## **Quarterly Industry Update**

As of September 30, 2015 Industry: Monoclonal Antibodies

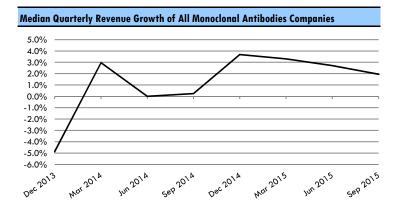


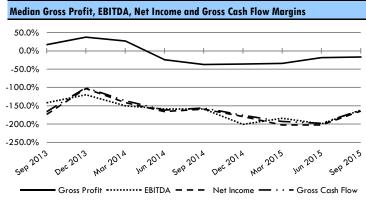
## **Industry Summary**

Cogent Valuation identified Monoclonal Antibodies publicly traded companies, IPOs, and recent M&A transactions within the Monoclonal Antibodies industry, which provides a basis for market and transaction pricing that can be used by your firm in estimating market sentiment and its impact on your firm's value. Over the last year since September 30, 2014, the median 52-week share price return of the Monoclonal Antibodies industry was -13.1%. Between September 30, 2013 and September 30, 2015, the median EV/Revenue multiple decreased from 7.8 to 5.8. This industry is not profitable and all other valuation multiples based on profitability metrics were not meaningful.

Comparable Public Company Key Statist	ics											
Median 52-Week Return	-13.1%	Median EV/Revenue Multiple			5.8x	Median Price/Earnings Multiple				2.6x		
Median 3-Year CAGR Return	-0.3%	Median EV/EBITDA Multiple			42.6x	Median EV/Gross CF Multiple			44.7x			
Comparable Public Company Market Price Returns As of September 30, 2015												
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2014	2013	2012	2011	2010	
Alder Biopharmaceuticals Inc.	N/A	-38.2%	158.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
AVEO Pharmaceuticals, Inc.	-54.1%	-30.5%	9.0%	-23.4%	-51.2%	-35.9%	-54.1%	-77.3%	-53.2%	17.6%	N/A	
Celldex Therapeutics, Inc.	-24.6%	-58.2%	-18.7%	-45.5%	18.7%	21.4%	-24.6%	260.8%	158.1%	-36.9%	-11.8%	
Dyax Corp.	86.6%	-28.0%	88.6%	66.8%	94.4%	51.8%	86.6%	116.5%	155.9%	-37.0%	-36.3%	
Halozyme Therapeutics, Inc.	-35.6%	-40.5%	47.6%	10.3%	21.2%	11.7%	-35.6%	123.4%	-29.4%	20.1%	34.9%	
Immunomedics Inc.	4.3%	-57.6%	-53.8%	-47.3%	-21.2%	-11.7%	4.3%	57.5%	-12.3%	-7.0%	11.5%	
Infinity Pharmaceuticals, Inc.	22.3%	-22.8%	-37.0%	-30.4%	-28.9%	8.9%	22.3%	-60.5%	295.9%	49.1%	-4.0%	
Lpath Inc.	-33.8%	-30.8%	-94.6%	-81.5%	-66.7%	-50.3%	-33.8%	-15.6%	-39.4%	33.7%	11.3%	
Omeros Corporation	119.5%	-39.1%	-13.8%	6.0%	5.3%	8.5%	119.5%	117.5%	31.4%	-52.1%	17.4%	
OncoMed Pharmaceuticals, Inc.	-26.3%	-26.3%	-12.4%	4.1%	N/A	N/A	-26.3%	N/A	N/A	N/A	N/A	
PDL BioPharma, Inc.	-8.6%	-21.8%	-32.7%	-20.6%	-13.2%	-0.9%	-8.6%	19.9%	13.5%	-0.5%	-9.2%	
Peregrine Pharmaceuticals, Inc.	0.0%	-22.1%	-25.0%	-14.6%	-0.3%	-6.8%	0.0%	5.3%	28.2%	-55.2%	-22.3%	
Repligen Corporation	45.2%	-32.5%	39.9%	58.5%	67.2%	52.5%	45.2%	117.2%	81.0%	-26.0%	14.1%	
Sorrento Therapeutics, Inc.	24.3%	-52.4%	85.6%	-6.5%	10.3%	-28.1%	24.3%	116.0%	-25.0%	-66.7%	-68.8%	
Median of Industry Public Companies	0.0%	-31.7%	-13.1%	-14.6%	2.5%	3.8%	0.0%	86.8%	20.9%	-16.5%	-4.0%	

(Multiple year periods are calculated as the average annual return.)





