**OUTPERFORM** 

Reason for report: **EARNINGS** 

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(NASDAQ:KIN)

# KINDRED BIOSCIENCES, INC.

Post-2Q14 Focus on Major Catalyst CereKin Pivotal Top-line Data **Next Week** 

- Bottom Line: KIN reported a 2Q14 EPS of (\$0.42), lower than our estimates of (\$0.34) and the Street of (\$0.35) as the company continues to advance its pipeline and remains on schedule for key pivotal data readouts. Despite higher-than-expected operating expenditures and EPS loss versus our ests, the focus remains on unblinding of the first pivotal trial of CereKin (diacerein) for treatment of osteoarthritis in canines scheduled to report top-line results this coming week of August 18. We estimate an 85% probability of success for CereKin and model peak sales of \$112M in 2022. Pivotal registrational studies for AtoKin in atopic dermatitis and SentiKin in post-operative pain both are expected to read out by year-end 2014. We believe KIN mgmt's aggressive pipeline advancement with two or more add'l assets poised to move into proof-ofconcept clinical studies has a strong chance of seeing its first validation with the unblinding of the CereKin study. We maintain our OP rating based on a probability-derived DCF price target of \$29/shr.
- CereKin (IL-1 Inhibitor) poised to unblind next week, strong chance of 1st major validation of KIN model. We remain positive on next catalyst / inflection point for CereKin, oral chewable diacerein, in treating canine osteoarthritis pain and inflammation, perhaps the most important derisking event for KIN's model. Main source of differentiation will be in safety and efficacy vs NSAIDs commonly associated with toxicities of the lower GI tract(diarrhea) and requiring kidney / liver function monitoring. Clinical study is powered to 90% to detect a 25% difference between placebo and CereKin treatment arm at 8 weeks with a p-value < 0.025 needed for statistical significance due to two doses being studied. KIN submitted the NADA technical section and final package is on track to complete by year end, positioning CereKin for 4Q15 approval with 12-14 months for review. If CereKin fails despite our optimistic views, we would expect shares to trade down at least \$4-5/shr to \$10-12/shr. While our DCF-based price target would be reduced to \$21/shr implying an attractive investment, we expect CereKin failure would have a significant negative impact on investor sentiment, with many likely placing a lower value on AtoKin and SentiKin successes.
- Small molecule and biologic pipeline expected to position KIN for 2 or more product launches annually. KIN highlighted completion of pharmacokinetic studies for post-operative pain and stimulation of appetite in cats in addition to fever in horses, mentioned for the 1st time. KIN-007, a BTK inhibitor for lymphoma is currently on hold given its short half-life; pro-motility agent KIN-006 is being investigated for a more potent molecule. Management continues to build a biologics team, with fully

| •               |                 | ,                           |
|-----------------|-----------------|-----------------------------|
| S&P 600 Health  | Care Index:     | 1,298.82                    |
| Price:          |                 | \$15.82                     |
| Price Target:   |                 | \$29.00                     |
| Methodology:    | DCF, 12% discou | nt rate, 2% terminal growth |
| 52 Week High:   |                 | \$26.99                     |
| 52 Week Low:    |                 | \$8.75                      |
| Shares Outstand | ling (mil):     | 10.2                        |

**Key Stats:** 

Shares Outstanding (mil): 19.2 Market Capitalization (mil): \$303.7 Book Value/Share: \$0.00 Cash Per Share: \$5.62 Dividend (ann): NA Est LT EPS Growth: NM



