The Brookline Brief

Healthcare Equity Capital Markets Update

January 31, 2023



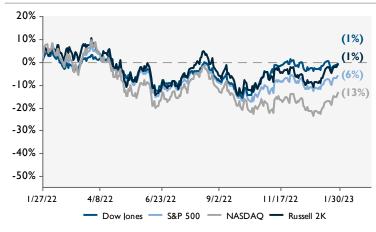
Equity Market / New Issue Market Tailwinds

- > The SPDR S&P Biotech ETF (XBI) climbed +7.7% through the first 4-plus weeks of the year, outpacing both the iShares Biotechnology ETF (IBB) (+4.5%) and the Invesco Dynamic Pharmaceuticals ETF (PJP) (-0.4%) to start the new year. By contrast, the S&P 500 Pharmaceutical (Industry) is down ~6.02% so far YTD spurring hopes that cooling inflation may facilitate a resilient rotation into the smaller-cap subsegment of the US biotech sector in 2023.
- > Overall inflation continued to cool throughout the second half of 2022, closing out December 2022 at 6.5% on a year-over-year basis (versus December 2021) marking the lowest CPI print for all of CY 2022 and the best since November 2021 (+6.2% on a year-over-year basis). In addition, while the overall US labor market remained tight in Q4 2022, many were encouraged by softer-than-expected wage gains, which climbed just 4.6% on a year-over-year basis during December representing the most modest year-over-year increase on a monthly basis since mid-2021.
- > The FDA approved 6 new therapeutic drug applications through the first several weeks of 2023 and granted an approval to Eisai (ESALY) and Biogen (BIIB) for the pair's second-generation amyloid beta-targeted monoclonal antibody, LEQEMBI, for the treatment of Alzheimer's Disease on the basis of encouraging Phase II data (n=856 patients). Though some investors remain skeptical of the Agency's recent track-record in the Alzheimer's Disease treatment setting following its landmark Accelerated Approval decision for ESALY/BIIB's first-generation amyloid beta monoclonal, ADUHELM (aducanumab), others viewed the LEQEMBI approval as another meaningful step forward for the industry and an encouraging signal of the Agency's commitment to flexibility in difficult-to-treat disease settings heading into 2023.

Equity Market / New Issue Market Headwinds

- While overall inflation decreased in December, core inflation increased 0.3% month-over-month, capping off a 5.7% annual increase on an annualized basis versus CY 2021. Despite market optimism about the potential for a Fed policy pivot this year, Fed officials remained reluctant to hint at a potential interest rate cut in 2023. Further, economists surveyed by The Wall Street Journal earlier this month projected a median probability of a recession of 61% in the next 12 months representing a consensus figure in-line with expectations during a recession and one on-par with estimates heading into 2H 2008 and in early 2020. Finally, recent macro data suggested that the US has already begun to witness a decline in economic output, with month-over-month decreases in December in retail sales (-1.3%), manufacturing output (-1.1%), and sales of previously owned homes (-1.5%).
- The IPO market remained quiet through the first few weeks of the new year, with only 5 new healthcare IPOs filed since Jan. 1, 2023 representing the fewest number of new IPO filings over the first four weeks of a new year since 2019.
- The prevalence of "investor-friendly" terms for follow-on offerings completed by companies at the smaller-end of the market cap spectrum remained a source of frustration for small, cash-constrained issuers over the past 4-plus weeks, with 11 of the 16 "micro-cap" follow-on offerings completed since Jan. 1st featuring at least 100% warrant coverage-indicating, to some, that the capital-raising balance-of-power remains firmly in favor of investors through the first few weeks of 2023. Since July 1, 2022, just 39 "micro-cap" follow-on offerings (39 / 133; 29%) have avoided conceding warrant coverage in any capacity while the overwhelming majority (94 / 133) have conceded warrant coverage of 100% or more.

