 2H15. An important new development in the Sotatercept end stage renal disease (ESRD) program is that XLRN now plans to report bone mineral density (BMD) and vascular calcification data from Part-1 (dose escalation) of this Phase II trial at the American Society of Nephrology (11.11-16.14). This makes us cautiously optimistic the data will be an upside surprise given XLRN previously did not plan to announce this type of data from a small dose escalation trial given it would be unlikely to show any trend. We remain focused on near-term pipeline presentations (three at ASCO, four at EHA) and reiterate our Outperform rating and \$52 price target.
- The proprietary Dal program is maturing and advancing very solidly. ASCO Abstract 4566 data for the Dal-Axitinib (see our 5.14.14 note) combo RCC trial actually already included dose expansion data (not just dose escalation) per an ASCO policy that allows sponsors the option to supplement abstracts submitted by the 2.4.14 deadline. New updates include: (1) no DLTs in the RCC trial; (2) 0.9mg/kg was selected as the recommended Phase II dose (RP2D); (3) at ASCO we can expect additional data for a few patients, greater detail on patient characteristics/ prior therapies and emerging duration of response data. The Phase II Part-2 randomized trial will start shortly with the goal of increasing PFS by ~3 months to 7-8 months total from ~4.8 with Axitinib monotherapy. Part-2 will allow enrollment of prior immunotherapy patients, with data in 2H15.
- An important new development is that XLRN now plans to report Sotatercept ESRD data at ASN 2014 (11.11-16.14) that will include actual BMD and vascular calcification data from Part-1 (dose escalation) of the Phase II trial. With 6-8 patients per cohort and 4 cohorts there could be data on 24-32 patients. We are cautiously optimistic these data will be an upside surprise given XLRN's previous message that BMD and vascular calcification data in a small dose escalation trial would likely be insufficient to show any trends and thus XLRN was not planning to report it... and now it is. Interpreting these data in the context of natural history progression will be important. Possible outcomes could be that Sotatercept has: (1) no effect; (2) slows progression; (3) prevents further calcification, or (4) even reverses calcification. All but having no effect would be important and characterize a first-in-class new therapeutic

Key Stats: (NASDAQ:XLRN)

S&P 600 Health Care Index: 1,224.81 Price: \$31.56 Price Target: \$52.00

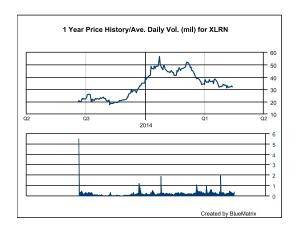
Methodology:

DCF analysis; 10% discount rate; 1%

terminal growth rate

52 Week High: \$57.89 52 Week Low: \$15.00 Shares Outstanding (mil): 30.3 Market Capitalization (mil): \$956.3 Book Value/Share: \$1.32 Cash Per Share: \$7.06 Dividend (ann): \$0.00 Dividend Yield: 0.0%

Cash Per Share:



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Dec Yr	1Q	2Q	3Q	4Q	FY Rev	1Q	2Q	3Q	4Q	FY EPS	P/E
2013A	\$15.0	\$26.4	\$4.3	\$11.5	\$57.2	\$0.13	\$0.64	(\$0.66)	(\$0.64)	(\$4.15)	NM
2014E - New	\$3.3A	0.0	\$30.0	0.0	\$33.3	(\$0.30)A	(\$0.55)	\$0.39	(\$0.60)	(\$1.06)	NM
2014E - Old	0.0	0.0	\$30.0	0.0	\$30.0	(\$0.50)	(\$0.53)	\$0.40	(\$0.58)	(\$1.22)	NM
2015E - New					0.0	ļ				(\$2.29)	NM
2015E - Old					0.0	ļ				(\$2.20)	NM

Source: Company Information and Leerink Partners LLC Research

Revenue in MM. GAAP EPS presented.



