## **Equity Research**

## Flash Comment



April 22, 2015 CALA-NASDAQ--Outperform (1) / V

Biotechnology

# CALA: AACR--Important CB-839 Biomarker Data Presented--Looking To ASCO/EHA Meetings For Maturing Ph. I Data

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## Sector Rating: Biotechnology, Market Weight

- \*\*On 4/21/15 we attended the American Association of Clinical Research's Metabolism Minisymposium where two preclinical abstracts for CALA's CB-839 were highlighted.
- \*\*#4710 was research in non-small cell lung cancer (NSCLC) jointly conducted by Dr. DeBerardinis' lab (a cancer metabolism expert) and MD Anderson Cancer Center. The research highlighted how sensitive Epidermal-Growth Factor Receptor (EGFR) and Kirsten rat sarcoma (KRAS) mutant (mt) NSCLC cells are to glutaminase inhibition.
- \*\*#4711 was conducted by Calithera and demonstrated how sensitive Renal clear cell cancer (RCC) and KRASmt and EGFRmt NSCLC cancers are to glutaminase inhibition, and the synergies of CB-839 with everolimus in RCC, selumetinib in KRASmt NSCLC, and erlotinib in EGFRmt NSCLC.
- \*\*Separately #1123 (Okazaki) showed synergies of CB-839 with Poly ADP-ribose polymerase inhibitors (e.g., BioMarin's PARPi, BMN-673).
- \*\*In our view CALA's combinatorial data are important as they may enable use of validated EGFR/KRAS biomarkers to identify patients more likely to respond to CB-839, potentially reducing clinical/regulatory/commercial risks.
- \*\*Recall CALA selected KRAS NSCLC and RCC as two cohorts for ongoing testing of CB-839 600mg twice-daily and CB-839/everolimus in RCC as a cohort for Ph. I(b) study.
- \*\*4/20-4/21/15 stock weakness (CALA -23% vs. S&P500's +0.6%) appears related to Agios' comments over the weekend at an AACR session where it noted it was unable to generate single-agent activity in NSCLC cell line(s) or identify biomarkers, and announced it discontinued its glutaminase inhibitor program. CALA's sell-off and using Agios' discontinued program as a read-through to CB-839's potential for failure appears unwarranted, in our view, considering: (1) CALA's identification of four biomarkers, (2) four cases of Ph. I disease stabilization at low doses (to be updated at the American Society of Clinical Oncology and European Hematology Association Meetings), (3) CB-839's well-defined clinical development program, and (4) abstracts/posters/peer-reviewed preclinical publications during 2014/2015.
- \*\*BOTTOM LINE: Additional positive data importantly identifying two potential validated biomarkers, however, overshadowed by Agios' comments. We look to ASCO/EHA Meetings to further define CB-839's promising profile and broad development program.

Calithera Biosciences, Inc. (CALA-NASDAQ) Price as of 4/21/2015: \$13.99

FY 15 EPS: \$-1.83 FY 16 EPS: \$-1.99

Please see Disclosure Appendix for rating definitions, important disclosures, and required analyst certifications.

All estimates/forecasts are as of 04/22/15 unless otherwise stated.

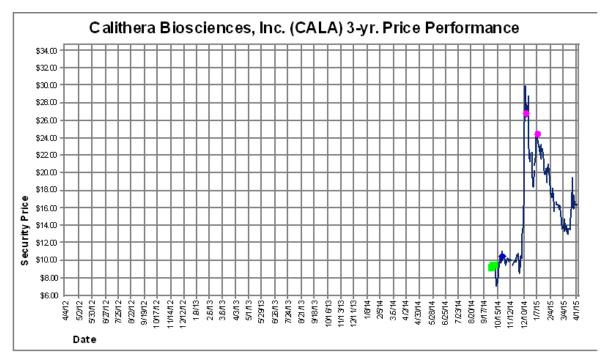
Shares Out.: 17.93 MM Market Cap.: \$250.84 MM

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	Date	Publication Price (\$)	Rating Code	Val. Rng. Low	Val. Rng. High	Close Price (\$)
•	10/3/2014		IPO at \$10.00			
	10/27/2014		Andrews			
•	10/27/2014	11.04	1	19.00	20.00	10.40
•	12/15/2014	29.85	1	50.00	55.00	26.75
•	1/7/2015	23.85	1	35.00	40.00	24.40

Source: Wells Fargo Securities, LLC estimates and Reuters data

#### Symbol Key

- Rating Down grade
- Rating Upgrade
- Valuation Range Change

## Initiation, Resumption, Drop or Suspend Analyst Change

Split Adjustment

## Rating Code Key

1 Outperform/Buy SR Suspended 2 Market Perform/Hold NR Not Rated 3 Underperform/Sell NE No Estimate

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CALA: Key risks include clinical trial failure, a safety signal for CB-839, and financing risk.

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## As of: April 22, 2015

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