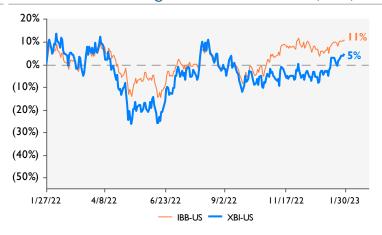
General Indices (LTM)



CBOE Market Volatility Index (VIX)



Biotech Tracking Funds: XBI and IBB (LTM)



U.S. Treasury Yields (LTM)



Sources: FactSet, Bloomberg, Brookline Capital Markets Investment Banking Data, US Food & Drug Administration Data. Market data as of 4:00 PM on Jan. 27, 2023, unless otherwise noted.



Major US Indices ETF Performance - Monthly Performance Montage (2022 to 2023 YTD)

<u>Dow Jones</u> iShares Dow Jones ETF (**DIA**)

<u>S&P 500</u> SPDR S&P 500 ETF (**SPY**)

NASDAQ Fidelity NASDAQ Comp (**ONEQ**)

Russell 2000 iShares Russell 2000 ETF (**IWM**)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Full Yr / YTD
2023	+2.5%												+2.5%
2022	-3.4%	-3.3%	+2.2%	-4.9%	+0.2%	-6.8%	+6.8%	-4.0%	-9.0%	+14.0%	+5.7%	-4.3%	-8.8%
2023	+6.1%												+6.1%
2022	-5.3%	-3.0%	+3.4%	-8.8%	+0.2%	-8.6%	+9.2%	-4.1%	-9.6%	+8.1%	+5.6%	-6.2%	-19.5%
2023	+11.1%												+11.1%
2022	-8.8%	-3.3%	+3.5%	-13.3%	-1.9%	-8.7%	+12.5%	-4.6%	-10.5%	+4.0%	+4.4%	-9.0%	-32.7%
2023	+8.7%												+8.7%
2022	-9.5%	+1.0%	+1.0%	-9.9%	+0.2%	-8.6%	+10.6%	-2.0%	-10.1%	+11.2%	+2.2%	-6.9%	-21.6%

Major US Index ETFs - Q1 2023 QTD Performance (1)

DOW

+2.50%

S&P 500

+6.08%

NASDAQ

+11.13%

RUSSELL

+8.73%

Major US Index ETF Constituents - Largest Movers During Q1 2023 QTD (1)

D	Company	Ticker	% Chg.
0	Walt Disney	DIS-US	+26.1%
	Salesforce	CRM-US	+24.1%
W	Dow	DOW-US	+17.0%
	American Express	AXP-US	+16.6%
	Apple	AAPL-US	+12.3%
	UnitedHealth Group	UNH-US	(8.3%)
	Procter & Gamble	PG-US	(7.3%)
	Merck & Co	MRK-US	(5.0%)
	Coca-Cola	KO-US	(4.9%)
	Johnson & Johnson	JNJ-US	(4.8%)

N	Company	Ticker	% Chg.
Α	Digihost Technology	DGHI-US	+486.1%
	Cuentas	CUEN-US	+477.9%
S	BuzzFeed	BZFD-US	+461.2%
D	AppHarvest	APPH-US	+365.3%
А	MicroCloud Hologram	HOLO-US	+342.7%
Q	Calithera Biosciences	CALA-US	(88.3%)
	Schmitt Industries	SMIT-US	(87.4%)
	Quotient Ltd	QTNT-US	(84.2%)
	Oramed Pharmaceuticals	ORMP-US	(83.9%)
	Bit Brother	BTB-US	(80.8%)

S	Company	Ticker	% Chg.
&	Warner Bros. Discovery	WBD-US	+57.3%
	Tesla	TSLA-US	+44.4%
P	Western Digital	WDC-US	+42.5%
	NVIDIA	NVDA-US	+39.4%
	Carnival (US)	CCL-US	+36.7%
	Enphase Energy	ENPH-US	(20.7%)
	Northrop Grumman	NOC-US	(19.8%)
	Pfizer	PFE-US	(14.5%)
	Charles Schwab	SCHW-US	(10.3%)
	McCormick	MKC-US	(10.2%)

