

# Karyopharm Therapeutics Inc. (KPTI)

Flurry of Trial Activity in 2014 as Karyopharm Reports 1Q14

## MARKET DATA

Price	\$25.84
52-Week Range:	\$15.50 - \$47.87
Shares Out. (M):	29.8
Market Cap (\$M):	\$770.0
Average Daily Vol. (000):	248.0
Cash (M):	\$156
Cash/Share:	\$5.24
Enterprise Value (M):	\$785
Float (M):	14.6
LT Debt (M):	\$0

Source: Thomson Reuters and JMP Securities LLC

**MARKET OUTPERFORM** | Price: \$25.84 | Target Price: \$50.00

## INVESTMENT HIGHLIGHTS

**Thesis intact following the release of 1Q14 results from Karyopharm Therapeutics; reiterate our Market Outperform rating and \$50 price target based on DCF, CAGR, and SOTP methodologies.** The near-term focus remains on selinexor Phase I updates at ASCO in NHL and AML. KPTI recorded a net operating loss and EPS of \$13.7MM and (\$0.46), respectively, marginally greater than our estimates of \$12.5MM and (\$0.43), on higher R&D spend. We remind investors that as a development-stage biotech company, KPTI continues to be a story of clinical execution with its lead asset selinexor, rather than of earnings. Timelines to the initiation of registration-directed trials in AML (2Q14), Richter's Syndrome CLL (2Q14), and DLBCL (2H14) remain intact. We anticipate that Phase I results in each of these indications at ASCO (including activity at higher doses) will affirm selinexor's likelihood of success. Recent developments have also centered around a robust IST effort, including recent monotherapy studies in glioblastoma, gynecologic malignancies, pediatric leukemia, and two AML combination trials with Dacogen and BSC plus low dose Ara-C or HMA therapy (Dacogen is an HMA). We view the breadth and scope of these trials, spanning a diversity of indications and trial centers, as a validating signal for the clinical activity of selinexor, and we maintain a high level of confidence in its clinical success. We have made minimal changes to our model, reflecting the impact of 1Q14 actuals.

### Registration directed studies at a glance:

**AML, initiating 2Q14.** A 2:1 randomized Phase II study in ~150 first relapsed AML patients, not suitable for intensive chemotherapy or transplant. The trial will compare selinexor (55mg/m<sup>2</sup> BIW) to a control arm of physician's choice (including BSC, low-dose Ara-C, or HMA therapy). The primary endpoint is overall survival, with 80% power to show ≥50% improvement in OS, implying a HR=0.65, expected survival of 4.5 months for selinexor versus 3.0 months control.

**DLBCL, initiating 2H14.** A 2:1 randomized Phase II trial in ~300 third-line or greater DLBCL patients, comparing selinexor (60mg/m<sup>2</sup> BIW) to physician's choice chemotherapy. The primary endpoint is progression free survival, with 80% power to demonstrate an HR of ~0.63 (6.4 months with selinexor versus 4.0 months control).

**Richter's syndrome, 2Q14.** Fifty (50) patient, monotherapy Phase II study in relapsed Richter's syndrome CLL (~10% of CLL population).

FY DEC		2013A	2014E	2015E
Revenue (\$M)	1Q	--	\$0.2A	\$0.0
	2Q	\$0.4	\$0.0	\$0.0
	3Q	\$0.0	\$0.0	\$0.0
	4Q	\$0.0	\$0.0	\$0.0
	<b>FY</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>
EPS	1Q	--	(\$0.46)A	--
	2Q	(\$5.39)	(\$0.44)	--
	3Q	(\$3.66)	(\$0.46)	--
	4Q	(\$0.47)	(\$0.53)	--
	<b>FY</b>	<b>(\$5.59)</b>	<b>(\$1.89)</b>	<b>(\$5.18)</b>
Previous FY		NC	(\$1.90)	(\$5.20)

