

US Equity Research

20 October 2015

BUY

unchanged

PRICE TARGET US\$80.00

unchanged

Price (19-Oct) US\$29.93

Ticker ATRA-NASDAQ

52-Week Range (US\$): 12.04 - 65.56
 Avg Daily Vol (000s) : 0.3
 Market Cap (US\$M): 853
 Shares Out. (M) : 28.5

FYE Dec	2014A	2015E	2016E
Revenue (US\$M)	0	0	0
EPS Adj&Dil (US\$)	(8.50)	(2.03)	(4.65)

Quarterly Revenue	Q1	Q2	Q3	Q4
2014A	0	0	0	0
2015E	0A	0A	0	0
2016E	0	0	0	0

Quarterly EPS Adj&Dil	Q1	Q2	Q3	Q4
2014A	0.00	0.00	(4.20)	0.00
2015E	(0.41)A	(0.25)A	(0.69)	(0.65)
2016E	(0.88)	(0.96)	(1.41)	(1.35)

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Company Update

R&D updates, manufacturing scale-up, regulatory timelines expected at Investor Day on 10/21

PINTA-745 top-line Phase 2 data expected in 4Q16

We expect Atara to walk through Phase 2 trial design for PINTA-745 in dialysis patients with protein energy wasting, including secondary endpoints, ahead of top-line data 4Q15. The Phase 2 trial evaluates PINTA-745's ability to increase lean body mass (primary endpoint) within n=48 patients with ESRD. The anti-myostatin peptibody previously demonstrated muscle-building activity within prostate cancer patients undergoing ADT, showing a statistically significant increase in LBM in the 3mg/kg dose at the end of study and at one-month follow-up.

Update on T-cell manufacturing expected

Atara will likely provide an update on its transition to commercial scale manufacturing for its T-cell programs during the Investor Day on October 21, signifying an inflection point as it gets closer to commercialization. Successful transfer of manufacturing from MSKCC to a larger, commercial-scale facility will be important in preparation for drug supply for Phase 3 and commercialization. We remind investors that Atara's cytotoxic T-cells products – EBV-CTL, CMV-CTL and WT1-CTL – are off-the-shelf, which simplifies production and ensures on-demand availability as compared to other immunotherapy approaches.

EBV-CTL regulatory timelines may be discussed

Atara may discuss the Phase 3 trial design and regulatory pathway for EBV-CTL at its Investor Day as the company is wrapping up Phase 2 trials. EBV-CTL received FDA Breakthrough Therapy Designation for EBV-associated lymphomas, potentially accelerating clinical development and regulatory approval timelines. We anticipate only a single Phase 3 study will be necessary for US approval, but await further details at the Investor Day.

Reiterate BUY with \$80 price target

We believe Atara is undervalued and maintain our BUY rating and \$80 price target ahead of data-rich 4Q15.

Figure 1: ATRA expected catalysts

Event	Timing	Description	Effect	Importance	Notes
Data	YE15	WT1-CTL	↑	High	Phase 1 data in r/r MM/PCL
Data	YE15	PINTA-745	↑	Critical	Results of Phase 2 in PEW in dialysis
Data	YE15	MSK T-cell programs	↑	Critical	Additional data
Data	1H16	STM-434	↑	High	Results of Phase 1 in ovarian and solid tumors

Source: Canaccord Genuity estimates

Figure 2: ATRA valuation

Product	Peak Sales / Royalty (\$MM)	Peak Year	NPV at launch (\$MM)	Probability Adjustment	Current Value (\$MM)	EV/S multiple	Value / Share NPV	Value / Share EV / S	Average NPV EV / S								
PINTA-745																	
US	1,575	2025	3,470	40%	576	5.5	\$24	\$41	\$32								
Ex-US (royalty)	127	2026	340	40%	73	5.5	\$3	\$3	\$3								
STM-434																	
US	185	2025	269	30%	(1)	5.5	(\$0)	\$4	\$2								
Ex-US (royalty)	11	2026	97	30%	16	5.5	\$1	\$0	\$0								
EBV-CTL																	
Hematopoetic Stem Cell Transplant																	
US	164	2025	622	50%	239	5.5	\$10	\$6	\$8								
Ex-US (royalty)	42	2025	192	50%	66	5.5	\$3	\$1	\$2								
Solid Organ Transplant																	
US	187	2023	1,206	50%	410	5.5	\$17	\$7	\$12								
Ex-US (royalty)	23	2022	301	50%	103	5.5	\$4	\$1	\$3								
CMV-CTL																	
US	123	2025	227	35%	38	5.5	\$2	\$3	\$2								
Ex-US (royalty)	36	2026	99	35%	18	5.5	\$1	\$1	\$1								
Equity Value							\$64	\$66	\$65								
Total Equity Value							\$64	\$66	\$65								
Net Cash							\$15	\$15	\$15								
Value per share							\$79	\$82	\$80								
Shares Outstanding (MM)							24										
<table><tr><td>Risk-Free Rate</td><td>2%</td></tr><tr><td>Beta</td><td>1.3</td></tr><tr><td>Risk Premium</td><td>9%</td></tr><tr><td>Discount Rate</td><td>13%</td></tr></table>										Risk-Free Rate	2%	Beta	1.3	Risk Premium	9%	Discount Rate	13%
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Risk Premium	9%																
Discount Rate	13%																

