



Rating Price (16 Mar 15, US\$) Target price (US\$) 52-week price range Market cap. (US\$ m) Enterprise value (US\$ m) UNDERPERFORM\* 10.05 13.00¹ 18.95 - 8.00 178.47 173.70

\*Stock ratings are relative to the coverage universe in each analyst's or each team's respective sector.

<sup>1</sup>Target price is for 12 months.

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# Achaogen (AKAO)

**SMALL & MID CAP RESEARCH** 

# Q4 Earnings Uneventful; Waiting for Clinical Trial Update in Early Q2

AKAO reported Q4 results in-line with our estimates, and expects to provide an update to its clinical/regulatory strategy in early Q2. We anticipate that AKAO will announce amendments to the Phase III CARE trial and potentially new trials to support regulatory approval. The Phase III enrollment has been slower than AKAO originally forecasted, and an amendment to the protocol may help accelerate enrollment. Current guidance is for completion of CARE in 2017. We are increasing our 2015 EPS to (\$0.81) from (\$1.06) following the Q4:14 earnings update.

• AKAO seeking alternative strategies for Plazomicin. Disclosures in the 10K suggest that the potential clinical/regulatory update in early Q2 could have important ramifications on the timeline, need for funding, and ultimate label of plazomicin. AKAO is discussing both protocol amendments for the Phase III CARE trial and the design of additional trials that could "support and possibly facilitate regulatory filings." While the details of the proposed changes have not been disclosed, AKAO highlights the potential for these plans to require AKAO to "seek additional funds sooner than planned". We would view an acceleration of the clinical/regulatory timeline as a positive.

### Financial and valuation metrics

| Year  | 12/14A | 12/15E               | 12/16E | 12/17E  |
|---|--------|----------------------|--------|---------|
| EPS (CS adj.) (US\$)                          | -1.42  | -0.81                | -0.92  | -0.93   |
| Prev. EPS (US\$)                              | _      | -1.06                | -1.21  | -1.25   |
| P/E (x)                                       | -7.1   | -12.5                | -10.9  | -10.8   |
| P/E rel. (%)                                  | -39.2  | -70.4                | -69.9  | -77.8   |
| Revenue (US\$ m)                              | 20.0   | 23.2                 | 21.2   | 40.0    |
| EBITDA (US\$ m)                               | -19.4  | -14.5                | -21.6  | -22.3   |
| OCFPS (US\$)                                  | -1.01  | -0.57                | -0.72  | 0.94    |
| P/OCF (x)                                     | -13.0  | -17.7                | -14.0  | 10.7    |
| EV/EBITDA (current)                           | -8.4   | -11.2                | -7.5   | -7.3    |
| Net debt (US\$ m)                             | -16    | -5                   | -80    | -102    |
| ROIC (%)                                      | -40.38 | -30.39               | -45.12 | -264.08 |
| Number of shares (m)                          | 17.76  | IC (current, US\$ m  | )      | 49.00   |
| BV/share (Next Qtr., US\$)                    | 3.5    | EV/IC (x)            |        | 3.4     |
| Net debt (Next Qtr., US\$ m)                  | -13.1  | Dividend (current, I | US\$)  | _       |
| Net debt/tot eq (Next Qtr., %)                | -21.1  | Dividend yield (%)   |        | _       |
| Source: Company data, Credit Suisse estimates |        |                      |        |         |

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# **Comments from the 10-K regarding Plazomicin plans**

We believe that AKAO has already met with FDA to discuss its plans but is waiting for the meeting minutes or other communications before disclosing its plans publically. However, the 10-K contains multiple comments regarding possible changes, and we include some of these quotes here:

- "Enrollment in our Phase 3 CARE trial of plazomicin has been slower than anticipated and if this continues, we may decide to change our clinical development plan for plazomicin, in which case, we will need to seek additional funds sooner than planned."
- "We have been exploring strategies to improve patient recruitment and remain in discussions with the FDA regarding potential modifications to the study design as well as additional clinical trials that could support and, possibly, facilitate regulatory filings for plazomicin. We currently expect to provide an update on our development plans for plazomicin by early in the second guarter of 2015."
- "We have initiated discussions with the FDA and the EMA regarding additional clinical trials that could support regulatory filings for plazomicin. We currently expect to be in a position to provide an update on the development of plazomicin by early in the second quarter of 2015."
- "We may choose to revise the enrollment protocol, commence a new trial in a different patient population, or take other actions that may result in a substantial change in the clinical development program of plazomicin."
- "Further, if we choose to revise our current trial protocol or complete an alternative pivotal trial for plazomicin, we may not be able to claim certain of the market and label benefits that a successful superiority trial could provide."

**Exhibit 1: AKAO Pipeline** 

| Drug             | Indication                              | Stage       | Partner     |
|------------------|---|-------------|-------------|
| Plazomicin       | Carbapenam-resistant enterobacteriaceae | Phase III   | Proprietary |
| LpxC inhibitor   | Pseudomonas                             | Preclinical | Proprietary |
| Antibacterial Ab | Pseudomonas                             | Preclinical | Proprietary |

Source: Company data, Credit Suisse estimates.

