

# Zafgen, Inc. (ZFGN)

Reports 2Q14 Financial Results and Clinical Updates

MARKET DATA	
Price 52-Week Range:	\$17.83 \$17.06 - \$21.01
Shares Out. (M):	22.7
Market Cap (\$M):	\$404.7
Average Daily Vol. (000):	8.0
Cash (M):	\$134
Cash/Share:	\$5.91
Enterprise Value (M):	\$296
LT Debt (M):	\$0
Source: Thomson Reuters and JMP Securities LLC	

FY DEC		2013A	2014E	2015E		
Revenue (\$M)	1Q	\$0.0	\$0.3A			
	2Q	\$0.0	\$0.0A			
	3Q	\$0.0	\$0.0			
	4Q	\$0.0	\$0.0			
	FY	\$0.0	\$0.3	\$0.0		
EPS	1Q	(\$4.94)	(\$5.82)A			
	2Q		(\$2.96)A			
	3Q		(\$0.66)			
	4Q		(\$0.84)			
	FY	(\$19.53)	(\$10.29)	(\$2.15)		
Previous	s FY	NC	(\$15.64)	(\$2.09)		
Source: Company reports and JMP Securities LLC						



MARKET OUTPERFORM | Price: \$17.83 | Target Price: \$31.00

## **INVESTMENT HIGHLIGHTS**

Clinical progress on track for multiple data read-outs in 2015 with a solid balance sheet following successful IPO; reiterate Market Outperform rating and \$31 price target on Zafgen. Zafgen reported 2Q14 earnings roughly in line with our estimates. The company ended the quarter with \$134MM in cash, following the successful completion of its IPO in June, and expects to end 2014 with greater than \$95MM. The company remains on track to have results from three clinical trials in 2015 for its lead development candidate beloranib. These include the Phase 2a trial in patients with obesity associated with hypothalamic injury, including craniopharyngioma-associated obesity (1Q15), the first of two planned Phase 3 trials in Prader-Willi syndrome (2H15), and the Phase 2b trial in severe obesity in the general population (2H15). Our \$31 target is derived though a sum-of-the-parts NPV analysis of beloranib in PWS and in craniopharyngioma-associated obesity.

Phase 3 trial in PWS data remains on track for YE2015. Zafgen remains on track to initiate the first of two Phase 3 trials (ZAF-311) in the U.S by the end of 3Q14 with six-month primary efficacy and safety results available by 2H15. The primary endpoints will be total body fat mass (% change from baseline as measured by DEXA) and hyperphagia-related behavior (as measured by PWS-HQ), with success in either viewed as acceptable for regulatory approval. Secondary endpoints include body weight, LDL-C, HDL-C, C-reactive protein, skin-picking behavior, and quality of life. A second Phase 3 trial, to be conducted in Europe, is expected to initiated in 1H15, following final agreement with regulatory agencies on the protocol. We believe positive results from these trials should support approval in these and other rest-of-world geographies.

Phase 2 trial in obesity passes 50% enrollment. The company has enrolled more than half of the target 14 patients, in the Phase 2a trial (ZGN-221) for beloranib in hypothalamic-injury associated obesity. The trial is enrolling at four centers, two of which are in the U.S. and two in Australia. The primary endpoint for this trial is change in body weight and additional endpoints include metabolic risk markers (cholesterol, triglycerides, CRP), assessments of hunger, and quality of life. We continue to anticipate data in 1Q15.

**Additional pipeline updates**. Management remains on track to initiate ZAF-203, a Phase 2B efficacy and safety study of beloranib for severe obesity in Type II diabetes patients, by YE 2014. Enrollment is targeted for ~100 subjects and initial results are anticipated in 2H15. The company also reiterated that it plans to file an IND by 1H15 for ZGN-839, its next generation MetAP2 inhibitor. Target indications for ZGN-839 could include NASH and Type 2 diabetes.