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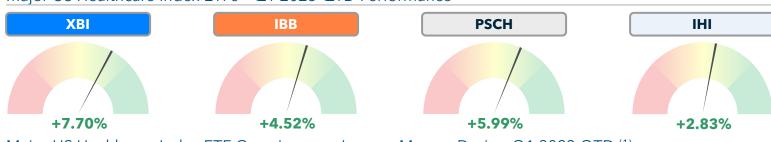
Company	Ticker	% Chg.
AppHarvest	APPH-US	+365.3%
Core Scientific	CORZ-US	+222.5%
Greenidge Generation	GREE-US	+203.4%
Faraday Electric	FFIE-US	+202.0%
Cipher Mining	CIFR-US	+162.5%
Rockley Photonics	RKLY-US	(75.1%)
Party City Holdco	PRTY-US	(68.1%)
Tricida	TCDA-US	(67.9%)
Vera Therapeutics	VERA-US	(54.8%)
Fate Therapeutics	FATE-US	(41.3%)

^{(1):} Note: Index and individual stock performance (% chg.) indexed to each security's respective closing price on December 31, 2022. Sources: FactSet, Bloomberg, Brookline Capital Markets Investment Banking Data.
Market data as of 4:00 PM on Jan. 27, 2023, unless otherwise noted.

Healthcare ETF Performance - Monthly Performance Montage (2022 to 2023 YTD)

	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Full Yr / YTD
SPDR S&P	2023	+7.7%												+7.7%
Biotech ETF (XBI)	2022	-16.6%	-3.9%	+0.1%	-17.9%	-6.8%	+8.0%	+9.2%	+3.2%	-5.2%	+3.6%	+1.8%	-0.7% -3.8%	-25.9%
<u>iShares NASDAQ</u>	2023	+4.5%												+4.5%
Biotech ETF (IBB)	2022	-13.6%	-4.4%	+3.4%	-10.5%	+0.0%	+0.8%	+5.5%	-2.1%	-3.7%	+9.9%	+6.2%	-3.8%	-14.0%
Invesco S&P SmallCap	2023	+6.0%												+6.0%
Healthcare ETF (PSCH)	2022	-13.0%	+2.5%	+0.5%	-10.9%	-3.1%	-1.5%	+9.8%	-6.2%	-6.6%	+4.3%	+2.5%	-6.2%	-26.5%
iShares U.S. Medical	2023	+2.8%												+2.8%
<u>Devices ETF</u> (IHI)	2022	-10.4%	+0.3%	+3.0%	-9.7%	-1.1%	-7.3%	+6.5%	-6.0%	-6.6%	+6.4%	+5.7%	-0.9%	-20.2%

Major US Healthcare Index ETFs - Q1 2023 QTD Performance (1)



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Major US Healthcare Index ETF Constituents - Largest Movers During Q1 2023 QTD (1)

X	Company	Ticker	% Chg.
В	Atara Biotherapeutics	ATRA-US	+60.7%
	Intercept Pharmaceuticals	ICPT-US	+48.7%
	Kymera Therapeutics	KYMR-US	+47.6%
	Relay Therapeutics	RLAY-US	+46.5%
	2seventy bio	TSVT-US	+41.4%
	Fate Therapeutics	FATE-US	(41.3%)
	AnaptysBio	ANAB-US	(22.2%)
	Immunity Bio (fka NK)	IBRX-US	(21.0%)
	Altimmune	ALT-US	(19.6%)
	Design Therapeutics	DSGN-US	(19.4%)

P	Company	Ticker	% Chg.
S	Heska Corp	HSKA-US	+40.6%
	Myriad Genetics	MYGN-US	+40.4%
C	Joint	JYNT-US	+33.8%
Н	BioLife Solutions	BLFS-US	+29.1%
	Xencor	XNCR-US	+24.8%
	Cutera	CUTR-US	(22.6%)
	SurModics	SRDX-US	(21.8%)
	Catalyst Pharmaceuticals	CPRX-US	(16.6%)
	Harmony Biosciences	HRMY-US	(11.9%)
	Ironwood Pharmaceuticals	IRWD-US	(7.3%)

