



Tokai Pharmaceuticals

(TKAI-NASDAQ)

Stock Rating: Outperform Stock Price: US\$15.38 Target Price: US\$28.00 November 19, 2014 Biotechnology

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Positive Update on ARV7 Response Duration

We are attending the ENA14 meeting in Barcelona where, earlier today, Tokai pharma presented updated results from ARMOR2, a trial evaluating 12-week treatment of galeterone, a first-in-class triple androgen receptor inhibitor in castrate-resistant prostate cancer (CRPC). In seven treatment-naive subjects with the c terminal androgen receptor loss, including ARV7 identified from circulating tumor cells (CTC), six have shown maximal PSA reductions of 50% or greater with an immature median PFS of 7.3 months; the seventh patient discontinued galeterone with a non-drug-related AE approximately six weeks after initiating therapy. Of the six responders, four elected to continue treatment at the end of 12 weeks and time on treatment in the extension phase ranges from 155 to >334 days as of 10/14/14, with several responses ongoing and an immature PFS of 7.3 months. As previously noted, best response in untreated metastatic CRPC (PSA 50 after 12 weeks of treatment) was 72% while in 46 subjects failing 9-11 months of XTANDI or ZYTIGA, best ORR ranged from 47-50%. In 1H15, TKAI will initiate ARMOR3-SV, <170 subjects with metastatic CRPC progressing on androgen deprivation therapy, but XTANDI or ZYTIGA and chemotherapy naïve, and with ARV7 detected in CTC will be randomized to XTANDI (160 mg/d) or galeterone (2550mg/d) with radiographic PFS the primary endpoint.

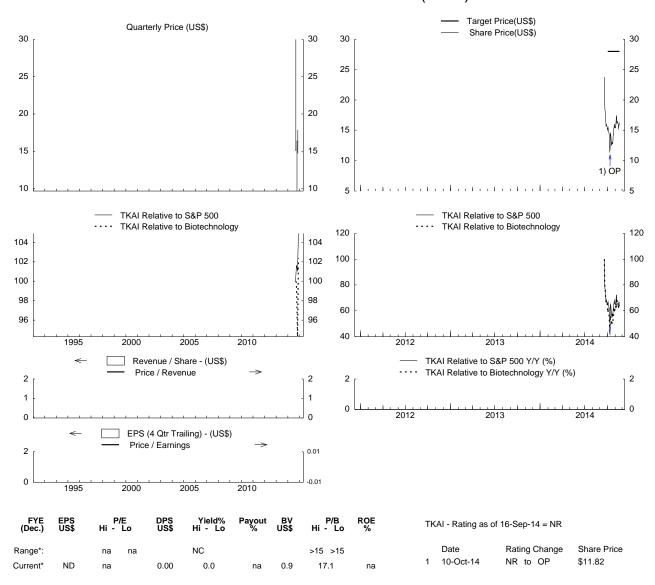
Our View:

- Duration of response in patients with ARV7 mutation is impressive with 7+ months PFS, well beyond the 2-3 months seen with approved agents in this indication.
- Updated PFS data should serve to favorably handicap likelihood of phase 3 success in ARMOR3 where galeterone will be compared head to head vs. XTANDI.
- With category sales of close to \$4 billion we believe that an ARV7 mutation rate of 12% to 30% should support a meaningful opportunity for galeterone and significant upside potential for TKAI shares.

Please refer to pages 2 to 5 for Important Disclosures, including the Analyst's Certification.



TOKAI PHARMACEUTICALS (TKAI)



Last Price (November 18, 2014): \$16.27 Sources: IHS Global Insight, Thomson Reuters, BMO Capital Markets.

^{*} Current EPS is the 4 Quarter Trailing to Q3/2014.
* Valuation metrics are based on high and low for the fiscal year.
* Range indicates the valuation range for the period presented above.





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Hold	Market Perform	52.5%	9.7%	38.5%	51.6%	42.1%	39.1%
Sell	Underperform	3.2%	5.3%	1.3%	4.5%	1.4%	4.9%

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