INVESTMENT THESIS

We rate XLRN Outperform. We believe XLRN shares are poised to appreciate near/longer term driven by progress with CELG-partnered compounds Sotatercept/ACE-536 and proprietary Dalantercept (ACE-041). XLRN has multiple significant data read-out catalysts during almost every quarter until YE14. Pivotal catalysts through 2014: (1) Preliminary Dalantercept Phase II RCC data in 2Q14; (2) top-line Sotatercept and ACE-536 Phase II MDS and β-Thal. (4 trials) data at EHA in 2Q14; (3) final Sotatercept and ACE-536 Phase II MDS and β-Thal. (4 trials) data at ASH in 4Q14; (4) initiate pivotal MDS and/or β-Thal. trials by YE14. MEDACorp KOLs are very bullish and encouraged by emerging pipeline data and science. We assume probability of success in the low 30s percent range for Sotatercept/ACE-536 in MDS, 40% for β-Thal., 20% in end-stage renal disease (ESRD) patients on hemodialysis, and low 30s percent range for Dalantercept in 2nd-line RCC.

Quarter Update

XLRN reported EPS of (\$0.30) vs. our (\$0.50) estimate primary driven by booking of some revenue and lower-than-anticipated expenses. Revenue was \$3.3M vs. our \$0 estimate. Net loss was \$9.1M vs. our \$15.1M estimate. XLRN end 1Q14 with ~\$214M in cash and equivalents or ~\$7.06/share.

ASCO 2014 Titles

Dalantercept:								
Abstract #	Title	Poster Board	Presenter					
5594	Phase II evaluation of dalantercept, a soluble recombinant activin receptor-like kinase 1 (ALK1) receptor-fusion protein, for treatment of recurrent/persistent endometrial cancer: GOG-0229N.	5/31(Sat) 8-11:45am S Hall A2 General poster Track(s): Gynecologic Cancer	376	Vicky Makker, MD				
6045	Phase 2 study of dalantercept in recurrent or metastatic squamous cell carcinoma of the head and neck	5/31 (Sat) 1:15-5pm S Hall A2 General poster Track(s): Head and Neck Cancer	80	Antonio Jimeno, MD, PhD				
4566	A two-part phase 2 randomized study of dalantercept and axitinib versus placebo plus axitinib in advanced renal cell carcinoma: Results from the part 1 dose escalation cohorts.	6/2 (Mon) 1:15-5pm S Hall A2 General Poster Track(s): Genitourinary Cancer	134	Michael B. Atkins, MD				

Source: ASCO.org, Leerink Partners estimates



Milestones

Product	Partner	Indication	Phase	Timing	Milestone
				2Q14	Phase II dose escalation data for MDS + β-Thal. at EHA- 2014
ACE-536				4Q14	Final Phase II in MDS and β-Thal. data
				YE14/ early-15	Initiate Phase III trial for MDS and/or β-Thal.
	051.0	MDS +	Ph. II	2018	Approval and launch
	CELG	β-Thal.		2Q14	Phase II dose escalation β-Thal. data at EHA-2014 + Preclinical data in sickle cell anemia
Sotatercept				4Q14	Final Phase II in MDS + β-Thal. data
(ACE-011)				2018	Approval and launch
,				YE14/early-15	Initiate Phase III trial for MDS and/or β-Thal.
	CELG	ESRD	Ph. II	11.11-16.14	Phase II Part-1 data (0.7mg/kg cohort+BMD/Vasc Calcificat)
			Ph. II	early-June -14	Interim Part-1 Phase II RCC combo data (ASCO-2014)
				2Q14	Initiate Phase II Dal-sorafenib combo trial in HCC
Dalantercept		Oncology		YE14	Preliminary Phase II Dal-sorafenib combo RR data in HCC
(ACE-041)		Chloology		2H15	Phase II RCC Part-2 data
	Proprietary			2014	Phase II data in SCCHN
				2018	Approval and launch in RCC
ACE-083		Muscle	PC	2H14	Advance ACE-083 into clinic for Muscle Loss
New TGF-β Candidates		Fibrosis	PC	2015	Advance Fibrosis (i.e., PAH) candidate into clinic