Company	Ticker	% Chg.
Aurinia Pharmaceuticals	AUPH-US	+116.9%
Werewolf Therapeutics	HOWL-US	+100.0%
Praxis Precision Medicines	PRAX-US	+100.0%
Aligos Therapeutics	ALGS-US	+98.3%
Olema Oncology	OLMA-US	+92.2%
Tricida	TCDA-US	(67.9%)
BioAtla	BCAB-US	(55.4%)
Graphite Bio	GRPH-US	(41.6%)
Fate Therapeutics	FATE-US	(41.3%)
Wave Life Sciences	WVE-US	(38.4%)

Company	Ticker	% Chg.
STAAR Surgical Co	STAA-US	+48.1%
Heska Corp	HSKA-US	+40.6%
NanoString Technologies	NSTG-US	+35.3%
SI-BONE	SIBN-US	+26.5%
NovoCure	NVCR-US	+23.9%
SurModics	SRDX-US	(21.8%)
Tandem Diabetes Care	TNDM-US	(10.6%)
Baxter Intl	BAX-US	(9.8%)
PROCEPT BioRobotics	PRCT-US	(9.7%)
Shockwave Medical	SWAV-US	(8.6%)

^{(1):} Note: Index and individual stock performance (% chg.) indexed to each security's respective closing price on December 31, 2022.

Sources: FactSet, Bloomberg, Brookline Capital Markets Investment Banking Data.

Market data as of 4:00 PM on Jan. 27, 2023, unless otherwise noted.

Selected Healthcare ETF Fund Flows: Weekly Net ETF Fund Flow Data - Last 3 Months Weekly Fund Flow (XBI) **XBI Closing Price** SPDR S&F Biotech ETF (XBI) \$1,000mm -\$95.00 \$400mm \$300mm \$90.00 \$200mm \$100mm \$0mm \$85.00 \$-100mm \$-200mm \$80.00 \$-300mm \$-400mm \$-1,500mm \$75.00 Oct. '22 Nov. '22 Dec. '22 Jan. '23 iShares NASDAQ Weekly Fund Flow (IBB) **IBB Closing Price** Biotech ETF (IBB) \$400mm \$140.00 \$300mm \$135.00 \$200mm \$130.00 \$100mm \$0mm \$125.00 \$-100mm \$120.00 \$-200mm \$115.00 \$-300mm \$-400mm \$110.00 Nov. '22 Oct. '22 Dec. '22 Jan. '23 Selected Healthcare ETF Fund Flows: Weekly Net ETF Fund Flow Data - January 2015 to Current Weekly Fund Flow (XBI) **XBI Closing Price** SPDR S&P Biotech ETF (XBI) \$2,000mm \$180.00 \$1,000mm \$160.00 \$800mm. \$600mm \$140.00 \$400mm \$200mm \$120.00 \$0mm \$-200mm \$100.00 \$-400mm \$80.00 \$-600mm \$-800mm \$60.00 \$-1,000mm \$-2,000mm -\$40.00 2015 2016 2017 2018 2019 2020 2021 2022 Weekly Fund Flow (IBB) **IBB** Closing Price iShares NASDAO \$1,000mm \$180.00 Biotech ETF (IBB) \$800mm \$600mm \$160.00 \$400mm \$200mm \$140.00 \$0mm \$120.00 \$-200mm \$-400mm \$-600mm \$100.00 \$-800mm \$-1,000mm \$80.00

2017

2018

2019

2020

2021

2016

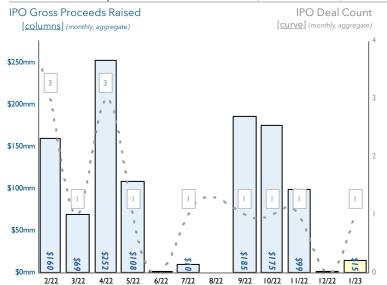
Note: ETF fund flow data reflects weekly net fund flow, unless otherwise noted. Sources: FactSet, Bloomberg, Brookline Capital Markets Investment Banking Data. Market data as of 4:00 PM on Jan. 27, 2023, unless otherwise noted.