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|-----------------|-----------|------------|-------|-------|---------------------|-----------|-----------|----------|----------|----------|-----|
| Dec Yr          | 1Q        | 2Q         | 3Q    | 4Q    | FY Rev              | 1Q        | 2Q        | 3Q       | 4Q       | FY EPS   | P/E |
| 2013A           |           |            |       |       | 0.0                 |           |           |          |          | (\$1.13) | NM  |
| 2014E - New     | 0.0A      | 0.0A       | 0.0   | 0.0   | 0.0                 | (\$0.38)A | (\$0.42)A | (\$0.40) | (\$0.51) | (\$1.72) | NM  |
| 2014E - Old     | 0.0A      | 0.0A       | 0.0   | 0.0   | 0.0                 | (\$0.38)A | (\$0.34)  | (\$0.40) | (\$0.51) | (\$1.63) | NM  |
| 2015E - New     | 0.0       | 0.0        | \$0.1 | \$1.6 | \$1.7               | (\$0.55)  | (\$0.70)  | (\$0.93) | (\$1.01) | (\$3.20) | NM  |
| 2015E - Old     | 0.0       | 0.0        | \$0.1 | \$1.6 | \$1.7               | (\$0.55)  | (\$0.69)  | (\$0.92) | (\$1.00) | (\$3.16) | NM  |
| 2016E - New     |           |            |       |       | \$55.6              | ļ         |           |          |          | (\$2.81) | NM  |
| 2016E - Old     |           |            |       |       | \$55.6              | ļ         |           |          |          | (\$2.78) | NM  |

Source: Company Information and Leerink Partners LLC Research

Revenues (\$ 'MM); GAAP EPS; IPO closed 12/17/17; secondary closed 4/8/14



### **INVESTMENT THESIS**

We rate KIN Outperform. KIN is a development stage biopharmaceutical company exclusively focused on bringing novel therapies for the treatment of pets (dogs, cats, & horses) to market. With three products in pivotal studies poised to read out before the end of 2014, an additional 7 products in development, and some further 30+ potential products identified, KIN is well-positioned to become a leader in the multi-billion dollar pet therapeutics market. Our DCF-based price target for KIN of \$29/shr assumes an 85% probability of technical success for CereKin, AtoKin, & SentiKin.

#### **CHANGES TO 2014-2022 MODEL FORECASTS**

(Revenues in 000s)

|            | Total Revenue Forecasts |              |          |           |           |           |           |           |           |
|------------|-------------------------|--------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
|            | 2014E                   | 2015E        | 2016E    | 2017E     | 2018E     | 2019E     | 2020E     | 2021E     | 2022E     |
| New        | \$0                     | \$1,740      | \$55,628 | \$132,148 | \$205,639 | \$294,527 | \$380,246 | \$433,068 | \$473,209 |
| Old        | <u>0</u>                | <u>1,740</u> | 55,628   | 132,148   | 205,639   | 294,527   | 380,246   | 433,068   | 473,209   |
| Difference | \$0                     | \$0          | \$0      | \$0       | \$0       | \$0       | \$0       | \$0       | \$0       |

|            | Total Adjusted EPS Forecasts |                 |                 |                 |               |               |               |               |               |
|------------|------------------------------|-----------------|-----------------|-----------------|---------------|---------------|---------------|---------------|---------------|
|            | 2014E                        | 2015E           | 2016E           | 2017E           | 2018E         | 2019E         | 2020E         | 2021E         | 2022E         |
| New        | (\$1.72)                     | (\$3.20)        | (\$2.81)        | (\$1.09)        | \$0.04        | \$2.48        | \$4.31        | \$5.08        | \$5.66        |
| Old        | <u>(\$1.63)</u>              | <u>(\$3.16)</u> | <u>(\$2.78)</u> | <u>(\$1.07)</u> | <u>\$0.04</u> | <u>\$2.91</u> | <u>\$4.24</u> | <u>\$5.00</u> | <u>\$5.58</u> |
| Difference | (\$0.09)                     | (\$0.04)        | (\$0.03)        | (\$0.02)        | \$0.00        | (\$0.43)      | \$0.07        | \$0.08        | \$0.08        |

Source: Company Information and Leerink Partners LLC Research

# **P&L Forecast Changes**

(Shares Outstanding in 000s)

|            | Tax Rate Forecasts |       |       |       |              |               |             |              |              |  |
|------------|--------------------|-------|-------|-------|--------------|---------------|-------------|--------------|--------------|--|
|            | 2014E              | 2015E | 2016E | 2017E | 2018E        | 2019E         | 2020E       | 2021E        | 2022E        |  |
| New        | 0.0%               | 0.0%  | 0.0%  | 0.0%  | -1.3%        | -0.1%         | 5.3%        | 11.3%        | 14.4%        |  |
| Old        | 0.0%               | 0.0%  | 0.0%  | 0.0%  | <u>-1.3%</u> | <u>-18.9%</u> | <u>5.5%</u> | <u>11.5%</u> | <u>14.6%</u> |  |
| Difference | 0.0%               | 0.0%  | 0.0%  | 0.0%  | 0.0%         | 18.8%         | -0.2%       | -0.2%        | -0.2%        |  |