Source: Company reports, Leerink Partners estimates



Phase II Sotate	rcept Intravenous (IV)/Subcutaneous (SC) End-Stage Kidney Disease Patients on Hemodialysis
Purpose:	Determine optimal administration route, dose level, and safety of IV or SC sotatercept for maintaining hemoglobin
	levels in ESRD hemodialysis subjects
# Pts:	Part-1: N=60
	Part-2: N=230
	19 international sites (as of 1.8.14)
Design:	Interventional, 2x Part, randomized, open label, treatment trial
Trial Arms:	Note: Patients in both parts of study must first be on stable dose of ESA to maintain Hg levels and switched to treatment with sotatercept after an ESA treatment free period of ~5 days
	Part-1: Staggered dose group escalation
	• Arm-1 (IV): ACE-011 IV starting at 0.1mg/kg (gp-1), then 0.2mg/kg (gp-2) and 0.3mg/kg (gp-3) every 14 days for total of 8 doses and followed for 4 months after last dose
	 Arm-2 (SC): ACE-011 SC starting at 0.13mg/kg (gp-1), then 0.26mg/kg (gp-2), and 0.4mg/kg (gp-3) every14 days for total of 8 doses and followed for 4 months after last dose
	Part-2: Parallel group, randomized vs. active control (ESA)
Primary	Part-1:
Endpoint:	 Pharmacokinetics: C-max, T-max, AUC 28days [Time Frame: 28 days] and T-1/2,z [211 days]
	Adverse Events: [Time Frame: 211 days] [Designated as safety issue], TEAEs
	Part-2:
	 Change in mean hemoglobin concentration from baseline Ability of sotatercept to maintain hemoglobin levels within target range after switching from ESA to sotatercept
Secondary	Efficacy [Time Frame: 113 days]
Endpoints:	Change in mean hemoglobin (Hg) concentration between baseline and day-113
	Bone Turnover biomarkers for remodeling and mineral metabolism for 211 days
	Change in serum bone biomarker concentrations between baseline and end of study (day-211)
Start:	October-2013
Data:	October-2015
Status:	Recruiting (as of 1.8.14)
Sponsors:	CELG
Clin.Trial.ID:	NCT01999582, ACE-011-REN-002, 2012-003788-23

Source: Company reports, Leerink Partners estimates

VALUATION

Our \$52 12-month price target of XLRN shares reflects probability-adjusted royalty revenue at 20% from ESRD patients on hemodialysis. Our valuation is based on a discounted cash flow analysis. We believe XLRN shares are poised to appreciate near/longer term driven by progress with CELG-partnered compounds Sotatercept/ACE-536 and proprietary Dalantercept (ACE-041). We apply a discount rate of 10% and a terminal growth rate of 1%, which translates to an 11x terminal multiple, which we believe is comparable to biotechnology companies in a similar development stage.

RISKS TO VALUATION

An investment in XLRN is fundamentally a high-risk, high-reward investment, in our opinion. XLRN may face significant clinical, regulatory, and commercial risks for pipeline products. Most important is clinical risk for Phase II Sotatercept and ACE-536 trials in MDS (myelodysplastic syndromes) and β -Thal. as well as Dalantercept/Axitinib in RCC. There is also competitive risk from emerging MDS, β -Thal., and RCC therapies. Finally, XLRN may face financing risk beyond 1H15.