Jason N. Butler, PhD jbutler@jmpsecurities.com (212) 906-3505



## **2Q14 FINANCIAL SUMMARY**

Zafgen reported 2Q14 net income of (\$6.4MM), in line with our (\$6.3MM) estimate. The company reported no revenue, also in line with our expectations. Total operating expenses were \$6.0MM, slightly lower than our estimate of \$6.3MM. R&D expenses were \$4.7MM, compared to our estimate of \$4.9MM. SG&A expenses were \$1.3MM, versus our estimate of \$1.4MM. Cash and equivalents totaled \$134.2MM as of June 30, 2014 and the company guided to YE2014 cash in excess of \$95MM. Management stated that current cash is sufficient to fund operations for ~24 months.

We have updated our model (Figure 1) to reflect the 2Q14 financial results.

FIGURE 1. 2Q14 Earnings Summary and Changes to Our Model

ZFGN	2Q14		2014 est.			2015 est.			
	JMP old	Cons	Actual	JMP old	Cons	JMP new	JMP old	Cons	JMP new
Revenue	0.0	n/a	0.0	0.3	0.1	0.3	0.0	0.0	0.0
R&D	4.9		4.7	37.1		35.6	40.8		39.1
SG&A	1.4		1.3	5.8		5.5	6.9		6.6
Total operating expense	6.3		6.0	42.9		41.1	47.7		45.8
Net income (loss)	(6.3)	n/a	(6.4)	(42.6)	(39.8)	(41.2)	(47.7)	(53.3)	(45.7)
Shares outstanding (diluted)	0.8		2.2	11.5		11.9	22.8		22.8
EPS (diluted)	(\$8.37)	n/a	(\$2.96)	(\$15.64)	(\$2.57)	(\$10.29)	(\$2.09)	(\$2.5)	(\$2.15)

Source: JMP Securities LLC, Company reports

August 14, 2014 2



## **Company Description**

Zafgen is a biopharmaceutical company focused on addressing the unmet need of severely obese patients and related orphan indications. The company's lead development candidate is beloranib, a first-in-class MetAP2 inhibitor. Initial development of beloranib is targeting obesity and hyperphagia, or insatiable life-threatening hunger and hunger-related behaviors, in patients with Prader-Willi Syndrome (PWS) and craniopharyngioma-associated obesity. Additional indications for beloranib, and second generation MetAP2 inhibitors, include severe obesity in the general population, NASH, and Type 2 diabetes. The company is lead by an experienced management team with proven success in the cardiovascular and metabolic disease arenas.

Zafgen completed its IPO in June 2014 and raised net proceeds of ~\$103MM. We believe the IPO proceeds provide sufficient cash to fund operations into 2017, which include full clinical development of beloranib in Prader-Willi Syndrome.

#### **Investment Risks**

Clinical risk. We note that positive results from early trials cannot always be replicated and that the drug may fail in later trials. We note that the Phase 2a proof-of-concept trial was conducted in a small number of patients (n=14), although we believe the likelihood of replicating these positive results in a Phase 3 trial is high. Zafgen may not be successful in the full development and launch of its product candidate, beloranib. There may be dosing, efficacy, or safety issues related to product candidates undergoing clinical trials that could preclude continued development. In addition, there may be manufacturing issues including challenges with the scale-up to commercial quantities. Any of these issues could pose a risk to success.

Regulatory risk. The company's potential regulatory filing for its NDA may not receive approval from the FDA or ex-U.S. agencies. The FDA may request further studies, in which case the approval pathway will likely take longer and cost significantly more. Zafgen relies on third parties to conduct future clinical trials of beloranib and there is risk that they may not carry out their contractual duties or meet deadlines, either of which would result in delays and adverse consequences to the business.

Market risk. Market estimates of PWS patients, or patients eligible for beloranib treatment, may be overestimated. This would impact the ability to reach revenue and profitability projections. The company must retain its intellectual property rights. Other companies may file patent applications or may receive patents that claim the same methods or formulations. This competition would affect operations and potential business prospects.

