

COMPANY UPDATE

July 21, 2014

Stock Rating:

PERFORM

12-18 mo. Price Target	NA
KPTI - NASDAQ	\$34.10

3-5 Yr. EPS Gr. Rate	NM
52-Wk Range	\$47.98-\$15.50
Shares Outstanding	29.8M
Float	8.4M
Market Capitalization	\$1,098.4M
Avg. Daily Trading Volume	438,213
Dividend/Div Yield	NA/NM
Book Value	\$4.87
Fiscal Year Ends	Dec
2014E ROE	NM
LT Debt	NA
Preferred	NA
Common Equity	\$144M
Convertible Available	No

EPS Diluted	Q1	Q2	Q3	Q4	Year	Mult.
2013A	(2.52)	(2.97)	(3.66)	(2.00)	(5.59)	NM
2014E	(0.46)A	(0.50)	(0.49)	(0.57)	(2.03)	NM
2015E					(3.04)	NM
Reflects	1:3.3 rev	erse sta	ock split	t effectiv	re Octob	per
2013.						

Revenue (\$/mil)	Q1	Q2	Q3	Q4	Year	Mult.
2013A	0.2	0.1	0.0	0.0	0.4	NM
2014E	0.2A	0.2	0.2	0.2	8.0	NM
2015E					2.0	NM

HEALTHCARE/BIOTECHNOLOGY

Karyopharm Therapeutics

2H14 Data Roadmap

SUMMARY

The 2H14 data disclosure plan for Selinexor's Phase 1 program has been a key discussion point for investors following our July 7 assumption of coverage note. Updates on the R/R myeloma study (Selinexor + dexamethasone) are of particular interest given the stock's recent ~95% move on EHA data showing a 50% ORR in eight myeloma patients dosed at 45 mg/m2. We expect the next myeloma update at ASH 2014 (there had been speculation of ESMO) for two more patients at 45 mg/m2 and 10 new patients at 60 mg/m2, plus duration updates on the initial eight. For ESMO, we expect incremental Phase 1 updates on solid tumors (i.e. sarcoma, prostate, gynecologic).

KEY POINTS

- **Big Myeloma Update: ASH 2014.** Data in 12 additional patients will be key to assessing reliability of the early 50% ORR, particularly since response rates for dexamethasone alone can range from ~30-60%. Moreover, the ~33% higher 60 mg/m2 Selinexor dose should provide important clues on any incremental contribution to the response rate over dexamethasone.
- **Dexamethasone Dosing Clarification.** There may be some confusion among investors regarding dexamethasone dosing in the Phase 1. We understand patients could receive 4-8 mg dexamethasone PRN for supportive care (anorexia) in the single-agent cohort, but not in the low-dose dex combo arm. Therefore, the 50% ORR was unlikely driven by atypically high dex doses.
- ESMO, then ASH for Solid Tumors. We expect some solid tumor updates at ESMO and we are specifically interested in PFS in R/R sarcoma (~4 months by our prior analysis) where we assume ~30% peak share. We expect a bigger solid tumor update at Karyopharm's ASH investor event (outside the context of ASH abstracts).
- Investigator-Sponsored Trials to Provide More Myeloma Data Points. Three combination ISPs in myeloma (+ Kyprolis 2H14 start, + Pomalyst/dex 2H14 start, + Doxil underway) could provide important insights into Selinexor's potential with approved agents, especially given recent interest in the dex combo data. See Exhibit 1 inside for recent ISPs posted to clinical trials.gov and planned.

Stock Price Performance

1 Year Price History for KPTI 48 40 32 24 16 2014 Created by Blanktario

Company Description

Karyopharm Therapeutics is a clinicalstage biotechnology company focused on discovery and development of novel first-in-class drugs directed against nuclear transport targets for the treatment of blood cancers and solid tumors.

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Exhibit 1
Announced and Planned Investigator-Sponsored Trials of Selinexor

Academic Sponsor	Indication	Selinexor Combined with "X"	Phase	Expected Completion Date	Clinicaltrials.gov Identifier
Barbara Ann Karmanos Cancer Institute	Metastatic Pancreatic Cancer	Gemcitabine + Abraxane	1/2	3Q15	NCT02178436
H.Lee Moffitt Cancer Center	R/R Multiple Myeloma	Pegylated Liposomal Doxorubicin	1/2	1Q16	NCT02186834
National University Hospital, Singapore	Solid tumors (Asian patients)	NA	1	1Q17	NCT02078349
Sheba Medical Center	Neoadjuvant Locally Advanced Rectal Cancer	Standard Chemoradiation	1	3Q17	NCT02137356
Ohio State University Comprehensive Cancer Center	R/R Acute Myeloid Leukemia	Decitabine	1	3Q17	NCT02093403
Ohio State University Comprehensive Cancer Center	Unresectable melanoma	NA	1	3Q17	NCT02120222
Dana Farber Cancer Institute	R/R Childhood ALL and AML	NA	1	2Q18	NCT02091245
TBD	R/R Multiple Myeloma	Kyprolis	TBD	TBD	Not Yet Listed
TBD	R/R Multiple Myeloma	Pomalyst + dex	TBD	TBD	Not Yet Listed
TBD	Colon & Lung	Irinotecan	TBD	TBD	Not Yet Listed
TBD	Gynecologic cancers	Paclitaxel + carboplatin	TBD	TBD	Not Yet Listed
TBD	R/R Acute Myeloid Leukemia	Nexavar	TBD	TBD	Not Yet Listed
TBD	R/R Acute Myeloid Leukemia	Low dose Ara-C	TBD	TBD	Not Yet Listed
TBD	R/R CLL	Imbruvica	TBD	TBD	Not Yet Listed
TBD	R/R DLBCL	R-CHOP	TBD	TBD	Not Yet Listed
Sources: Karyopharm p	resentations, Oppenheimer F	Research.			

PPENHEIMER

Investment Thesis

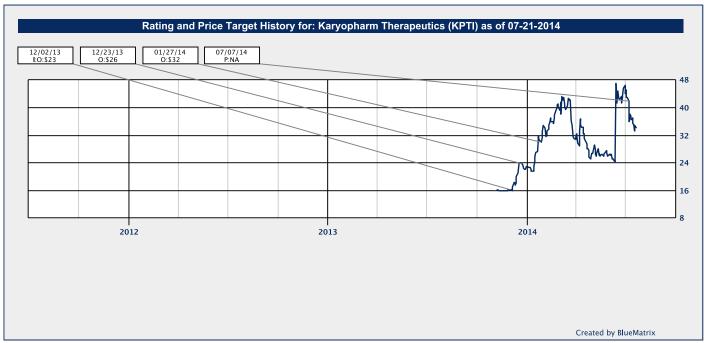
We believe Karyopharm shares are currently fairly valued. The emerging Phase 1 data for Karyopharm's lead drug Selinexor suggest to us fair-to-good chances of approval as a salvage therapy in several advanced cancers. We focus our work on myeloma, DLBCL, elderly AML and sarcoma, where we currently see the strongest efficacy data and where modest share and duration assumptions in the relapsed/ refractory setting support the current valuation. We see room for upside if maturing Phase 1 data (and readouts from newly-initiated Phase 2 trials) can support: 1) increased duration of treatment in myeloma, DLBCL, elderly AML and sarcoma; and 2) better defined signals of activity in additional blood cancers and/or solid tumors.

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Distribution of Ratings				
			IB Serv/Pa	st 12 Mos.
Rating	Count	Percent	Count	Percent
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PERFORM [P]	276	46.15	95	34.42
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