Median Public Company Multiples of the Monoclonal Antibodies Industry										
Date:	9/30/2013	12/31/2013	3/31/2014	6/30/2014	9/30/2014	12/31/2014	3/31/2015	6/30/2015	9/30/2015	
EV/Revenues Multiple	7.8x	5.6x	5.8x	8.0x	6.7x	8.0x	5.9x	5.1x	5.8x	

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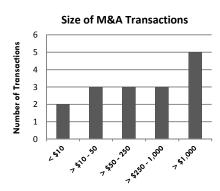
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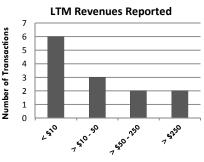


Industry Initial Public Offerings (dollars in millions, except share prices)										
Offer Date 12/10/2014	Company Name ALTEOGEN Inc.	Offer Price \$23.53	Shares Offered 0.9	Amount Raised \$21.2	Total Assets \$5.4	<u>Debt</u> \$1.1	LTM Revenues	LTM EBITDA \$1.6	LTM Net Income \$1.3	LTM Cash Flows \$1.6
11/13/2014	FibroGen, Inc.	\$18.00	8.1	\$145.8	\$344.4	\$114.1	\$133.9	(\$22.6)	(\$35.7)	(\$18.1)
5/8/2014	Alder Biopharmaceuticals Inc.	\$10.00	8.0	\$80.0	\$26.7	\$0.0	\$18.8	(\$19.8)	(\$20.6)	(\$18.9)
12/2/2013	Xencor, Inc.	\$5.50	12.7	\$70.0	\$20.2	\$0.0	\$10.9	(\$8.4)	(\$59.7)	(\$8.2)
10/10/2013	MacroGenics, Inc.	\$16.00	5.0	\$80.0	\$42.2	\$0.0	\$48.8	(\$2.3)	(\$3.2)	(\$1.3)
7/17/2013	OncoMed Pharmaceuticals, Inc.	\$17.00	4.8	\$81.6	\$69.8	\$0.0	\$25.1	(\$19.0)	(\$20.3)	(\$17.7)
Median of All IPOs		nm	nm	\$80.0	\$34.5	\$0.0	\$21.9	(\$13.7)	(\$20.5)	(\$12.9)

nm: not meaningful, N/A: not applicable

Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/Revenues
9/11/2015	PacificGMP, Inc.	Abzena Inc.	\$8.4	100%	\$3.0	2.8x
6/1/2015	X-BODY, Inc.	Juno Therapeutics Inc.	\$42.8	100%	N/A	N/A
3/12/2015	KBI Biopharma Inc.	JSR Corporation; CMIC	\$100.0	100%	N/A	N/A
3/3/2015	SuppreMol GmbH	Baxter International Inc.	\$223.9	100%	N/A	N/A
9/23/2014	CFR Pharmaceuticals	Abbott Investments	\$2,659.3	73%	\$782.3	4.3x
4/30/2014	Shanghai PrimeGene	R&D Systems China	\$18.8	100%	\$4.0	4.7x
12/31/2013	Santarus, Inc.	Salix Pharmaceuticals	\$2,154.4	100%	\$337.8	5.9x
2/8/2013	YM BioSciences Inc.	Gilead Sciences Inc.	\$482.9	100%	\$1.1	N/A
8/2/2012	Human Genome Sciences Inc.	GlaxoSmithKline plc	\$3,674.4	100%	\$151.5	21.1x
4/18/2012	Epitomics, Inc.	Abcam Plc	\$153.9	100%	\$24.7	6.2x
3/5/2012	Micromet, Inc.	Amgen Inc.	\$1,016.4	100%	\$21.9	39.1x
2/10/2012	Inhibitex, Inc.	Bristol-Myers Squibb	\$2,579.0	100%	\$2.1	N/A
5/24/2011	MitoSciences Inc.	Abcam Plc	\$6.0	100%	\$2.1	2.9x
10/7/2010	ZymoGenetics, Inc.	Bristol-Myers Squibb	\$938.2	100%	\$162.8	4.5x
4/19/2010	Facet Biotech Corporation	Abbott Laboratories	\$747.4	100%	\$46.1	9.7x
3/4/2010	BioXell S.p.A.	Cosmo Pharmaceuticals	\$40.4	100%	\$0.4	N/A
Median of the	16 M&A Transaction Target	\$353.4	100%	\$21.9	5.3x	





## Definitions of Financial Terms Used in this Quarterly Industry Update:

Enterprise Value (EV): Market Value of Equity + Market Value of Debt - Cash

Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA): Profitability metric sometimes also referred to as operating profit or operating earnings.

Gross Cash Flows: Net Income + Depreciation and Amortization Expense

Latest Twelve Months (LTM): Financial information is as of the latest twelve months through the date of this Quarterly Industry Update.

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