EPS 2013 Q2: Results are for six months ended June 30, 2013

Revenue (\$M) 2013 Q2: Results are for six months ended June 30, 2013

Source: Company reports and JMP Securities LLC

## STOCK PRICE PERFORMANCE



### Investigator sponsored trials at a glance:

- **AML+ Dacogen, treatment naïve elderly and R/R AML.** Single-arm, ~40-patient Phase I trial in combination with standard dose Dacogen (decitabine), in treatment naïve patients ≥60 years, ineligible for chemotherapy and/or relapsed/refractory AML. Treatment comprises an induction period of up to four cycles of 10 days of decitabine followed by selinexor BIW, and a maintenance period of 5 days of decitabine followed by selinexor BIW. Primary endpoints include safety, tolerability, and MTD. Secondary endpoints include overall response and pharmacodynamic analysis.
- **Gynecologic Malignancies (SIGN).** Single-arm, ~63-patient, Phase II study in previously treated ovarian, cervical, and endometrial cancer, evaluating 50mg/m<sup>2</sup> BIW dosing with selinexor. Primary endpoint of objective response.
- **Recurrent Glioblastoma (KING).** Single-arm, ~30-patient Phase II study in patients with recurrent glioblastoma after failure with radiation and temozolomide.
- **Pediatric leukemia.** Single-arm, ~25-30-patient Phase I study in children with relapsed or refractory ALL or AML.

**FIGURE 1. Upcoming Catalysts**

Timing	Drug	Catalyst
1H14	Selinexor	Initiation of first pivotal Phase II/III study in (elderly R/R AML)
1H14	Selinexor	Updated Phase I data in heme malignancy and solid tumors at ASCO (#2537, May 30, and #8518 and #7032, May 31)
1H14	Selinexor	Initiation of second Phase II trial in solid tumor indication (squamous cell cancer, head and neck, lung and esophageal cancer)
3Q14	Selinexor	Initiation of second pivotal Phase II/III study in (3L+ DLBCL)
2H14	KPT-350	IND completion for use in inflammation, auto-immune, and anti-viral indications
2H14	PAK Inhibitor	IND completion for use in oncology indications

Source: Company reports

## REVIEW OF 1Q14 FINANCIALS AND CHANGES TO OUR MODEL

As noted above, KPTI recorded a 1Q14 net operating loss of \$13.7MM, greater than our estimate of \$12.5MM. Specifically, R&D spend of \$28.5MM was higher than our \$25.3MM estimate, as was G&A spend of \$5.9MM compared to our \$4.5MM estimate. Variance in actual versus estimated EPS was driven primarily by a lower than expected year-end weighted average outstanding share count. A comparison of 1Q14 results versus JMP and consensus estimates is detailed in Figure 2.

**FIGURE 2. 1Q14 Actuals versus JMP and Consensus Estimates**

Karyopharm Therapeutics(KPTI) Abridged Income Statement (\$ MM)	1Q14 Results		
	JMP Estimate	Actual	Variance (JMP vs. Actual)
<b>Total Revenues</b>	-	0.17	0.17
<b>Operating Expenses</b>	12.50	13.88	1.4
Research and development	9.90	10.98	1.1
General and administrative	2.60	2.90	0.3
<b>Operating income (loss)</b>	(12.50)	(13.71)	1.2
<b>Other income (expense)</b>	0.00	0.02	0.02
Interest income	0.00	0.02	0.02
<b>Pretax income (loss)</b>	(12.50)	(13.69)	(1.19)
Provision for Income Tax	0.00	0.00	-
<b>Net income (loss)</b>	(12.50)	(13.69)	(1.19)
<b>EPS Calculations</b>			
<b>Basic EPS</b>	\$ (0.43)	\$ (0.46)	\$ (0.03)
<b>Diluted EPS</b>	\$ (0.43)	\$ (0.46)	\$ (0.03)
Basic shares outstanding	28.741	29.607	0.866
Diluted shares outstanding	28.741	29.607	0.866