Financial risk. Zafgen has funded operations to date through proceeds from sales of redeemable convertible preferred stock and convertible debt. Due to no incoming revenue as of yet, the company has incurred losses each year since inception due to research and development expenses. These expenses are expected to continue to incur in the near future. We anticipate that Zafgen will likely need to raise additional funds in the next 12 months to continue future operations. If there are any issues commercializing its product candidates and achieving sales revenue, the company may not reach profitability, which may jeopardize the business. Additionally, Zafgen shares are subject to market volatility risk.

August 14, 2014 3



#### JMP FACTS AND DISCLOSURES

#### **Analyst Certification:**

The research analyst(s) who prepared this report does/do hereby certify that the views presented in this report are in accordance with my/our personal views on the securities and issuers discussed in this report. As mandated by SEC Regulation AC no part of my/our compensation was, is or will be directly or indirectly related to the specific views or recommendations expressed herein. This certification is made under the obligations set forth in SEC Regulation AC. Any other person or entity may not use it for any other purpose. This certification is made based on my/our analysis on the date of this report's publication. I/We assume no obligation to update this certification to reflect any facts, circumstances or events that may subsequently come to my/our attention. Signed Jason N. Butler

#### JMP Securities Disclosures:

JMP Securities currently makes a market in the security of Zafgen, Inc.

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

#### **JMP Securities Investment Opinion Definitions:**

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.

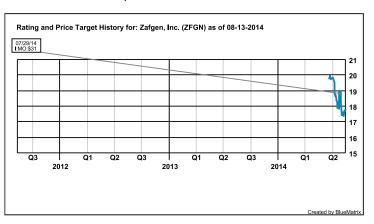
Market Underperform (MU): JMP Securities expects the stock price to underperform relevant market indices over the next 12 months.

JMP Securities Research Ratings and Investment Banking Services: (as of August 14, 2014)

							# Co's	
							Receiving	
							IB	
		# Co's	%		# Co's	%	Services in	% of Co's
	Regulatory	Under	of	Regulatory	Under	of	Past 12	With This
JMP Rating	Equivalent	Coverage	Total	Equivalent	Coverage	Total	Months	Rating
								_
MARKET OUTPERFORM	Buy	267	60.00%	Buy	267	60.00%	97	36.33%
MARKET PERFORM	Hold	138	31.01%	Hold	138	31.01%	18	13.04%
MARKET UNDERPERFORM	Sell	4	0.90%	Sell	4	0.90%	0	0%
COVERAGE IN TRANSITION		36	8.09%		36	8.09%	0	0%
TOTAL:		445	100%		445	100%	115	25.84%

#### **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 guarter. The action reflected in this note is not annotated in the stock price chart. Source: JMP Securities.



August 14, 2014 4

#### Zafgen, Inc. (ZFGN)



#### JMP Disclaimer:

JMP Securities LLC (the "Firm") compensates research analysts, like other Firm employees, based on the Firm's profitability, which includes revenues from the Firm's institutional sales, trading, and investment banking departments as well as on the guality of the services and activities performed that are intended to benefit the Firm's institutional clients. These data have been prepared by JMP Securities LLC for informational purposes only and are based on information available to the public from sources that we believe to be reliable, but we do not guarantee their accuracy or completeness. Any opinions and projections expressed herein reflect our judgment at this date and are subject to change without notice. These data are neither intended nor should be considered as an offer to sell or a solicitation or a basis for any contract for the purchase of any security or other financial product. JMP Securities LLC, its affiliates, JMP Group LLC, Harvest Capital Strategies LLC, and their respective partners, directors, officers, and associates may have a long or short position in, may act as a market maker for, or may purchase or sell a position in the securities mentioned herein. JMP Securities LLC or its affiliates may be performing, have performed, or seek to perform investment banking, advisory, or other services and may have acted as manager or co-manager for a public offering of securities for any company mentioned herein. The reader should assume that JMP Securities LLC will solicit business from the company covered in this report. Members of our Sales and Trading Department provide oral and/or written market opinions and trading strategies to our clients that reflect their personal opinions about stocks that are the subject of the firm's research reports. Our research analysts discuss trading strategies with clients that sometimes reflect short-term expectations for the price of the securities that are the subject of research reports. These trading strategies are distinct from the analysts' fundamental rating for the stock, which is based upon the analysts' view compared to other stocks under coverage for the relevant time period. © Copyright 2014. All rights reserved by JMP Securities LLC. JMP Securities LLC is a member of FINRA, NASDAQ, and SIPC.



