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Reason for report:

COMPANY UPDATE

ACCELERON PHARMA

Very Encouraging New SOT/ACE-536 Data in MDS & TD β -Thal; Reit OP & \$52PT

- Bottom Line: Top-line data in European Hematology Association (EHA) abstracts released today show very encouraging new data for ACE-536 in MyeloDysplastic Syndrome (MDS) patients and new data for Sotatercept (SOT)/ACE-536 in Transfusion Dependent (TD) β -Thalassemia (β -Thal.). In MDS, ACE-536 is demonstrating impressive efficacy (in a small trial) across both TD and Non-Transfusion-Dependent (NTD) patients. In β -Thal., NTD data for both SOT-ACE-536 build upon previous updates and are maturing nicely. New for β -Thal. Is that 100% (4/4) of ACE-536 treated TD patients are showing reductions in transfusion requirements while respective data for SOT will be presented at the meeting. These data demonstrate solid management execution in these programs (i.e., achieving >2g/dL Hgb increases in NTD patients) and while they suggest efficacy goals are already being met further dose escalation is continuing in order to provide additional dosing information. We reiterate our Outperform rating and \$52 price target (PT).
- New (presented for the first time) ACE-536 MDS data demonstrate impressive efficacy across both TD and NTD patients (EHA presentation 6.15.14; 8:45 CEST). Emerging efficacy data are available for 15 patients (5 NTD, 10 TD) treated in the first 4 cohorts (0.125, 0.25, 0.5, or 0.75mg/kg). For TD patients, 40% (4/10) experience a ≥50% reduction in transfused units during an 8-week treatment interval vs. the 8 weeks prior to treatment with 1 patient who was previously ESA and lenalidomide non-responsive being transfusion-free while on study (~22 weeks). 5 NTD patients showed dose-dependent hemoglobin (Hgb) increased ranging from 0.8-3.3g/dL. For NTD patients 60% (3/5) in the 0.75mg/kg were either erythropoietin-stimulating agent (ESA) refractory or ESA non-responders and showed Hgb increases of 1.6, 1.9, and 3.3g/dL with 1 of these patients experiencing a ≥1.5g/dL sustained response for ~15 weeks. Additional data at EHA will include TD transfusion burden for patients treated at 1.0mg/kg.
- New for β -Thal. is that 100% (4/4) of ACE-536 treated TD patients are showing reductions in transfusion requirements while respective data for SOT will be presented at the meeting (EHA presentations 6.14.14; 8:15/8:45 CEST). So far, available efficacy data for 4/4 TD patients treated at 0.6 or 0.8mg/kg have experienced reductions in transfusion requirements. Key at EHA will be data for all patients at all 4 dose groups through Day 112 (5 cycles+7 days) and data in NTD patients treated at 0.8mg/kg. For SOT in TD β -Thal. transfusion burden changes will be presented for 0.1, 0.3. 0.5 and 0.75mg/kg groups.
- New in Sickle Cell Disease (SCD) will be a positive ACE-536 preclinical poster (EHA presentation 6.13.14; 5:45-7PM CEST). These data demonstrate that after 1 month of treatment, RAP-536 (a murine version of ACE-536) significantly increased red blood cell (RBC)

Key Stats:	(NASDAQ:XLRN)
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34.31
31.76
52.00

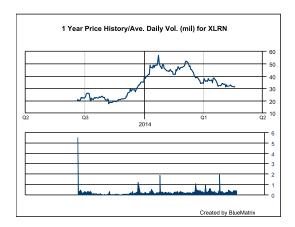
Methodology:

DCF analysis; 10% discount rate; 1% terminal growth rate

terminal growth rate \$57.89

52 Week High:	\$57.89
52 Week Low:	\$15.00
Shares Outstanding (mil):	30.3
Market Capitalization (mil):	\$962.3
Book Value/Share:	\$1.32
Cash Per Share:	\$7.06
Dividend (ann):	\$0.00
Dividend Yield:	0.0%

Cash Per Share:



nunbers, Hgb	and Agauce	ed regiculo	ocyteggvs.	piac <mark>ęgo in</mark>	2 ALKENIC	^{3.} 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	\$3.3A	0.0	\$30.0	0.0	\$33.3	(\$0.30)A	(\$0.55)	\$0.39	(\$0.60)	(\$1.06)	NM
2015E					0.0					(\$2.29)	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.

ASCO 2014 Titles

Dalanterce	pt:			
Abstract #	Title	Time/Session	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.		
	CELG	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)		
				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	Ph. II	YE14	Preliminary Phase II Dal-sorafenib combo RR data in HCC		
(ACE-041)		Oncology		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		Advance Fibrosis (i.e., PAH) candidate into clinic		

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.