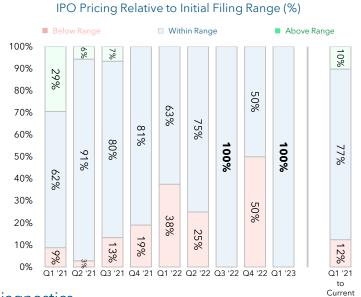
2015

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NEW YORK NEW YORK 10017

2022

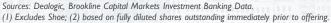
IPO Market Update - Life Sciences, Med. Tech, and Diagnostics





Selected Recent IPOs - Life Sciences, Med. Tech, and Diagnostics

Company	Ticker	Indication	Offer Date	Offer Price	Gross Proceeds Raised (1)	Pre-Money Equity Valuation (2)	Initial	Disclosed Insider Part. (%)	% Change Offer / Current
Genelux	GNLX	Oncology (OCV immunotherapy)	01-26-23	\$6.00	\$15.0mm	\$128.1mm	In Range		+0.2%
Acrivon Therapeutics	ACRV	Oncology (CHK1/2 inhibitor)	11-15-22	\$12.50	\$99.4mm	\$182.8mm	Below	89%	+16.2%
Prime Medicine	PRME	Gene Editing (PRIME edit / pegRNA + CaS)	10-20-22	\$17.00	\$175.0mm	\$1,500.8mm	In Range	63%	+2.6%
Third Harmonic Bio	THRD	Immunology (urticaria / KIT inhibitor)	09-15-22	\$17.00	\$185.3mm	\$496.0mm	In Range		(74.9%)
Maia Biotechnology	MAIA	Oncology(telomere-targeting sm. mol.)	07-28-22	\$5.00	\$10.0mm	\$58.4mm	In Range		(10.3%)
PepGen	PEPG	Rare Diseases (DMD / exon-51 skipping EDO)	05-06-22	\$12.00	\$108.0mm	\$169.5mm	Below	46%	+34.3%
Belite Bio	BLTE	Ophthalmology (STGD1 / RBP4 antagonist)	04/29-22	\$6.00	\$36.0mm	\$119.6mm	In Range	42%	+399.2%
Hillevax	HLVX	Infectious Diseases (VLP Norovirus vaccines)	04-29-22	\$17.00	\$200.0mm	\$449.8mm	In Range	5%	(11.4%)
Tenon Medical	TNON	Med. Tech (SI-Joint fixation/fusion surgery)	04-27-22	\$5.00	\$16.0mm	\$40.6mm	In Range		(55.4%)
AN2 Therapeutics	ANTX	Infectious Diseases (LeuRS inhibitor / NTMLD)	03-25-22	\$15.00	\$69.0mm	\$226.9mm	In Range	61%	(16.2%)
Blue Water Vaccines	BWV	Infectious Diseases (ELV / univ. flu vaccine)	02-18-22	\$9.00	\$20.0mm	\$85.2mm	In Range		(85.7%)
Arcellx	ACLX	Oncology(next-gen CAR-T / CART-ddBCMA)	02-04-22	\$15.00	\$123.8mm	\$434.8mm	In Range	5%	+126.3%
Nuvectis Pharma	NVCT	Oncology (HSF1 inhibitor)	02-04-22	\$5.00	\$16.0mm	\$48.2mm	Below	44%	+59.6%
Hillstream BioPharma	HILS	Oncology (ferroptosis / IMCD inducer)	01-12-22	\$4.00	\$15.0mm	\$29.9mm	Below		(85.0%)
Amylyx Pharma	AMLX	CNS (ALS / UPR-Bax inhibitor)	01-07-22	\$19.00	\$190.0mm	\$955.8mm	In Range		+115.4%
Cincor Pharma	CINC	CV Diseases (rHTN / aldosterone inhibitor)	01-07-22	\$16.00	\$193.6mm	\$417.9mm	In Range	5%	+80.0%
Vigil Neuroscience	VIGL	CNS (Rare Diseases / TREM2 mAb)	01-07-22	\$14.00	\$98.0mm	\$302.2mm	Below	5%	(20.6%)
Immix Biopharma	IMMX	Oncology (GLUT-1 x PCC inhibitor)	12-16-21	\$5.00	\$21.0mm	\$42.9mm	In Range		(52.0%)
Genenta Science	GNTA	Oncology (aHSPC / Tie2 LVV)	12-15-21	\$11.50	\$35.9mm	\$172.5mm	In Range	23%	(48.1%)
Journey Medical	DERM	Dermatology (doxycycline / severe acne)	11-12-21	\$10.00	\$35.2mm	\$163.6mm	In Range		(80.0%)
Vaxxinity	VAXX	CNS (A-B peptide vaccine / Alzheimer's)	11-11-21	\$13.00	\$78.0mm	\$1,982.8mm	Below	5%	(72.5%)
Tivic Health Systems	TIVC	Med. Tech (electric-wave sinus)	11-10-21	\$5.00	\$15.0mm	\$36.6mm	In Range		(85.2%)
IO Biotech	IOBT	Oncology (IDO x PD-L1)	11-04-21	\$14.00	\$100.1mm	\$322.4mm	In Range	5%	(79.9%)
Aura Biosciences	AURA	Oncology (VLP conjugate)	10-28-21	\$14.00	\$75.6mm	\$349.3mm	In Range		(28.1%)
Entrada Therapeutics	TRDA	Rare Diseases (DMD / EEV Therapeutics)	10-28-21	\$20.00	\$181.5mm	\$449.7mm	In Range		(39.7%)