|            |               |        | Total Share | es Outstan | ding Forec | asts   |        |        |        |
|------------|---------------|--------|-------------|------------|------------|--------|--------|--------|--------|
|            | 2014E         | 2015E  | 2016E       | 2017E      | 2018E      | 2019E  | 2020E  | 2021E  | 2022E  |
| New        | 18,625        | 19,426 | 19,426      | 19,426     | 19,426     | 19,426 | 19,426 | 19,426 | 19,426 |
| Old        | <u>18,810</u> | 19,672 | 19,672      | 19,672     | 19,672     | 19,672 | 19,672 | 19,672 | 19,672 |
| Difference | (185)         | (246)  | (246)       | (246)      | (246)      | (246)  | (246)  | (246)  | (246)  |

Source: Company Information and Leerink Partners LLC Research



#### **VALUATION**

We value KIN at \$29/share. Our price target is based on our DCF valuation, which assumes a 12% discount rate on sales and profits through 2022E and applying a 2% terminal growth rate. This equates to 14x 2020E EPS of \$4.31 discounted back 5 years at a 15% discount rate. Our analysis of a wide range of potential comparable companies suggests a price range from \$27/shr (animal health comps excluding Aratana) to \$48/shr (small biotech comps) on 2018 consensus sales forecasts.

#### **RISKS TO VALUATION**

Kindred is a late stage pet therapeutics company with no revenues and clinical assets.

- Clinical and Regulatory Risk: its success is dependent on the clinical and regulatory outcome
  of its pipeline assets where positive data and approvability are not assured.
- Commercial Risk: KIN plans to independently sell its products in the US, which will require significant capital, effort, and expertise that still needs to be developed for its 2015 launches.
- Competitive Landscape: Given limited IP protection and lower regulatory hurdles in pet therapeutics, KIN may face intensifying competition either from new product entrants or from generics.
- Financing Risk: Although Kindred has completed a secondary raise and currently has >\$100M of cash on the balance sheet, the company may need to raise additional capital to fund additional clinical development or to complete product acquisitions before becoming substantially cash flow positive, possibly diluting existing shareholders.