Jeffrey H. Spurr Director of Research (415) 835-3903

## **RESEARCH PROFESSIONALS**

#### **FINANCIAL SERVICES**

Alternative Asset Managers		Medical Devices & Supplies	
Devin Ryan	(212) 906-3578	David Turkaly	(212) 906-3563
Brian McKenna	(212) 906-3545	John Gillings	(212) 906-3564
		Our anieltes Discours a south anie	
Commercial & Specialty Finance		Specialty Pharmaceuticals	(0.40) 000 0700
Christopher York	(415) 835-8965	Oren G. Livnat, CFA	(212) 906-3566
Hannah Kim, CFA	(415) 835-8962	Nazibur Rahman	(212) 906-3519
Consumer Finance			
David M. Scharf	(415) 835-8942	REAL ESTATE	
Jeremy Frazer	(312) 768-1796		
Jeremy Frazer	(312) 700-1790	Housing & Land Development	
Financial Processing & Outsourcing		Peter L. Martin, CFA	(415) 835-8904
David M. Scharf	(415) 835-8942	Aaron Hecht	(415) 835-3963
	` ,	Bharathwajan Iyengar	(415) 835-3902
Jeremy Frazer	(312) 768-1796		( · · · · ) · · · · · · · · ·
Insurance		Lodging & Leisure	
	(040) 700 4704	Robert A. LaFleur	(212) 906-3510
Matthew J. Carletti	(312) 768-1784	Whitney Stevenson	(212) 906-3538
Christine Worley	(312) 768-1786	vinus y eleveneen	(212) 000 0000
Investment Denke & Duckeys		Property Services	
Investment Banks & Brokers	(0.4.0), 0.00, 0.5.7.0	Mitch Germain	(212) 906-3546
Devin Ryan	(212) 906-3578	Peter Lunenburg	(212) 906-3537
Brian McKenna	(212) 906-3545	r eter Eurenburg	(212) 000 0001
Mantagara Onematina Communica		REITs: Healthcare, Residential, & Speci	altv
Mortgage Operating Companies		Peter L. Martin, CFA	(415) 835-8904
REITs: Agency, Hybrid, & Commercial M		Aaron Hecht	(415) 835-3963
Steven C. DeLaney	(404) 848-7773	Arthur Kwok	(415) 835-8908
Trevor Cranston, CFA	(415) 869-4431	Altitul RWOK	(+13) 000-0000
Charter Robinson	(757) 613-8955	REITs: Office, Industrial, & Diversified	
Benjamin Zucker	(212) 906-3529		(242) 000 2540
•		Mitch Germain	(212) 906-3546
HEALTHOADE		Peter Lunenburg	(212) 906-3537
HEALTHCARE		Residential Services	
		Residential Services	
Distriction of a min		Detail Martin CEA	(445) 025 0004
Biotechnology	(0.10) =00 1=0=	Peter L. Martin, CFA	(415) 835-8904
Liisa A. Bayko	(312) 768-1785	Aaron Hecht	(415) 835-3963
Liisa A. Bayko Andrew Prigodich, PhD	(312) 768-1788		
Liisa A. Bayko	` ,	Aaron Hecht	(415) 835-3963
Liisa A. Bayko Andrew Prigodich, PhD	(312) 768-1788	Aaron Hecht Bharathwajan Iyengar	(415) 835-3963
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD	(312) 768-1788 (312) 768-1795 (212) 906-3505	Aaron Hecht	(415) 835-3963
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509	Aaron Hecht Bharathwajan Iyengar TECHNOLOGY	(415) 835-3963 (415) 835-3902
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr.	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet	(415) 835-3963 (415) 835-3902 Security
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr.	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet	(415) 835-3963 (415) 835-3902 Security
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918 (415) 835-3920
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III	(415) 835-3963 (415) 835-3902 Security (415) 835-3918 (415) 835-3920 (212) 906-3528
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-3963	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III	(415) 835-3963 (415) 835-3902 Security (415) 835-3918 (415) 835-3920 (212) 906-3528
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-3963	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok  Life Science Tools & Diagnostics	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-8908	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu  Software	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957 (415) 835-8996
