

#### **COMPANY UPDATE**

June 16, 2014

Stock Rating:

#### **OUTPERFORM**

12-18 mo. Price Target	\$9.00
TLOG - NASDAQ	\$5.82

3-5 Yr. EPS Gr. Rate	NA
52-Wk Range	\$14.75-\$3.84
Shares Outstanding	22.3M
Float	5.8M
Market Capitalization	\$129.7M
Avg. Daily Trading Volume	105,452
Dividend/Div Yield	NA/NM
Book Value	\$2.26
Fiscal Year Ends	Dec
2014E ROE	NA
LT Debt	\$0.0M
Preferred	\$0.0M
Common Equity	\$51M
Convertible Available	Yes

EPS Diluted	Q1	Q2	Q3	Q4	Year	Mult.
2012A					(1.52)	NM
2013A				(0.30)	(10.11)	NM
2014E	(0.24)A	(0.27)	(0.26)	(0.25)	(1.03)	NM
2015E					(1.25)	NM

HEALTHCARE/BIOTECHNOLOGY

# TetraLogic Pharmaceuticals Corporation

Birinapant Preclinical Infectious Disease Data Encouraging

#### **SUMMARY**

TetraLogic hosted a conference call to review preclinical data that shows birinapant activity in infectious disease, including hepatitis B (HBV). Importantly, birinapant appears to induce apoptosis in infected hepatocytes, and treatment resulted in a reduction in viral DNA to undetectable levels. Birinapant's novel mechanism works by targeting host cell signaling pathway, inducing apoptosis. This is very different from viral targeting, the common approach to HBV treatment. Acute elevation in liver enzyme levels (AST and ALT) returned to normal within 24-48 hours, and are mechanism related. A Phase I study of birninapant in HBV is expected to start late 2014

#### **KEY POINTS**

- An investigator in the studies, Dr. Marc Pellegrini of the Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, participated on the call. Dr. Pellegrini's lab is focused on apoptosis and the activation of apoptosis in a range of diseases. He is not aware of other SMAC mimetics in this setting.
- Transient increases in AST/ALT appear to be correlated with the dying of infected hepatocytes. We believe these enzymes confirm the mechanism of action and do not view them as having negative consequences. The substantial regenerative capacity of the liver will quickly restore the enzymes to normal levels.
- A Phase I study of birinapant in patients with chronic HBV infection is expected to start late 2014. The company anticipates the study will be completed in mid-2015. This study will serve as a key proof-of-concept for birinapant in infectious disease.
- We maintain our Outperform rating on TLOG.

#### Stock Price Performance

# 1 Year Price History for TLOG 15 12 9 6 3 2014 Created by BlueMatrix

#### **Company Description**

TetraLogic is a clinical-stage biopharmaceutical company focused on the discovery and development of oncology drugs, including SMAC-mimetics and topical HDACs. The lead candidate, birinapant is an anti-cancer SMAC-mimetic designed to enable TNF-activated apoptosis.

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**Exhibit 1: Milestone Table** 

Date	Stage	Milestone
Birinapant in	Blood Cancers	
mid-'14	Phase II	Commence randomized birinapant+azacitidine 1st-line higher risk MDS study
1Q15	Phase II	Data readout from randomized birinapant+azacitidine MDS study
Birinapant in	Solid Tumors	
3Q14	Phase I/II	Data readout from birinapant+conatumumab ovarian cancer study
2015	Phase II	Start birinapant+irinotecan randomized colorectal study (pending funding)
Birinapant in	Viral Infection	s
4Q14	Phase I	Commence hepatitis B study
mid-'15	Phase I	Data readout from hepatitis B study
SHAPE in CTC	L	
4Q14	Phase II	Commence a 60-patient Phase II study in CTCL
4Q15	Phase I	Data readout from Phase II Study

Source: Company Reports; Oppenheimer & Co.