Source: JMP Securities LLC, Company reports

**FIGURE 3. Changes to Our Income Statement**

Karyopharm Therapeutics (KPTI) (\$ MM)	2Q14E		3Q14E		4Q14E		FY 2014E		FY 2015E		FY 2016E		FY 2017E	
	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New
Sales	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.1	44.1	103.6	103.6
ROW Royalties	-	-	-	-	-	-	-	-	-	-	-	-	6.8	6.8
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Revenue</b>	-	-	-	-	-	-	-	-	-	-	<b>44.13</b>	<b>44.13</b>	<b>110.40</b>	<b>110.40</b>
<b>COGS</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	4.4	4.4	9.3	9.3
<b>Gross Profit</b>	-	-	-	-	-	-	-	0.17	-	-	39.7	39.7	101.1	101.1
<b>Operating Expenses</b>	<b>13.0</b>	<b>13.0</b>	<b>13.5</b>	<b>13.5</b>	<b>15.7</b>	<b>15.7</b>	<b>54.7</b>	<b>56.0</b>	<b>149.8</b>	<b>153.6</b>	<b>228.7</b>	<b>234.4</b>	<b>295.4</b>	<b>302.8</b>
Research and development	10.2	10.2	10.6	10.6	11.7	11.7	42.4	43.5	76.3	78.3	122.1	125.2	164.9	169.0
General and administrative	2.8	2.8	2.9	2.9	4.0	4.0	12.3	12.6	73.5	75.3	106.6	109.2	130.6	133.8
<b>Operating income (loss)</b>	(13.0)	(13.0)	(13.5)	(13.5)	(15.7)	(15.7)	(54.7)	(55.9)	(149.8)	(153.6)	(189.0)	(194.7)	(194.3)	(201.8)
<b>Other income (expense)</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest income	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest expense	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Pretax income</b>	(13.0)	(13.0)	(13.5)	(13.5)	(15.7)	(15.7)	(54.7)	(55.9)	(149.8)	(153.6)	(189.0)	(194.7)	(194.3)	(201.8)
Provision for Income Tax	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Net income</b>	(13.0)	(13.0)	(13.5)	(13.5)	(15.7)	(15.7)	(54.7)	(55.9)	(149.8)	(153.6)	(189.0)	(194.7)	(194.3)	(201.8)
<b>Basic EPS</b>	<b>\$ (0.45)</b>	<b>\$ (0.44)</b>	<b>\$ (0.47)</b>	<b>\$ (0.46)</b>	<b>\$ (0.55)</b>	<b>\$ (0.53)</b>	<b>\$ (1.90)</b>	<b>\$ (1.89)</b>	<b>\$ (5.20)</b>	<b>\$ (5.18)</b>	<b>\$ (6.17)</b>	<b>\$ (6.18)</b>	<b>\$ (5.98)</b>	<b>\$ (6.05)</b>
<b>Diluted EPS</b>	<b>\$ (0.45)</b>	<b>\$ (0.44)</b>	<b>\$ (0.47)</b>	<b>\$ (0.46)</b>	<b>\$ (0.55)</b>	<b>\$ (0.53)</b>	<b>\$ (1.90)</b>	<b>\$ (1.89)</b>	<b>\$ (5.20)</b>	<b>\$ (5.18)</b>	<b>\$ (6.17)</b>	<b>\$ (6.18)</b>	<b>\$ (5.98)</b>	<b>\$ (6.05)</b>
Basic shares outstanding	28.76	29.61	28.77	29.62	28.78	29.63	28.77	29.52	28.82	29.67	30.65	31.50	32.50	33.35
Diluted shares outstanding	28.76	29.61	28.77	29.62	28.78	29.63	28.77	29.52	28.82	29.67	30.65	31.50	32.50	33.35