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok  Life Science Tools & Diagnostics J. T. Haresco, III, PhD	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-8908 (415) 835-8908	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu  Software Patrick Walravens	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957 (415) 835-8996 (415) 835-8943
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok  Life Science Tools & Diagnostics	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-8908	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu  Software Patrick Walravens Peter Lowry	(415) 835-3963 (415) 835-3902 Security (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957 (415) 835-8996 (415) 835-8943 (415) 869-4418
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok  Life Science Tools & Diagnostics J. T. Haresco, III, PhD Marie T. Casey, PhD	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-8908 (415) 835-8908	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu  Software Patrick Walravens	(415) 835-3963 (415) 835-3902 <b>Security</b> (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957 (415) 835-8996 (415) 835-8943
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok  Life Science Tools & Diagnostics J. T. Haresco, III, PhD Marie T. Casey, PhD  Medical Devices	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-8908 (415) 835-8908 (415) 835-3963 (415) 835-3955	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu  Software Patrick Walravens Peter Lowry Greg McDowell	(415) 835-3963 (415) 835-3902 Security (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957 (415) 835-8996 (415) 835-8943 (415) 869-4418 (415) 835-3934
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok  Life Science Tools & Diagnostics J. T. Haresco, III, PhD Medical Devices J. T. Haresco, III, PhD	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-8908 (415) 835-8908 (415) 835-3955 (415) 835-3955	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu  Software Patrick Walravens Peter Lowry	(415) 835-3963 (415) 835-3902 Security (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957 (415) 835-8996 (415) 835-8943 (415) 869-4418 (415) 835-3934
Liisa A. Bayko Andrew Prigodich, PhD Bhumika Sharma, PhD Jason N. Butler, PhD Caroline Palomeque Michael G. King, Jr. Bryan Czyzewski, PhD Eric Joseph, PhD  Healthcare Services & Facilities Peter L. Martin, CFA Aaron Hecht Arthur Kwok  Life Science Tools & Diagnostics J. T. Haresco, III, PhD Marie T. Casey, PhD  Medical Devices	(312) 768-1788 (312) 768-1795 (212) 906-3505 (212) 906-3509 (212) 906-3520 (212) 906-3577 (212) 906-3514 (415) 835-8904 (415) 835-8908 (415) 835-8908 (415) 835-3963 (415) 835-3955	Aaron Hecht Bharathwajan Iyengar  TECHNOLOGY  Communications Equipment & Internet Erik Suppiger John Lucia  Internet & Digital Media Ronald V. Josey III Andrew Boone, CFA Michael Wu  Software Patrick Walravens Peter Lowry Greg McDowell	(415) 835-3963 (415) 835-3902 Security (415) 835-3918 (415) 835-3920 (212) 906-3528 (415) 835-3957 (415) 835-8996 (415) 835-8943 (415) 869-4418 (415) 835-3934

# **ADDITIONAL CONTACTS**

Thomas R. Wright Director of Equities (212) 906-3599 Dan Wychulis Director of Institutional Sales (617) 235-8530 **600 Montgomery Street, Suite 1100** San Francisco, CA 94111 www.jmpsecurities.com