

US Equity Research

24 September 2015

BUY

unchanged

PRICE TARGET US\$80.00

unchanged

Price (24-Sep) US\$43.10

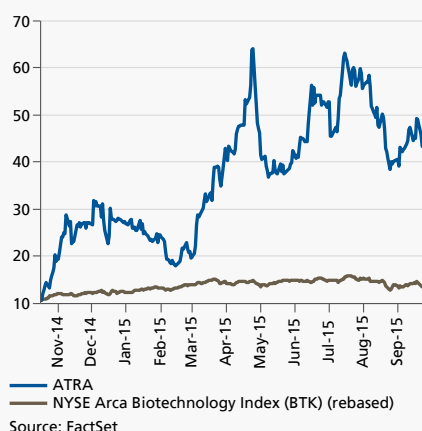
Ticker ATRA-NASDAQ

52-Week Range (US\$): 9.66 - 65.56
 Avg Daily Vol (000s): 0.3
 Market Cap (US\$M): 1,214
 Shares Out. (M): 24.2

| 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

WT1-CTL demonstrates promising single-agent Phase 1 data in heme malignancies

Early efficacy in single-agent WT1-CTL in relapsed/refractory MM and PCL following alloHCT

WT1-CTL, an off-the-shell cytotoxic T-cell therapy directed towards the WT1 cancer protein, demonstrated good preliminary efficacy in myeloma patients undergoing allogeneic SCT. Atara released an abstract detailing single-agent activity in a Phase 1 trial of n=7 heavily pre-treated, relapsed-refractory multiple myeloma (MM) and plasma cell leukemia (PCL) patients one year following alloHCT and three infusions of WT-1-CTL. The results show:

- three complete remissions (CR)
- one partial response (PR)
- two stable disease (SD)
- one progressive disease (PD)

This represents a disease control rate (DCR) of 86%. Full data will be presented on Saturday (9/26) during the IMW conference.

WT1-CTL may improve alloHCT response in r/r MM, PCL

Based on strong early efficacy, WT1-CTL may improve the alloHCT regimen in r/r MM and PCL if durability and safety can be maintained. Taking into account the small sample size, WT1-CTL demonstrated a CR of 42% and 0% mortality at one year, compared to published data for alloHCT showing a cure rate of 34-62% and mortality 20-26% in MM at 1-year. There is no published information on alloHCT in PCL. Due to high treatment-related mortality, alloHCT is typically utilized only in candidates that have a chance of achieving a cure. Based on these preliminary data, and if it can be maintained during long-term followup, WT1-CTL seems to confer similar efficacy with a reduction in mortality compared to alloHCT alone.

WT1 data opens door for other oncoprotein targets and demonstrates technology works in non-viral targets

Early data for WT1-CTL validates Atara's off-the-shell, target-specific T-cell platform in oncology. We believe Atara will likely leverage its platform to develop CTLs targeted to other distinctive oncogenes. Atara has a distinct advantage compared to other immunotherapy companies as its off-the-shell approach provides the most favorable economics and scalability.

Reiterate BUY with \$80 price target

We are encouraged by the continued progress with Atara's CTL platform beyond its lead program in EBV. We look forward to further data readouts for the EBV and PINTA-745 programs by YE2015.

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 | | | | | | | | | | | | | | | | | |
| Hematopoietic 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% |
| Risk-Free Rate | 2% | | | | | | | | | | | | | | | | |
| Beta | 1.3 | | | | | | | | | | | | | | | | |
| 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.

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| Rating | Coverage Universe | | IB Clients |
|-----------------|-------------------|--------|------------|
| | # | % | % |
| Buy | 617 | 62.58% | 31.77% |
| Hold | 283 | 28.70% | 13.07% |
| Sell | 28 | 2.84% | 3.57% |
| Speculative Buy | 58 | 5.88% | 56.90% |
| | 986* | 100.0% | |

*Total includes stocks that are Under Review

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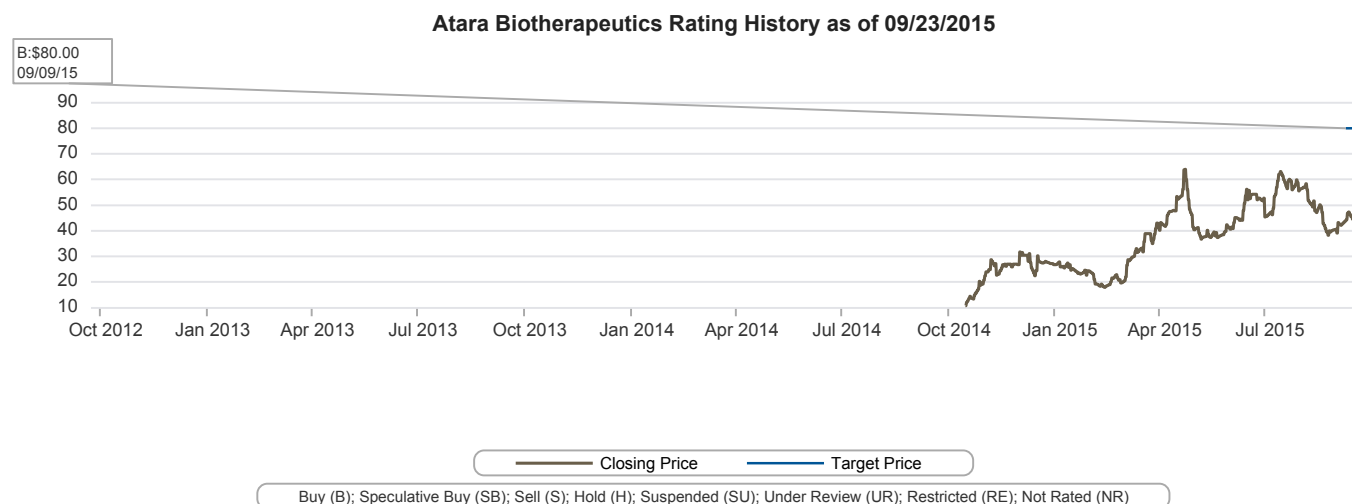
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