XLRN P&L (\$000s, except per 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 Royalties in MDS										\$4,230	\$9.515	\$16,016	\$23,915	\$32,023	\$42,953	\$55,916	\$68,454	\$82,494
										. ,	,.	,	,.	,	, ,	,		,
Sotatercept/ACE-536 WW Revenue in NTD 8-Thal, to CELG										\$3.659	\$60,642	\$127.092	\$226,546	\$339.098	\$466,097	\$609,020	\$767,222	\$904.639
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
The trajuctor obtatoropartor out the trajunto in the p than										\$200	\$1,00 .	\$10,010	\$10,000	\$20,041	\$12,00 1	400,100	ψ. 0,000	400,101
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
Kisk Aujusteu Dalaittercept WW Revenue III Zhu-iine Roo										\$21,700	φ42,12 <i>1</i>	\$07,304	φ93,037	\$127,413	\$102,554	\$202,352	φ240,034	\$200,510
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												\$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 \$57.231	\$3,307 \$3,307		\$30,000	-	\$33,307		\$40,000	\$30,000	\$22,400 \$48,702	\$64,493	\$106,071	\$8,000 \$183.529	\$254.543	\$348.727	\$428.184	\$507.813	\$8,000 \$581.062
	\$37,231	\$3,307		\$30,000		\$33,307		\$40,000	\$30,000	\$40,702	\$04,433	\$100,071	\$103,329	\$234,343	\$340,121	\$420,104	\$307,813	\$381,002
Costs and Expenses																***		***
Probability Adjusted Dalantercept COGS	-	\$11,765	\$12,200	640.500	640.000	640.745	-	-	-	\$3,267	\$6,319 \$35,717	\$10,096 \$37,503	\$9,564 \$39,378	\$12,742 \$41,347	\$16,295 \$43,415	\$20,259 \$45,585	\$24,669 \$47,864	\$28,092 \$50,258
Research and Development	\$36,051			\$12,500	\$13,280	\$49,745	\$55,217	\$61,291	\$68,033	\$34,016								
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	\$31,090	\$34,199	\$36,935	\$38,782	\$40,721	\$42,757	\$44,895	\$47,139	\$49,496
Total Costs and Expenses	\$50,278	\$15,515	\$16,700	\$17,600	\$18,480	\$68,295	\$75,622	\$83,736	\$92,723	\$68,373	\$76,235	\$84,534	\$87,724	\$94,810	\$102,467	\$110,739	\$119,673	\$127,846
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	(,/	(, , , , , , ,	. ,	(, , , , , , ,		, , , , , ,	(, _ , , , , ,			(, , , , , , , ,							
	4.,555																	
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
	(5 10)	(45.50)	(42.50)	Ţ5 0	(42.30)	(+)	(420)	(\$50)	(4.130)	(+2.5.)	(+2.54)				71.00	,	71.00	75.07
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.

XLRN DCF Valuation/Share Sensitivity Analysis										
	_	Discount Rate								
		8.0%	9.0%	10.0%	11.0%	12.0%				
ø.	0.0%	\$69	\$57	\$48	\$41	\$36				
n Rat	1.0%	\$76	\$62	\$52	\$44	\$38				
Prowt	2.0%	\$86	\$69	\$57	\$47	\$40				
Terminal Growth Rate	3.0%	\$99	\$78	\$62	\$51	\$43				
Term	4.0%	\$120	\$90	\$70	\$57	\$47				
ource: Leerink Pa	artners estima	ates.								



Disclosures Appendix Analyst Certification

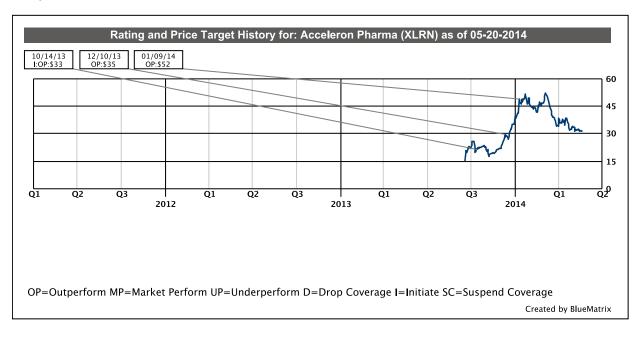
I, Marko Kozul, M.D., certify that the views expressed in this report accurately reflect my views and that no part of my compensation was, is, or will be directly related to the specific recommendation or views contained in this report.

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

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.









	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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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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