Kindred - Income Statement Analysis 2013-2022E

|  |          |          |          |          |          |              |          |          |          |          |              |          |          |         |         |             |         |         | CAGR    |
|--|----------|----------|----------|----------|----------|--------------|----------|----------|----------|----------|--------------|----------|----------|---------|---------|-------------|---------|---------|---------|
| (Year Ended December 31)                       | 2013     | 1Q14A    | 2Q14A    | 3Q14E    | 4Q14E    | 2014E        | 1Q15E    | 2Q15E    | 3Q15E    | 4Q15E    | 2015E        | 2016E    | 2017E    | 2018E   | 2019E   | 2020E       | 2021E   | 2022E   | '17E-22 |
| Revenue<br>Canine (Dogs) Rx Medicines          |          |          |          |          |          |              |          |          | 129      | 1,610    | 1,740        | 55,482   | 127.488  | 189,495 | 260,930 | 330,698     | 366.895 | 397.332 | 26%     |
| Carime (Dogs) RX Medicines<br>CereKin          |          | -        | •        | •        | -        |              | -        | -        | 129      | 522      | 651          | 23,192   | 47,366   | 66,163  | 89,882  | 103,474     | 107,693 | 111,631 | 19%     |
| AtoKin   |          | -        | -        | -        | -        |              | -        | -        | 129      | 1.088    | 1.088        | 23,192   | 39.760   | 53,811  | 66,177  | 79,810      | 82,983  | 85,969  | 17%     |
| SentiKin                                       |          | -        | -        | -        | -        |              | -        | -        | -        | 1,000    | 1,000        | 9,195    | 27,862   | 37,521  | 47,370  | 57,413      | 65,719  | 72,232  | 21%     |
| Other small molecule                           |          | -        | -        | -        | -        |              | -        | -        | -        | -        | -            | 9,195    | 12,500   | 25,000  | 40,000  | 55,000      | 65,000  | 75,000  | 43%     |
| Other small molecule Other biologics           |          |          |          |          |          |              |          |          |          |          |              |          | 12,500   | 7,000   | 17,500  | 35,000      | 45,500  | 52,500  | NM      |
| Equine (Horses) Rx Medicines                   |          |          |          |          |          |              |          |          |          |          |              |          |          | 5,435   | 17,500  | 27,630      | 38,395  | 45,058  | NM      |
| CereKin  |          |          |          |          |          |              |          |          |          |          |              |          |          | 3,435   | 13,399  | 21,145      | 30,754  | 36,238  | NM      |
|  |          | -        | -        | -        | -        |              | -        | -        | -        | -        | -            | -        | -        |         |         |             |         |         | NM      |
| SentiKin                                       | -        | -        | -        | -        | -        |              | -        | -        | -        | -        | -            | -        | -        | 2,119   | 4,280   | 6,484       | 7,641   | 8,819   | INIVI   |
| Other small molecule                           |          |          |          |          |          |              |          |          |          |          |              |          |          |         |         |             |         |         |         |
| Other biologics                                |          |          |          |          |          |              |          |          |          |          |              |          |          |         |         |             |         |         |         |
| Feline (Cats) Rx Medicines<br>KIND-006         |          |          |          |          |          |              |          |          |          |          |              |          |          |         |         |             |         |         |         |
|  |          |          |          |          |          |              |          |          |          |          |              |          |          |         |         |             |         |         |         |
| Other small molecule                           |          |          |          |          |          |              |          |          |          |          |              |          |          |         |         |             |         |         |         |
| Other biologics                                |          |          |          |          |          |              |          |          |          |          |              |          | 4.000    | 40 700  | 45.040  |             | 07.770  |         | 400/    |
| EU Royalties (12% on EU sales)                 |          | -        | -        | -        | -        |              | -        | -        | -        | -        |              | 146      | 4,660    | 10,709  | 15,918  | 21,918      | 27,779  | 30,819  | 46%     |
| Total Revenue                                  |          | -        | -        | •        | -        |              | -        | -        | 129      | 1,610    | 1,740        | 55,628   | 132,148  | 205,639 | 294,527 | 380,246     | 433,068 | 473,209 | 29%     |