Exhibit 2: TetraLogic Pharmaceuticals Income Statement

Weighted average common shares outstanding	10,629	2,296	22,249	22,424	24,999	27,574	24,312	27,949
Basic and diluted net loss per share	(\$1.52)	(\$10.11)	(\$0.24)	(\$0.27)	(\$0.26)	(\$0.25)	(\$1.03)	(\$1.25)
Net loss attributable to common stockholders	(19,653)	(23,200)	(5,334)	(6,000)	(6,600)	(7,000)	(24,934)	(35,023)
Cumulative preferred stock dividends	(3,453)	(3,250)	-	-	-	-	-	-
Net loss and comprehensive loss	(16,199)	(19,950)	(5,334)	(6,000)	(6,600)	(7,000)	(24,934)	(35,023)
Interest expense	(73)	(2,767)	-	-	-	-	-	-
Interest and other income	3	1	12	-	-	-	12	12
Change in fair value of derivative liabilities	43	807	285	-	-	-	285	285
Operating income (expense)	(16,172)	(17,991)	(5,631)	(6,000)	(6,600)	(7,000)	(25,231)	(35,319)
Total Operating Expenses	16,172	17,991	5,631	6,000	6,600	7,000	25,231	35,319
Research and development	12,096	9,523	3,123	3,500	4,000	4,500	15,123	22,684
General and administration	4,076	8,467	2,508	2,500	2,600	2,500	10,108	12,635
Operating Expenses:								
Total Revenue	-	-	-	-	-	-	-	-
Grant revenue	-	-	-	-	-	-	-	-
Collaboration revenue	-	-	-	-	-	-	-	-
Revenue:								
in \$000s, except per share amount	FY12A	FY13A	1QA	2QE	3QE	4QE	FY14E	FY15E
FY Ending Dec 31st	E)/40A	E)/40A	Mar-14	Jun-14	Sep-14	Dec-14	E)/4.4E	E)/45E

Source: Company reports; Oppenheimer & Co.



#### **Investment Thesis**

TetraLogic Pharmaceuticals Corporation is a clinical-stage biopharmaceutical company focusing on the discovery and development of SMAC-mimetics for the treatment of cancers. The company's lead candidate, birinapant, is being developed for the treatment of myelodysplastic syndromes (MDS), colorectal cancer (CRC), ovarian cancer, and hepatitis B. The company recently added a novel topical HDAC drug to its pipeline via the acquisition of Shape Pharmaceuticals.

#### **Price Target Calculation**

Our \$9/share 12- to 18-month price target is based on the assumption TetraLogic will advance birinapant into Phase II testing for myelodysplastic syndromes (MDS) and colorectal cancer (CRC). We also assume several other ongoing birinapant studies, including a Phase I/II study in ovarian cancer and a Phase I study in hepatitis B. As such, we looked at the valuation of comparable companies that have differentiated assets in a similar stage of development. Based on the comparison to these companies and an anticipated fully diluted share count of 31M shares at the end of 2014 (this includes a possible financing round and all outstanding options/warrants), and the median comparables valuation of \$286M, we arrive at a price target of \$9/share for TLOG.

#### **Key Risks to Price Target**

Key risks include clinical trial risk, regulatory risk, competitive risk, partnership risk, reimbursement risk, lack of performance/trading history and liquidity and small-capitalization risk.

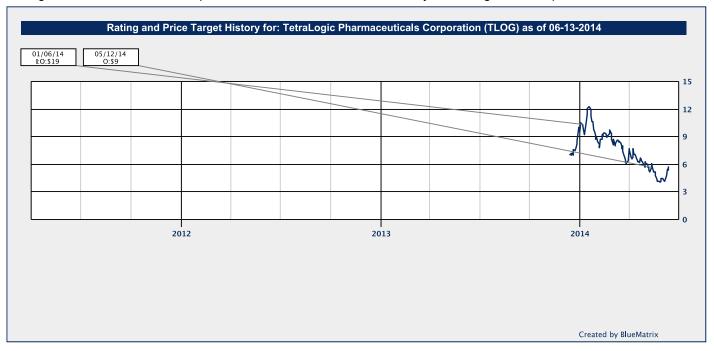
SMAC Second mitochondria-derived activator of caspases.

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Distribution of Rating				
			IB Serv/Pas	st 12 Mos.
Rating	Count	Percent	Count	Percent
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PERFORM [P]	280	47.22	100	35.71
UNDERPERFORM [U]	8	1.35	2	25.00

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