					XI RN F	P&L (\$000s, exc	ent ner share	data)										
	2013A	1Q14A	2Q14E	3Q14E	4Q14E	2014E	2015E	2016E	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E
Revenues																		
Sotatercept/ACE-536 WW Revenue in MDS to CELG										\$66,089	\$141,589	\$227,505	\$324,937	\$435,091	\$559,283	\$698,955	\$855,680	\$1.031.180
Probability of Success										32%	32%	32%	32%	32%	32%	32%	32%	32%
Risk Adjusted Sotatercept/ACE-536 WW Revenue										\$21,148	\$45,308	\$72,801	\$103,980	\$139,229	\$178,971	\$223,666	\$273.818	\$329.978
Risk Adjusted Sotatercept/ACE-536 WW Revenue Risk Adjusted Sotatercept/ACE-536 WW Royalties in MDS										\$4,230	\$9.515	\$16,016	\$23,915	\$32,023	\$42,953	\$223,000 \$55,916	\$68,454	\$329,976 \$82.494
RISK Adjusted Solatercept/ACE-536 WW Royalties III MIDS										\$4,230	\$9,515	\$10,016	\$23,915	\$32,023	\$42,953	\$55,916	\$00,434	\$02,494
Sotatercept/ACE-536 WW Revenue in NTD β-Thal. to CELG										\$3,659	\$60,642	\$127,092	\$226,546	\$339.098	\$466.097	\$609.020	\$767,222	\$904.639
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Probability of Success										40%	40%	40%	40%	40%	40%	40%	40%	40%
Risk Adjusted Sotatercept/ACE-536 WW Revenue in NTD β-Thal.										\$1,464	\$24,257	\$50,837	\$90,619	\$135,639	\$186,439	\$243,608	\$306,889	\$361,856
Risk Adjusted Sotatercept/ACE-536 WW Royalties in NTD β-Thal.										\$293	\$4,851	\$10,676	\$19,936	\$29,841	\$42,881	\$58,466	\$73,653	\$90,464
Dalantercept WW Revenue in 2nd-line RCC										\$68,061	\$131,647	\$210,325	\$298,864	\$398,173	\$509,233	\$633,101	\$770,918	\$877,863
Probability of Success										32%	32%	32%	32%	32%	32%	32%	32%	32%
Risk Adjusted Dalantercept WW Revenue in 2nd-line RCC										\$21.780	\$42,127	\$67.304	\$95.637	\$127.415	\$162.954	\$202.592	\$246.694	\$280.916
Risk Adjusted Dalamercept www Revenue in 2nd-line RCC										\$21,700	\$42,127	\$67,304	\$95,637	\$127,415	\$162,954	\$202,592	\$240,094	\$200,910
Sotatercept US Revenue in ESRD Patients on Hemodialysis												\$301,866	\$819,107	\$1,418,781	\$1,915,379	\$2.064.199	\$2,220,226	\$2,383,756
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Probability of Success												20%	20%	20%	20%	20%	20%	20%
Risk Adjusted Sotatercept US Revenue in ESRD Patients on Hemodialysis												\$60,373	\$163,821	\$283,756	\$383,076	\$412,840	\$444,045	\$476,751
Risk Adjusted Sotatercept US Royalties in ESRD Patients on Hemodialysis					ı							\$12,075	\$36,041	\$65,264	\$91,938	\$103,210	\$111,011	\$119,188
Collaboration Revenue	\$57.231	\$3,307	_	\$30,000		\$33,307	_	\$40,000	\$30,000	\$22,400	\$8,000	_	\$8.000	_	\$8,000	\$8.000	\$8.000	\$8,000
Total Revenue	\$57,231	\$3,307	-	\$30,000	-	\$33,307	-	\$40,000	\$30,000	\$48,702	\$64,493	\$106,071	\$183,529	\$254,543	\$348,727	\$428,184	\$507,813	\$581,062