| Growth (% y/y)                                 |          |          |          |          |          |              |          |          |          |          |              |          | 138%     | 56%     | 43%     | 29%         | 14%     | 9%      |         |
| cogs   | -        | -        | -        | -        | -        |              | -        | -        | 19       | 403      | 422          | 27,814   | 62,110   | 90,481  | 120,756 | 152,098     | 173,227 | 189,284 | 25%     |
| COGS (% of sales)                              |          |          |          |          |          |              |          |          | 15%      | 25%      | 24%          | 50%      | 47%      | 44%     | 41%     | 40%         | 40%     | 40%     |         |
| Gross Profit                                   |          | -        | -        | -        | -        |              | -        | -        | 110      | 1,208    | 1,318        | 27,814   | 70,039   | 115,158 | 173,771 | 228,147     | 259,841 | 283,925 | 32%     |
|  |          |          |          |          |          | nm           |          |          | 85%      | 75%      | 76%          | 50%      | 53%      | 56%     | 59%     | 60%         | 60%     | 60%     |         |
| SG&A   | 1.079    | 1.679    | 2.499    | 2,300    | 3.500    | 9,978        | 4.250    | 6.625    | 11,275   | 13,375   | 35,525       | 50.300   | 54,150   | 69,950  | 74.450  | 81,050      | 85,750  | 89,350  | 11%     |
| SG&A (% of sales)                              | ,, ,     |          |          | ,        | .,       | nm           | ,        | -,-      | nm       | nm       | nm           | 90%      | 41%      | 34%     | 25%     | 21%         | 20%     | 19%     |         |
| R&D  | 3,141    | 4.498    | 5,639    | 5,500    | 6,500    | 22,137       | 6,500    | 7,000    | 7,000    | 7,500    | 28,000       | 32,200   | 37,030   | 44,436  | 51.101  | 58,767      | 62,880  | 66,024  | 12%     |
| R&D (% of sales)                               | 3,141    | 4,430    | 3,039    | 3,300    | 0,300    | 22,137<br>nm | 0,500    | 7,000    | nm       | nm       | 20,000<br>nm | 58%      | 28%      | 22%     | 17%     | 15%         | 15%     | 14%     | 12 /0   |
| Operating Income                               | (4,219)  | (6,177)  | (8,138)  | (7,800)  | (10,000) | (32,115)     | (10,750) | (13,625) | (18,165) | (19,667) | (62,207)     | (54,686) | (21,141) | 772     | 48,219  | 88,331      | 111,210 | 128,551 | NM      |
| Operating income Operating Margin (% of sales) | (4,219)  | (0,177)  | (0,130)  | (7,800)  | (10,000) | (32,115)     | (10,750) | (13,625) | (10,100) | (19,667) | (62,207)     | (34,000) | (21,141) | 0.4%    | 16.4%   | 23.2%       | 25.7%   | 27.2%   | INIVI   |
| Operating Margin (% or sales)                  |          |          |          |          |          |              |          |          |          |          |              |          |          | 0.4%    | 10.4%   | 23.2%       | 23.7%   | 21.270  |         |
| Total Other Income/ (Expense)                  | 6        | 9        | 28       | 22       | 22       | 90           | 21       | 21       | 21       | 21       | 84           | 38       | 10       | 10      | 46      | 119         | 214     | 323     |         |
| Pre-tax Income                                 | (4,213)  | (6,168)  | (8,110)  | (7,778)  | (9,978)  | (32,025)     | (10,729) | (13,604) | (18,144) | (19,646) | (62,123)     | (54,648) | (21,131) | 782     | 48,265  | 88,450      | 111,424 | 128,874 |         |
| Change in Unrealized Gain / loss               |          |          | (\$14)   |          |          |              |          |          |          |          |              |          |          |         |         |             |         |         |         |
| Taxes  |          |          | (\$14)   |          |          |              |          |          |          |          |              |          |          | 0       | 0       | 4,785       | 12,793  | 18,862  | NM      |
| Rate (% of pre-tax income)                     |          |          |          |          |          |              |          |          |          |          |              |          | 0%       | -1%     | 0%      | 4,785<br>5% | 12,793  | 18,862  | IVIVI   |
| rate (% or pre-tax income)                     |          |          |          |          |          |              |          |          |          |          |              |          | 0%       | -1%     | 0%      | 5%          | 11%     | 14%     |         |
| Net Income                                     | (4,213)  | (6,168)  | (8,124)  | (7,778)  | (9,978)  | (32,025)     | (10,729) | (13.604) | (18,144) | (19,646) | (62,123)     | (54.648) | (21,131) | 782     | 48.265  | 83,664      | 98,631  | 110,011 | NM      |
| EPS  | (\$1.13) | (\$0.38) | (\$0.42) | (\$0.40) | (\$0.51) | (\$1.72)     | (\$0.55) | (\$0.70) | (\$0.93) | (\$1.01) | (\$3.20)     | (\$2.81) | (\$1.09) | \$0.04  | \$2.48  | \$4.31      | \$5.08  | \$5.66  | NM      |
| Average Shares Outstanding                     | 3,732    | 16.222   | 19,426   | 19,426   | 19,426   | 18,625       | 19,426   | 19,426   | 19,426   | 19,426   | 19,426       | 19,426   | 19,426   | 19,426  | 19,426  | 19,426      | 19,426  | 19.426  |         |