Source: Canaccord Genuity estimates

Figure 3: ATRA Income Statement

(\$000's) [FY - DEC]	2014A	1Q15A	2Q15A	3Q15E	4Q15E	2015E	2016E	2017E	2018E	2019E	2020E	2021E	2022E
Revenue:													
PINTA-745 - US									-	-	246,790	610,184	890,533
PINTA-745 - Ex-US royalty									-	-	-	20,884	51,124
STM-434 - US									-	18,800	57,810	80,982	161,655
STM-434 - Ex-US royalty									-	-	1,210	3,722	6,358
EBV-CTL - US													
HSCT									32,345	62,973	114,467	133,649	153,882
Solid Organ Transplant									20,166	62,321	106,998	132,266	158,959
EBV-CTL - Ex-US royalty													
HSCT									9,547	18,621	32,893	37,616	42,386
Solid Organ Transplant									3,208	9,673	16,202	19,539	22,910
CMV-CTL - US									-	17,088	35,209	54,409	74,736
CMV-CTL - Ex-US royalty									-	-	-	-	14,732
Total revenue	-	-	-	-	-	-	-	-	65,267	189,477	611,580	1,093,250	1,577,274
COGS	-	-	-	-	-	-	-	-	10,502	32,237	112,255	202,298	287,953
Gross profit	-	-	-	-	-	-	-	-	54,765	157,241	499,325	890,952	1,289,321
Operating expenses:													
Research and development	15,446	5,767	7,007	12,771	12,198	37,743	124,300	144,750	146,982	150,306	150,280	480,085	777,552
PINTA745	2,311	1,477	1,433	1,500	200	4,610	50,000	53,333	56,000	58,800	61,740	64,827	68,068
STM 434	4,389	664	628	1,250	1,250	3,792	13,333	16,667	17,500	12,250	8,575	7,718	6,946
ATA 842	624	982	1,825	1,000	1,000	4,807	4,000	7,333	13,333	35,000	36,750	37,118	29,694
T-cell therapy Programs (Option to license T-cell therapies)	2,000	122	4,587	5,380	5,379	15,468	38,617	48,150	39,918	23,014	20,911	19,028	17,344
EBV-CTL				3,267	3,267	6,533	25,067	30,080	15,040	7,520	6,768	6,091	5,482
CMV-CTL				1,513	1,513	3,025	12,050	16,870	23,618	14,171	12,754	11,478	10,331
WT1-CTL				601	600	1,201	1,500	1,200	1,260	1,323	1,389	1,459	1,532
Other R&D												327,975	630,910
Employee and overhead costs	6,122	2,522	3,034	3,641	4,369	13,566	18,350	19,267	20,230	21,242	22,304	23,419	24,590
Research and development costs paid to Amgen	(1,066)					0							
In-process R&D acquired from Amgen	-					0							
In-process R&D acquired from MSK			(4,500)										
Selling, General and Administrative	12,710	3,544	3,601	4,500	4,500	16,145	17,044	18,748	29,998	52,498	86,248	90,561	95,089
Total operating expenses	42,536	9,311	6,108	17,271	16,698	49,388	141,344	163,499	176,980	202,804	236,528	570,645	872,641
Operating Profit	(42,536)	(9,311)	(6,108)	(17,271)	(16,698)	(49,388)	(141,344)	(163,499)	(122,215)	(45,564)	262,796	320,307	416,680
Interest expense / income (net)	125	153	163			316							
Provision (benefit) for income taxes	25	(2)				(2)							
Unrealized losses on investments	25	82				82							
Other comprehensive loss			(48)										
Income tax benefit (expense)													
Net income	(42,361)	(9,078)	(5,993)	(17,271)	(16,698)	(49,040)	(141,344)	(163,499)	(122,215)	(45,564)	262,796	320,307	416,680
GAAP EPS	(\$8.50)	(\$0.41)	(\$0.25)	(\$0.69)	(\$0.65)	(\$2.03)	(\$4.65)	(\$4.90)	(\$3.38)	(\$1.20)	\$6.60	\$7.66	\$9.49
Shares Diluted	4,986	21,918	24,224	24,951	25,699	24,198	30,423	33,373	36,113	37,919	39,815	41,805	43,896

Source: Company reports and Canaccord Genuity estimates

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Target Price / Valuation Methodology:

Atara Biotherapeutics - ATRA

Our \$80 price target for Atara is based on an average of two valuation models. We utilize a sum-of-the-parts probability-adjusted NPV model with a 13% discount rate, and probability-adjust each indication between 30% and 50% based on the product and stage of development. Our effective discount rate is ~23% when taking into account probability adjustments. We also utilize a 5.5x multiple, based on a historical analysis of biotechnology companies, for an EV/S model.