Costs and Expenses	,	72,50				,,,,,,,,			,,,,,,	· · · · · ·	,			,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	****
Probability Adjusted Dalantercept COGS							_	_	_	\$3,267	\$6,319	\$10.096	\$9.564	\$12,742	\$16,295	\$20,259	\$24,669	\$28.092
Research and Development	\$36.051	\$11.765	\$12,200	\$12,500	\$13,280	\$49.745	\$55.217	\$61,291	\$68.033	\$34,016	\$35.717	\$37.503	\$39.378	\$41,347	\$43,415	\$45,585	\$47.864	\$50,258
SG&A (Risk Adjusted from Time of Dalantercept Launch)	\$14,227	\$3,750	\$4,500	\$5,100	\$5,200	\$18,550	\$20,405	\$22,446	\$24,690	\$34,010	\$34,199	\$36,935	\$38,782	\$40,721	\$42,757	\$44,895	\$47,139	\$49,496
Total Costs and Expenses	\$50.278	\$15.515	\$4,500 \$16,700	\$5,100 \$17,600	\$5,200 \$18.480	\$68,295	\$20,405 \$ 75.622	\$83,736	\$24,690	\$68,373	\$76,235	\$84,534	\$87,724	\$40,721	\$42,757 \$102,467	\$110,739	\$119,673	\$127,846
Total Costs and Expenses	\$30,276	\$13,313	\$10,700	\$17,000	\$10,400	\$00,293	\$73,022	φ03,730	φ 3 2,723	\$00,373	\$70,233	404,334	\$67,724	\$34,610	\$102,407	\$110,739	\$119,073	\$127,640
Operating Income (EBIT)	\$6,952	(\$12,208)	(\$16,700)	\$12,400	(\$18,480)	(\$34,988)	(\$75,622)	(\$43,736)	(\$62,723)	(\$19,671)	(\$11,742)	\$21,537	\$95,805	\$159,733	\$246,260	\$317,445	\$388,140	\$453,217
Y/Y growth																		
Other Income (Expenses)	(\$27,710)	\$3,088				-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	\$20																	
Interest Expense	(\$1,161)		(\$378)	(\$298)	(\$219)	(\$895)	(\$521)	-	-	-	-	-	-	-	-	-	-	-
Income Before Taxes	(\$21,898)	(\$9,120)	(\$17,078)	\$12,102	(\$18,699)	(\$32,795)	(\$76,143)	(\$43,736)	(\$62,723)	(\$19,671)	(\$11,742)	\$21,537	\$95,805	\$159,733	\$246,260	\$317,445	\$388,140	\$453,217
Provision for Taxes						-	-	-	-	-	-	-	-	-	29,317	107,931	131,967	154,094
Tax Rate						0%	0%	0%	0%	0%	0%	0%	0%	0%	12%	34%	34%	34%
Net income	(\$21,898)	(\$9,120)	(\$17,078)	\$12,102	(\$18,699)	(\$32,795)	(\$76,143)	(\$43,736)	(\$62,723)	(\$19,671)	(\$11,742)	\$21,537	\$95,805	\$159,733	\$216,942	\$209,514	\$256,172	\$299,123
Net income (loss) applicable to common stockholders—diluted	(\$39,003)	(\$9,120)	(\$17,078)	\$12,102	(\$18,699)	(\$32,795)	(\$76,143)	(\$43,736)	(\$62,723)	(\$19,671)	(\$11,742)	\$21,537	\$95,805	\$159,733	\$216,942	\$209,514	\$256,172	\$299,123
Change in fair value of warrants	\$1,500																	
EPS (LPS) Basic	(\$4.15)	(\$0.30)	(\$0.55)	\$0.39	(\$0.60)	(\$1.06)	(\$2.29)	(\$1.30)	(\$1.85)	(\$0.57)	(\$0.34)	\$0.62	\$2.72	\$4.48	\$6.03	\$5.76	\$6.98	\$8.07
LEG (LEG) Basic	(\$4.15)	(\$0.30)	(\$0.05)	\$0.39	(\$0.00)	(\$1.06)	(\$2.29)	(\$1.30)	(\$1.65)	(\$0.57)	(\$0.34)	\$0.62	\$2.72	\$4.48	\$6.03	\$5.76	\$0.98	\$6.07
Basic Shares (000)	9,407	30,321	31,140	31,171	31,202	30,931	33,241	33,573	33,909	34,248	34,590	34,936	35,286	35,639	35,995	36,355	36,719	37,086

