### Q3: Quarterly Industry Update

AS OF September 30, 2020



#### **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, 2019, the median 52-week share price return of the Monoclonal Antibodies industry was 24.4%. Between September 30, 2019 and September 30, 2020, the median EV/Revenue multiple increased from 8.4 to 8.5. This industry is not profitable and all other valuation multiples based on profitability metrics were not meaningful. The median revenue growth and EBITDA margins for the industry for the quarter were -5.5% and -53.2%, respectively.

Public Company Key Statistics

Median 52-Week Return

24.4%

Median 3-Year CAGR Return

8.5%

Median EV/Revenue Multiple

2x

#### Comparable Public Company Market Price Returns as of September 30, 2020

	2020	3 Month	1 Year	2 Year	2019	2018	2017	2016
Alder Biopharmaceuticals, Inc.	10.9%	10.9%	-38.9%	-38.9%	-45.0%	-37.0%	13.5%	N/A
AVEO Pharmaceuticals, Inc.	3.9%	3.9%	391.5%	73.7%	416.7%	-57.1%	50.0%	-54.1%
Celldex Therapeutics, Inc.	-24.7%	-24.7%	-36.2%	-47.9%	79.7%	-77.4%	-14.1%	-24.6%
Halozyme Therapeutics, Inc.	-18.0%	-18.0%	-35.5%	13.7%	-19.8%	-43.0%	79.6%	-35.6%
Immunomedics, Inc.	-3.3%	-3.3%	51.2%	185.1%	105.1%	19.5%	-36.0%	4.3%
Infinity Pharmaceuticals, Inc.	-9.6%	-9.6%	125.8%	-60.3%	340.3%	-82.8%	-53.5%	22.3%
Omeros Corporation	3.4%	3.4%	-35.0%	40.5%	50.4%	-36.9%	-36.5%	119.5%
OncoMed Pharmaceuticals, Inc.	-42.5%	-42.5%	-26.1%	-47.8%	95.9%	-65.8%	3.6%	-26.3%
PDL BioPharma, Inc.	-22.4%	-22.4%	-65.5%	-17.9%	-46.8%	-40.1%	-54.1%	-8.6%
Peregrine Pharmaceuticals, Inc.	7.3%	7.3%	29.5%	-33.7%	29.2%	-73.6%	-15.8%	0.0%
Repligen Corporation	-0.3%	-0.3%	2.8%	17.3%	17.7%	8.9%	42.9%	45.2%
Sorrento Therapeutics, Inc.	35.5%	35.5%	30.4%	-55.0%	-22.4%	-43.7%	-13.5%	24.3%
XOMA Corporation	-43.2%	-43.2%	184.5%	14.3%	743.6%	-84.1%	-63.0%	-46.7%
Median of Industry Public Companies	-3.3%	-3.3%	2.8%	-17.9%	50.4%	-43.7%	-14.1%	-4.3%

Multiple year periods are calculated as the average annual return.



#### Industry Revenue Growth and Profit Margins for the Past Two Years



## Industry Initial Public Offerings—Monoclonal Antibodies (dollars in millions, except share prices)

Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	Total Assets	Debt	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
9/13/20	Aridis Pharmaceuticals, Inc.	\$13.00	0.0	\$8.8	\$24.8	\$0.0	\$0.0	(\$42.5)	(\$48.9)	(\$43.0)
8/19/20	Provention Bio, Inc.	\$4.00	4.0	\$40.0	\$44.4	\$12.5	\$2.4	\$0.2	(\$6.6)	(\$6.4)
3/7/20	Forty Seven, Inc.	\$16.00	6.7	\$100.0	\$98.5	\$67.9	\$0.0	(\$30.0)	(\$31.3)	(\$13.5)
12/23/19	InflaRx N.V.	\$15.00	29.2	\$86.9	\$116.8	\$0.0	\$0.0	(\$16.2)	(\$57.1)	(\$53.7)
8/13/18	Aridis Pharmaceuticals, Inc.	\$17.00	24.6	\$902.6	N/A	\$61.7	\$22.6	\$11.3	\$1,158.0	\$1,391.1
7/19/18	Provention Bio, Inc.	\$1.09	5.8	\$35.0	\$344.4	\$14.7	\$801.8	(\$22.6)	(\$35.7)	(\$18.1)
	Median of all IPOs	nm	nm	\$63.4	\$98.5	\$13.6	\$1.2	(\$18.1)	(\$33.5)	(\$15.8)

Multiple year periods are calculated as the average annual return.

Highest Return L

Lowest Return

Median Return

## Size of Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

Transaction Date	Target	Acquirer	Transaction Size	% Bought
9/21/20	Visterra, Inc.	Otsuka America, Inc.	\$430.0	100%
8/22/20	Hunan ProMab Biotechnologies	NanHua Bio-medicine Co.	\$7.7	100%
11/22/19	U-Protein Express B.V.	ImmunoPrecise Antibodies	\$8.2	100%
12/20/18	Ganymed Pharma	Astellas Pharma Inc.	\$1,401.6	100%
6/30/17	EPIRUS Biopharmaceuticals	Polpharma SA Pharmaceutical	\$3.5	100%
5/31/16	Effimune SA	OSE Pharma SA	\$34.4	100%
4/18/16	Biotie Therapies Corp.	Acorda Therapeutics, Inc.	\$341.6	100%
10/30/15	Dyax Corp.	Shire Pharmaceuticals	\$5,907.0	100%
9/11/15	PacificGMP, Inc.	Ligand Pharmaceuticals	\$178.0	100%
6/1/15	X-BODY, Inc.	Juno Therapeutics, Inc.	\$42.8	100%

USA International (Continued on next page)

# Size of Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

(Continued from previous page)

Transaction Date	Target	Acquirer	Transaction Size	% Bought
3/12/20	KBI Biopharma Inc.	JSR Corporation	\$100.0	100%
3/3/19	SuppreMol GmbH	Baxter International Inc.	\$223.9	100%
9/23/17	CFR Pharmaceuticals	Abbott Investments	\$2,659.3	73%
4/30/17	Shanghai PrimeGene	R&D Systems China	\$18.8	100%
12/31/13	Santarus, Inc.	Salix Pharmaceuticals	\$2,154.4	100%
8/2/12	Human Genome Sciences Inc	. GlaxoSmithKline plc	\$3,682.2	100%
4/18/12	Epitomics, Inc.	Abcam Plc	\$153.9	100%
3/5/12	Micromet, Inc.	Amgen Inc.	\$1,016.4	100%
	Median of the 21 M&A Transa	ction Targets	\$166.0	100%

## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of September 30, 2020





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**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): 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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