Risks to achieving Target Price / Valuation:

Atara Biotherapeutics - ATRA

Clinical risks: Atara Biotherapeutics is a clinical-stage biotechnology company and we see various clinical regulatory, competitive, and safety risks to our rating and price target. Importantly, Atara's T-cell programs are not approved by FDA and could generate negative clinical data. The PINTA-745 program may also generate negative efficacy and/or safety data in the current Phase 1/2 trial and/or in subsequent trials. The STM-434 program is early in development, and has not yet generated data in humans.

Manufacturing risks: Atara's T-cell programs carry higher manufacturing risk versus biologic antibodies and small molecules since they are generated from human samples in a complex manner. Atara could experience challenges in transferring manufacturing from MSK to a larger, commercial-scale facility, and the FDA may also request stringent validation for the transfer. Although less complex, the PINTA-745 and STM-434 programs also carry manufacturing risk, as they are biologic products.

Regulatory risks: Atara's programs are not approved by FDA and could carry higher regulatory risk than expected.

Commercial and competitive risks: Atara may secure FDA approval for one or more products in its pipeline, but may generate revenues below our estimates. Also, the company may be unable to secure favorable reimbursement due to growing pressure on drug costs in the US. The biotechnology sector is highly competitive, and current and/or future competitors may emerge for Atara's products that could result in materially lower revenues than projected.

Financial risks: Atara has no revenues, and may not have revenues for several years, during which time the company is likely to need to raise significant additional capital, resulting in potential dilution for shareholders.

Intellectual property risks: Atara's pipeline consists entirely of biologic assets, increasing the barriers to entry from an intellectual property standpoint, but other entities or companies may challenge the company's intellectual property portfolio.

Distribution of Ratings:

Global Stock Ratings (as of 10/20/15)

Rating	Coverage Universe		IB Clients
	#	%	%
Buy	613	62.87%	31.81%
Hold	279	28.62%	11.83%
Sell	25	2.56%	4.00%
Speculative Buy	58	5.95%	58.62%
	975*	100.0%	

*Total includes stocks that are Under Review

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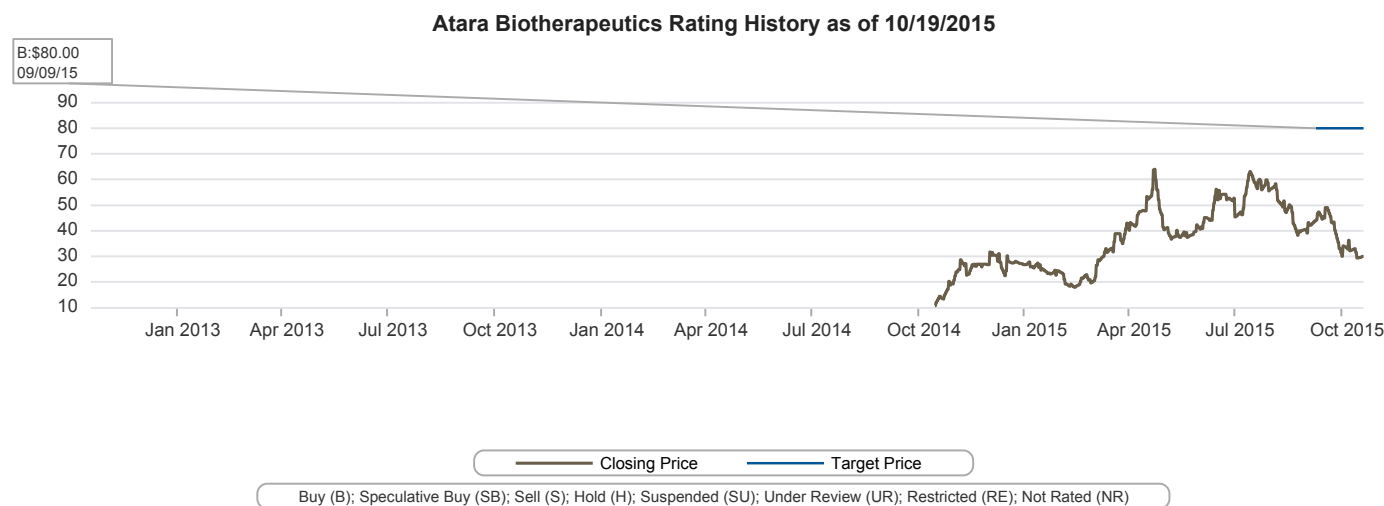
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