**Exhibit 2: AKAO News Flow** 

| Timing     | Expected News Flow                         | Program         |
|------------|--|-----------------|
| Early 2015 | Initiate "Supportive" Phase 2              | Plazomic in     |
| H2:15      | Initiate safety trial                      | Plazomic in     |
| H2:15      | First interim - Phase 3                    | Plazomic in     |
| Q4:15      | "Supportive" Phase 2 top-line data release | Plazomic in     |
| 2015       | Select development candidate               | Antipseudomonal |
| 2016       | File IND                                   | Antipseudomonal |
| H2:16      | Second interim - Phase 3                   | Plazomic in     |
| H1:17      | Top-line data for Phase 3                  | Plazomic in     |
| YE:17      | File NDA with FDA                          | Plazomic in     |

Source: Company data, Credit Suisse estimates.



Exhibit 3: AKAO Model

|   | 2013A  | 2014A    | Q1:15E   | Q2:15E   | Q3:15E   | Q4:15E   | 2015E    | 2016E    | 2017E    | 2018E    | 2019E    | 2020E  |
|---|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Revenues                                |        |          |          |          |          |          |          |          |          |          |          |        |
| Plazomicin US sales                     |        |          |          |          |          |          |          |          |          |          | 70.0     | 115.8  |
| Plazomicin EU royalties (20%)           |        |          |          |          |          |          |          |          |          |          | 3.3      | 10.1   |
| Contract revenue                        | 18.5   | 20.0     | 5.8      | 5.8      | 5.8      | 5.8      | 23.2     | 21.2     | 40.0     | 41.3     |          |        |
| Total revenues                          | 18.5   | 20.0     | 5.8      | 5.8      | 5.8      | 5.8      | 23.2     | 21.2     | 40.0     | 41.3     | 73.3     | 125.9  |
| Expenses                                |        |          |          |          |          |          |          |          |          |          |          |        |
| COGS                                    |        |          |          |          |          |          |          |          |          |          | 8.3      | 14.4   |
| R&D                                     | 23.5   | 30.1     | 6.4      | 6.7      | 7.0      | 7.4      | 27.4     | 30.2     | 33.2     | 53.5     | 38.0     | 49.1   |
| G&A                                     | 7.0    | 9.6      | 2.6      | 2.6      | 2.7      | 2.7      | 10.6     | 11.1     | 17.0     | 50.0     | 55.0     | 57.8   |
| Total operating expenses                | 30.5   | 39.8     | 8.9      | 9.3      | 9.7      | 10.1     | 38.1     | 43.2     | 62.7     | 103.5    | 101.3    | 121.3  |
| Operating income (loss)                 | (12.0) | (19.8)   | (3.1)    | (3.5)    | (3.9)    | (4.3)    | (14.9)   | (22.0)   | (22.7)   | (62.3)   | (28.1)   | 4.6    |
| Total Other Income (Expense)            | (1.1)  | (0.4)    | (0.0)    | 0.1      | 0.1      | 0.1      | 0.3      | 0.4      | 0.4      | 0.5      | 0.5      | 0.5    |
| Pre Tax Income                          | (13.1) | (20.2)   | (3.2)    | (3.4)    | (3.8)    | (4.2)    | (14.6)   | (21.6)   | (22.3)   | (61.8)   | (27.6)   | 5.1    |
| Income tax expense (benefit)            |        |          |          |          |          |          |          |          |          |          |          |        |
| Net Income                              | (13.1) | (20.2)   | (3.2)    | (3.4)    | (3.8)    | (4.2)    | (14.6)   | (21.6)   | (22.3)   | (61.8)   | (27.6)   | 5.1    |
|   |        |          |          |          |          |          |          |          |          |          |          |        |
| EPS - diluted (proforma)                |        | (\$1.42) | (\$0.18) | (\$0.19) | (\$0.21) | (\$0.23) | (\$0.81) | (\$0.92) | (\$0.93) | (\$2.56) | (\$1.14) | \$0.19 |
| Shares outstanding - diluted (proforma) |        | 14.21    | 17.96    | 18.05    | 18.14    | 18.23    | 18.09    | 23.49    | 23.97    | 24.09    | 24.21    | 26.41  |

Source: Company data, Credit Suisse estimates

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# Companies Mentioned (Price as of 16-Mar-2015)

Achaogen (AKAO.OQ, \$10.05, UNDERPERFORM, TP \$13.0)

# Disclosure Appendix

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# 3-Year Price and Rating History for Achaogen (AKAO.OQ)

| AKAO.OQ   | Closing Price | Target Price |        |
|-----------|---------------|--------------|--------|
| Date      | (US\$)        | (US\$)       | Rating |
| 07-Apr-14 | 12.89         | 22.00        | 0 *    |
| 02-Mar-15 | 10.82         | 13.00        | U      |

<sup>\*</sup> Asterisk signifies initiation or assumption of coverage.



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| Underperform/Sell* | 15%                 | (44% banking clients)        |
| Restricted         | 3%                  |                              |

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Price Target: (12 months) for Achaogen (AKAO.OQ)

Method: Our \$13 target is based on a 65% probability of success for plazomicin, approximately \$458M in peak sales, and an ex-US partner. Our estimates could prove conservative on price, penetration, market size, and the economics of the ex-US deal.

Risks to our \$13 target are (1) sooner than expected efficacy data in the "supportive" Phase 2 or pivotal Phase 3 study, (2) rapid increase in the spread of CRE in the developed world, and (3) competitive product for CRE fails to reach the market ahead of or at the same time as plazomicin.

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When you purchase non-listed Japanese fixed income securities (Japanese government bonds, Japanese municipal bonds, Japanese government guaranteed bonds, Japanese corporate bonds) from CS as a seller, you will be requested to pay the purchase price only.