Source: JMP Securities LLC, Company reports

FIGURE 4. Updated Income Statement

Income Statement (\$MM)	1Q14A	2Q13E	3Q14E	4Q14E	2014E	2015E	2016E	2017E	2018E	2019E	2020E
Product Sales and Royalties:											
Selinexor											
US Sales						-	44.1	103.6	308.1	842.2	1,463.8
ROW Royalties						-	-	6.8	17.1	43.2	111.9
<b>Total Product Sales and Royalties</b>	0.0	0.0	0.0	0.0	0.0	0.0	44.1	110.4	325.2	885.3	1,575.8
Collaboration Revenue	0.2										
<b>Total Revenue</b>	0.2	0.0	0.0	0.0	0.0	0.0	44.1	110.4	325.2	885.3	1,575.8
Cost of Goods Sold							4.4	9.3	24.6	67.4	117.1
<b>Gross Profit</b>	0.2	0.0	0.0	0.0	0.2	0.0	39.7	101.1	300.5	818.0	1,458.7
<b>Operating Expenses:</b>											
Research and Development	11.0	10.2	10.6	11.7	43.5	78.3	125.2	169.0	189.3	204.5	214.7
General and administrative	2.9	2.8	2.9	4.0	12.6	75.3	109.2	133.8	153.9	169.2	186.2
<b>Total operating expenses</b>	13.9	13.0	13.5	15.7	56.0	153.6	234.4	302.8	343.2	373.7	400.9
<b>Operating income (loss)</b>	(13.7)	(13.0)	(13.5)	(15.7)	(55.9)	(153.6)	(194.7)	(201.8)	(42.7)	444.2	1,057.8
<b>Other income (expense):</b>											
Interest income	0.0										
Interest expense											
<b>Total other income, net</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Change in fair value of preferred stock warrant liability											
Foreign currency transaction gain (loss)											
<b>Pretax income (loss)</b>	(13.7)	(13.0)	(13.5)	(15.7)	(55.8)	(153.6)	(194.7)	(201.8)	(42.7)	444.2	1,057.8
Income tax benefit (provision)					0.0	0.0	0.0	0.0	0.0	0.0	(158.7)
Tax Rate					0%	0%	0%	0%	0%	0%	15%
<b>Comprehensive income (loss)</b>	(13.7)	(13.0)	(13.5)	(15.7)	(55.8)	(153.6)	(194.7)	(201.8)	(42.7)	444.2	899.1
Accretion of redeemable convertible preferred stock											
<b>Net income (loss) attributable to common stockholders</b>	(13.7)	(13.0)	(13.5)	(15.7)	(55.8)	(153.6)	(194.7)	(201.8)	(42.7)	444.2	899.1
<b>Basic EPS to common shareholders</b>	\$ (0.46)	\$ (0.44)	\$ (0.46)	\$ (0.53)	\$ (1.89)	\$ (5.18)	\$ (6.18)	\$ (6.05)	\$ (1.27)	\$ 13.24	\$ 26.70
<b>Diluted EPS to common shareholders</b>	\$ (0.46)	\$ (0.44)	\$ (0.46)	\$ (0.53)	\$ (1.89)	\$ (5.18)	\$ (6.18)	\$ (6.05)	\$ (1.27)	\$ 12.87	\$ 25.97
Basic shares outstanding	29.6	29.6	29.6	29.6	29.5	29.7	31.5	33.4	33.5	33.6	33.7

Source: JMP Securities LLC, Company reports

## Company Description

Karyopharm Therapeutics (KPTI) is a Natick, MA based, clinical-stage biopharmaceutical company focused on the discovery and development of novel first-in-class drugs directed against nuclear transport targets for the treatment of cancer and other major diseases. Karyopharm's Selective Inhibitors of Nuclear Export (SINE) compounds function by preventing the export of tumor suppressor proteins from the nucleus, driving their accumulation and restoration of function. The company's lead pipeline candidate selinexor (KPT-330) is a Phase I orally available small molecule inhibitor of XPO1, set to initiate pivotal Phase II/III evaluation in various hematologic malignancies in 2014. Karyopharm is also developing selinexor and SINE as potential therapies for autoimmune and inflammatory disease, viral infections and wound healing.