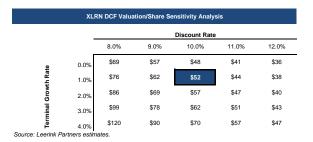
Source: Leerink Partners estimates and company reports.

NTD=non-transfusion dependent.

DCF Calcuation

Discount rate	10%
Terminal Growth Rate	1%
Valuation (\$M)	\$1,668
Valuation / Share	\$52

Source: Leerink Partners estimates.





Disclosures Appendix Analyst Certification

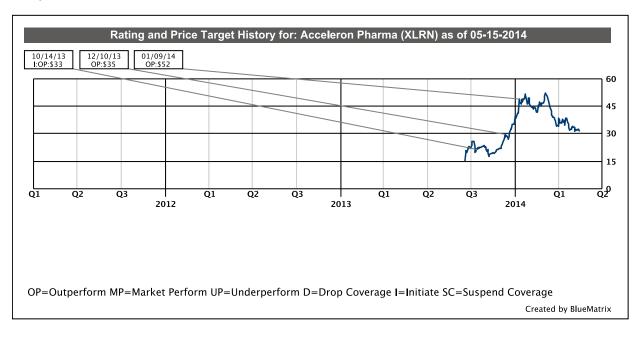
I, Marko Kozul, M.D., certify that the views expressed in this report accurately reflect my views and that no part of my compensation was, is, or will be directly related to the specific recommendation or views contained in this report.

Valuation

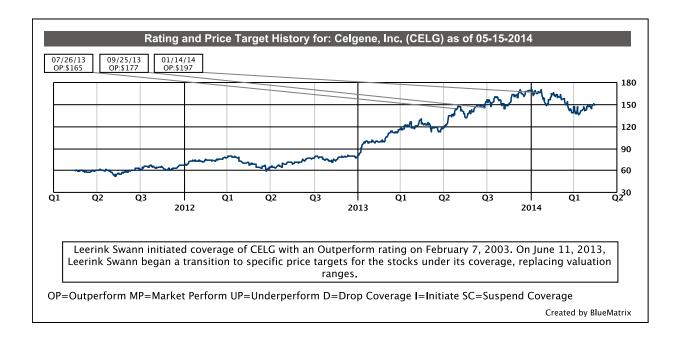
Our \$52 12-month price target of XLRN shares reflects probability-adjusted royalty revenue at 20% from ESRD patients on hemodialysis. Our valuation is based on a discounted cash flow analysis. We believe XLRN shares are poised to appreciate near/longer term driven by progress with CELG-partnered compounds Sotatercept/ACE-536 and proprietary Dalantercept (ACE-041). We apply a discount rate of 10% and a terminal growth rate of 1%, which translates to an 11x terminal multiple, which we believe is comparable to biotechnology companies in a similar development stage.

Risks to Valuation

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	Distribution of Ratings/Investment Bank	ing Services (IB	,	erv./Past 12 Mos.
Rating	Count	Percent	Count	Percent
BUY [OP]	131	68.23	46	35.11
HOLD [MP]	61	31.77	3	4.92
SELL [UP]	0	0.00	0	0.00

Explanation of Ratings

Outperform (Buy): We expect this stock to outperform its benchmark over the next 12 months.

<u>Market Perform (Hold/Neutral):</u> We expect this stock to perform in line with its benchmark over the next 12 months.

<u>Underperform (Sell):</u> We expect this stock to underperform its benchmark over the next 12 months. The degree of outperformance or underperformance required to warrant an Outperform or an Underperform rating should be commensurate with the risk profile of the company.

For the purposes of these definitions the relevant benchmark will be the S&P 600® Health Care Index for issuers with a market capitalization of less than \$2 billion and the S&P 500® Health Care Index for issuers with a market capitalization over \$2 billion.

Important Disclosures

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MEDACorp is a network of healthcare professionals, attorneys, physicians, key opinion leaders and other specialists accessed by Leerink and it provides information used by its analysts in preparing research.



In the past 12 months, the Firm has received compensation for providing investment banking services to Acceleron Pharma .

Leerink Partners LLC makes a market in Acceleron Pharma and Celgene, Inc.

Leerink Partners LLC has acted as the manager for a public offering of Acceleron Pharma in the past 12 months.

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