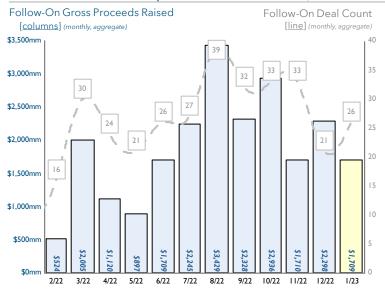


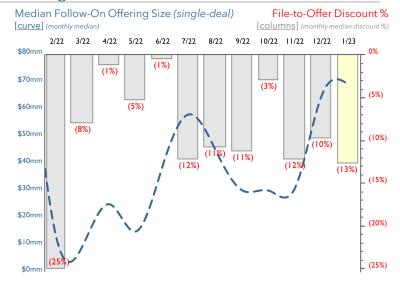
Note: All offerings <\$10mm have been excluded. Includes life sciences, medical technology, and diagnostics companies.

Market data as of 4:00 PM on Jan. 27, 2023, unless otherwise noted.



Follow-On Market Update - Life Sciences, Med. Tech, and Diagnostics





Selected Recent Follow-Ons / CMPOs / Reg. Directs / PIPEs - Life Sciences, Med. Tech, and Diagnostics

Company	Ticker	Indication	Offer Date	SEC Form	Offer Price	Gross Proceeds Raised (1)	Pre-Offer Market Cap ⁽²⁾	% Change 5 File / Offer	% Change Offer / Current
Avenue Therapeutics ††	ATXI	CNS (Pain)	01-27-23	R/D	\$1.55	\$3.3mm	\$7.9mm	+8.1%	(11.0%)
GeneDx (fka Sema4) [FF]	WGS	Med. Tech. (Next-Gen Sequencing)	01-27-23	СМРО	\$0.35	\$150.0mm	\$145.3mm	(8.1%)	+20.0%
Nemaura Medical ††	NMRD	Med. Tech (Diagnostics)	01-27-23	R/D	\$1.70	\$8.4mm	\$68.9mm	(38.8%)	(2.9%)
Sol-Gel Technologies ††	SLGL	Dermatology (Acne)	01-27-23	R/D	\$5.00	\$22.8mm	\$116.0mm	(0.3%)	+3.2%
Inhibikase Therapeutics ††	IKT	CNS (Parkinson's Disease)	01-26-23	R/D	\$0.86	\$10.0mm	\$26.7mm	(18.9%)	(23.5%)
Paragon 28 [FF]	FNA	Med. Tech (orthopedic devices)	01-26-23	СМРО	\$17.00	\$110.5mm	\$1,532.3mm	(15.3%)	(1.2%)
Panbela Tx. (fka SNBP) †††	PBLA	Oncology (Synthetic Polyamine)	01-26-23	S-1	\$2.25	\$15.0mm	\$5.5mm	(38.9%)	(36.4%)
Jasper Therapeutics [FF]	JSPR	Oncology (CD117 mAb)	01-25-23	СМРО	\$1.50	\$90.0mm	\$68.1mm	(11.2%)	+16.0%
Pacific Biosciences	PACB	Pharma Services (CRO)	01-25-23	СМРО	\$10.00	\$175.0mm	\$2,457.0mm	(7.7%)	+17.8%
Precigen (fka XON)	PGEN	Endocrinology (T1D)	01-25-23	СМРО	\$1.75	\$75.0mm	\$466.4mm	(20.1%)	(6.3%)