## Investment Risks

**Clinical.** Drug development is an inherently risky business. Clinical trials always carry a risk of failure and Karyopharm's assets (Selinexor (KPT330), KPT-350, PAK4 inhibitor, verdinexor or future drug candidates) may fail to demonstrate meaningful enough levels of efficacy in current or future clinical trials.

**Regulatory and commercial.** The ability of Karyopharm to market its drugs depends on those drugs obtaining approval from the FDA and foreign regulatory agencies. Failure to achieve approval or delays in the timelines to approval could negatively impact the company's share price.

**Competitive.** Hematologic malignancies including multiple myeloma, indolent non-Hodgkin lymphoma and acute myeloid leukemia represent increasingly competitive fields and Karyopharm faces competition from both commercial and development-stage companies with product(s) or product candidates addressing similar clinical indications. Some of these companies may possess substantially greater R&D and commercial resources than Karyopharm. As such, there is no assurance Karyopharm will be competitive or differentiated from other drug products.

**Financial.** Following its IPO, we estimate that Karyopharm will end 4Q13 with approximately \$153MM in cash and cash equivalents, which are adequate resources to fund operations into 2015, according to Karyopharm financial guidance. We anticipate the company is likely to seek additional equity financing in the form of a secondary offering in order to complete the development of its drug candidates, creating dilution risk for existing shareholders.

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JMP Securities was manager or co-manager of a public offering of securities for Karyopharm Therapeutics Inc. (KPTI) in the past 12 months, and received compensation for doing so.

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Market Outperform (MO): JMP Securities expects the stock price to outperform relevant market indices over the next 12 months.

Market Perform (MP): JMP Securities expects the stock price to perform in line with relevant market indices over the next 12 months.

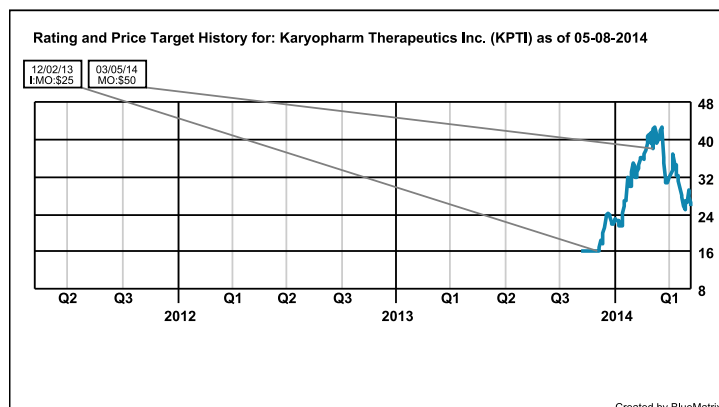
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JMP Rating	Regulatory Equivalent	# Co's Under Coverage	% of Total	Regulatory Equivalent	# Co's Under Coverage	% of Total	# Co's Receiving IB Services in Past 12 Months	% of Co's With This Rating
MARKET OUTPERFORM	Buy	254	58.12%	Buy	254	58.12%	102	40.16%
MARKET PERFORM	Hold	135	30.89%	Hold	135	30.89%	17	12.59%
MARKET UNDERPERFORM	Sell	5	1.14%	Sell	5	1.14%	0	0%
COVERAGE IN TRANSITION		43	9.84%		43	9.84%	0	0%
TOTAL:		437	100%		437	100%	119	27.23%

### Stock Price Chart of Rating and Target Price Changes:

Note: First annotation denotes initiation of coverage or 3 years, whichever is shorter. If no target price is listed, then the target price is N/A. In accordance with NASD Rule 2711, the chart(s) below reflect(s) price range and any changes to the rating or price target as of the end of the most recent calendar quarter. The action reflected in this note is not annotated in the stock price chart. Source: JMP Securities.



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