Source: Leerink Partners and Company Reports

Kindred - Income Statement Analysis 2013-2022E

| (Year Ended December 31)         | 2013     | 2014E    | 2015E    | 2016E    | 2017E    | 2018E   | 2019E   | 2020E   | 2021E   | 2022E   | CAGR<br>'17E-22E |
|----------------------------------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|------------------|
| Revenue                          |          |          |          |          |          |         |         |         |         |         |                  |
| Canine (Dogs) Rx Medicines       | -        | -        | 1,740    | 55,482   | 127,488  | 189,495 | 260,930 | 330,698 | 366,895 | 397,332 | 26%              |
| CereKin                          | -        | -        | 651      | 23,192   | 47,366   | 66,163  | 89,882  | 103,474 | 107,693 | 111,631 | 19%              |
| AtoKin                           | -        | -        | 1,088    | 23,095   | 39,760   | 53,811  | 66,177  | 79,810  | 82,983  | 85,969  | 17%              |
| SentiKin                         | -        | -        | -        | 9,195    | 27,862   | 37,521  | 47,370  | 57,413  | 65,719  | 72,232  | 21%              |
| Other small molecule             |          |          |          |          | 12,500   | 25,000  | 40,000  | 55,000  | 65,000  | 75,000  | 43%              |
| Other biologics                  |          |          |          |          |          | 7,000   | 17,500  | 35,000  | 45,500  | 52,500  | NM               |
| Equine (Horses) Rx Medicines     |          |          |          |          | -        | 5,435   | 17,679  | 27,630  | 38,395  | 45,058  | NM               |
| CereKin                          | -        | -        | -        | -        | -        | 3,317   | 13,399  | 21,145  | 30,754  | 36,238  | NM               |
| SentiKin                         | -        | -        | -        | -        | -        | 2,119   | 4,280   | 6,484   | 7,641   | 8,819   | NM               |
| Other small molecule             |          |          |          |          |          |         |         |         |         |         |                  |
| Other biologics                  |          |          |          |          |          |         |         |         |         |         |                  |
| Feline (Cats) Rx Medicines       |          |          |          |          |          |         |         |         |         |         |                  |
| KIND-006                         |          |          |          |          |          |         |         |         |         |         |                  |
| Other small molecule             |          |          |          |          |          |         |         |         |         |         |                  |
| Other biologics                  |          |          |          |          |          |         |         |         |         |         |                  |
| EU Royalties (12% on EU sales)   | -        | -        | -        | 146      | 4,660    | 10,709  | 15,918  | 21,918  | 27,779  | 30,819  | 46%              |
| Total Revenue                    | -        | -        | 1,740    | 55,628   | 132,148  | 205,639 | 294,527 | 380,246 | 433,068 | 473,209 | 29%              |
| Growth (% y/y)                   |          |          | ,        | ,        | 138%     | 56%     | 43%     | 29%     | 14%     | 9%      |                  |
| COGS                             | -        | -        | 422      | 27,814   | 62,110   | 90,481  | 120,756 | 152,098 | 173,227 | 189,284 | 25%              |
| COGS (% of sales)                |          |          | 24%      | 50%      | 47%      | 44%     | 41%     | 40%     | 40%     | 40%     |                  |
| Gross Profit                     | -        | -        | 1,318    | 27,814   | 70,039   | 115,158 | 173,771 | 228,147 | 259,841 | 283,925 | 32%              |
|                                  |          | nm       | 76%      | 50%      | 53%      | 56%     | 59%     | 60%     | 60%     | 60%     |                  |
| SG&A                             | 1,079    | 9,978    | 35,525   | 50,300   | 54,150   | 69,950  | 74,450  | 81,050  | 85,750  | 89,350  | 11%              |
| SG&A (% of sales)                |          | nm       | nm       | 90%      | 41%      | 34%     | 25%     | 21%     | 20%     | 19%     |                  |
| R&D                              | 3,141    | 22,137   | 28,000   | 32,200   | 37,030   | 44,436  | 51,101  | 58,767  | 62,880  | 66,024  | 12%              |
| R&D (% of sales)                 |          | nm       | nm       | 58%      | 28%      | 22%     | 17%     | 15%     | 15%     | 14%     |                  |
| Operating Income                 | (4,219)  | (32,115) | (62,207) | (54,686) | (21,141) | 772     | 48,219  | 88,331  | 111,210 | 128,551 | NM               |
| Operating Margin (% of sales)    |          |          |          |          |          | 0.4%    | 16.4%   | 23.2%   | 25.7%   | 27.2%   |                  |
| Total Other Income/ (Expense)    | 6        | 90       | 84       | 38       | 10       | 10      | 46      | 119     | 214     | 323     |                  |
| Pre-tax Income                   | (4,213)  | (32,025) | (62,123) | (54,648) | (21,131) | 782     | 48,265  | 88,450  | 111,424 | 128,874 |                  |
| Change in Unrealized Gain / loss |          |          |          |          |          |         |         |         |         |         |                  |
| Taxes                            |          |          |          |          |          | 0       | 0       | 4,785   | 12,793  | 18,862  | NM               |
| Rate (% of pre-tax income)       |          |          |          |          | 0%       | -1%     | 0%      | 5%      | 11%     | 14%     |                  |
| Net Income                       | (4,213)  | (32,025) | (62,123) | (54,648) | (21,131) | 782     | 48,265  | 83,664  | 98,631  | 110,011 | NM               |
| EPS                              | (\$1.13) | (\$1.72) | (\$3.20) | (\$2.81) | (\$1.09) | \$0.04  | \$2.48  | \$4.31  | \$5.08  | \$5.66  | NM               |
| Average Shares Outstanding       | 3,732    | 18,625   | 19,426   | 19,426   | 19,426   | 19,426  | 19,426  | 19,426  | 19,426  | 19,426  |                  |