Pliant Therapeutics	PLRX	Idiopathic Pulmonary Fibrosis	01-25-23	СМРО	\$30.00	\$250.0mm	\$1,573.1mm	(0.9%)	+16.2%
Apexigen ††	APGN	Oncology (CD-40 mAb)	01-24-23	PIPE	\$1.40	\$2.9mm	\$41.3mm	(23.5%)	+29.3%
Cymabay Therapeutics	CBAY	Renal Disease	01-24-23	СМРО	\$7.00	\$85.0mm	\$599.4mm	+5.9%	+11.4%
Deciphera Pharma	DCPH	Oncology (KIT / PDGFRα)	01-20-23	СМРО	\$18.00	\$125.0mm	\$1,572.2mm	(12.7%)	(3.8%)
bluebird bio	BLUE	Oncology (BCMA CAR-T)	01-19-23	СМРО	\$6.00	\$120.0mm	\$603.7mm	(17.6%)	+4.7%
Jupiter Wellness †††	JUPW	Dermatology (Cannabinoid Topicals)	01-19-23	R/D	\$0.95	\$4.1mm	\$22.6mm	(5.9%)	(32.2%)
Olink	OLK	Med. Tech (Proteomics Services)	01-19-23	СМРО	\$20.00	\$85.0mm	\$2,865.2mm	(16.8%)	(1.6%)
Fulcrum Therapeutics	FULC	Gene Therapy (p38 inhibitor)	01-18-23	СМРО	\$13.00	\$125.0mm	\$734.7mm	(7.1%)	(1.0%)
Myomo	MYO	Med Tech. (Robotics)	01-12-23	S-1	\$0.33	\$6.5mm	\$3.9mm	(41.3%)	+48.5%
Can-Fite Biopharma †††	CANF	Autoimmune Diseases (Psoriasis)	01-11-23	R/D	\$5.50	\$2.0mm	\$17.9mm	(16.3%)	(26.0%)
Biolase	BIOL	Med Tech. (Dental Imaging)	01-10-23	S-1	\$0.35	\$9.6mm	\$13.1mm	(78.3%)	+63.3%
OpGen †††	OPGN	Infectious Diseases	01-10-23	S-1	\$2.90	\$7.5mm	\$9.6mm	+9.4%	(33.8%)
Geron	GERN	Oncology (Telomerase inhibitor)	01-09-23	СМРО	\$2.45	\$198.2mm	\$1,470.0mm	(23.2%)	+36.3%
Landos Biopharma [FF]	LABP	IBD (LANCL2 - UC / Chron's)	01-06-23	PIPE	\$0.54	\$16.7mm	\$22.1mm	(1.8%)	(20.0%)
Vivos Therapeutics ††	VVOS	Med. Tech (mild-to-moderate OSA)	01-05-23	PIPE	\$1.20	\$8.0mm	\$43.3mm	(36.2%)	+9.2%

Sources: Dealogic, Brookline Capital Markets Investment Banking Data. Market data as of 4:00 PM on Jan. 27, 2023, unless otherwise noted.