Source: Leerink Partners and Company Reports



# Disclosures Appendix Analyst Certification

I, Seamus Fernandez, 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.

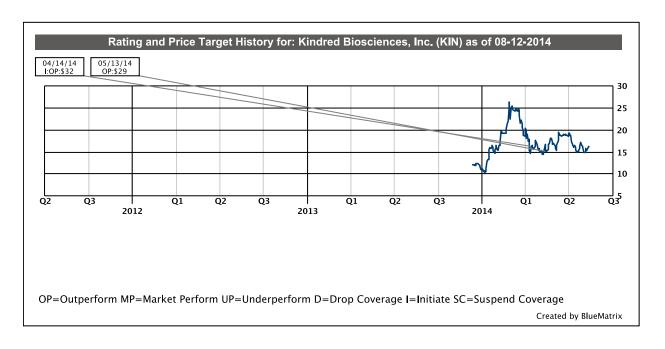
#### **Valuation**

We value KIN at \$29/share. Our price target is based on our DCF valuation, which assumes a 12% discount rate on sales and profits through 2022E and applying a 2% terminal growth rate. This equates to 14x 2020E EPS of \$4.31 discounted back 5 years at a 15% discount rate. Our analysis of a wide range of potential comparable companies suggests a price range from \$27/shr (animal health comps excluding Aratana) to \$48/shr (small biotech comps) on 2018 consensus sales forecasts.

#### Risks to Valuation

Kindred is a late stage pet therapeutics company with no revenues and clinical assets.

- · Clinical and Regulatory Risk: its success is dependent on the clinical and regulatory outcome of its pipeline assets where positive data and approvability are not assured.
- · Commercial Risk: KIN plans to independently sell its products in the US, which will require significant capital, effort, and expertise that still needs to be developed for its 2015 launches.
- · Competitive Landscape: Given limited IP protection and lower regulatory hurdles in pet therapeutics, KIN may face intensifying competition either from new product entrants or from generics.
- · Financing Risk: Although Kindred has completed a secondary raise and currently has >\$100M of cash on the balance sheet, the company may need to raise additional capital to fund additional clinical development or to complete product acquisitions before becoming substantially cash flow positive, possibly diluting existing shareholders.







| Distribution          | of Ratings/Investment Bankii | ng Services (IB) |         | erv./Past 12<br>Mos. |
|-----------------------|------------------------------|------------------|---------|----------------------|
| Rating                | Count                        | Percent          | Count   | Percent              |
| BUY [OP]<br>HOLD [MP] | 138<br>62                    | 69.00<br>31.00   | 50<br>2 | 36.20<br>3.20        |
| 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 Kindred Biosciences, Inc. .

Leerink Partners LLC makes a market in Kindred Biosciences, Inc.

Leerink Partners LLC has acted as the manager for a public offering of Kindred Biosciences, Inc. in the past 12 months.

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