Notes re: SEC Form: (S-I): fully marketed offering; (RID): registered direct offering; (CMPO): confidentially marketed public offering (S-3IF-3); (PIPE): private investment in public equity. (I) Excludes Shoe; (2) based on basic shares outstanding immediately prior to offering; †, ††, and ††† denote transactions with <100% warrant coverage, 100% to 199% warrant coverage, respectively. [FF] denotes transactions representing an issuer's first follow-on offering post-IPO (or rev. merger). (***) denotes OTC-to-NAS Uplisting I "NASDAQ IPO" (**) denotes ex-US public company dual listing I "US IPO." Dataset excludes transactions classified as convertible offerings and secondary offerings (block trades with no proceeds to issuers). Includes transactions completed by life sciences, medical technology, and diagnostics companies.



Firm Overview

Brookline Capital Markets is a full-service investment bank and was co-founded by three former colleagues with deep roots on Wall Street. The team is led by seasoned professionals, each with more than 25 years of capital markets, advisory and equity sales experience at some of the world's most prominent financial institutions such as Alex. Brown, Citi, Cowen, Credit Suisse First Boston, Deutsche Bank, Lazard, Leerink and Orbimed



Geography

North American focus with a global client network



Micro-Cap 'Smid" Cap Large Cap

ШШ Services

Selected Recent Transactions



Capital Markets Advisor Ongoing Engagement

Completed Engagement

Capital Markets Advisor

December 2022

∆dial



Ongoing Engagement



Capital Markets Advisor Ongoing Engagement



\$15,000,000 IPO Joint Bookrunner January 2023



\$2,800,000 PIPE Exclusive Engagement Agent January 2023



646.681.4650 robert.donohue@brooklinecapmkts.com Hayden Edwards

646.681.6716

Our Team

646.248.5085

646.681.4668

Harris Lydon

Graham A. Powis

646.248.5185

646 762 0826

Drew Crovello 646.603.6716

Forbes Crowley 646.603.6716

Robert Donohue

Scott Katzmann

William B. Buchanan, Jr.

bill.buchanan@brooklinecapmkts.com

scott.katzmann@brooklinecapmkts.com

harris.lydon@brooklinecapmkts.com

graham.powis@brooklinecapmkts.com

drew.crovello@brooklinecapmkts.com

forbes.crowley@brooklinecapmkts.com

hayden.edwards@brooklinecapmkts.com



646.248.5091 michael.fontaine@brooklinecapmkts.com

Edward Heaney

646.603.6718 edward.heaney@brooklinecapmkts.com

scotty.katzmann@brooklinecapmkts.com

Scotty Katzmann

646.248.5091

Michael D. Rhea 646.807.4125

michael.rhea@brooklinecapmkts.com

Zak Ross-Nash

646.462.4681 zak.rossnash@brooklinecapmkts.com

Joseph Rudick, M.D.

646.603.6716 joe.rudick@brooklinecapmkts.com

Patrick Sturgeon 646.681.4651

patrick.sturgeon@brooklinecapmkts.com

Noah Uzal

646.603.6716

noah.uzal@brooklinecapmkts.com

Jake Ward

646.248.5184

jake.ward@brooklinecapmkts.com

Samuel Wertheimer, Ph.D.

646.462.4718

sam.wertheimer@brooklinecapmkts.com

Equity Research

Leah Rush Cann 646.934.6976

leah.cann@brooklinecapmkts.com

Kemp Dolliver, CFA

781.258.0240

kemp.dolliver@brooklinecapmkts.com

Capital Markets Advisor

OUTLOOK THERAPEUTICS

\$31,800,000

Unsecured Convertible

Promissory Note

Financial Advisor

December 2022

SYR:S



\$14,500,000 Registered Direct Co-Placement Agent December 2022

SIMUNON

Capital Markets Advisor

Completed Engagement

November 2022



\$7,900,000 PIPE



BIOTHERAPEUTICS



\$555,000,000 Merger

AGBA Acquisition Corp.

Capital Markets Advisor November 2022



\$65,000,000

Follow-On Offering

Financial Advisor

December 2022

Capital Markets Advisor Completed Engagement September 2022



Co-Placement Agent December 2022

PATHeous Health

\$4,575,000

Series A

Convertible Preferred Stock

Sole Placement Agent

August 2022



Ainos

Capital Markets Advisor

Completed Engagement

\$3,300,000 Follow-On Offering Co-Manager August 2022



\$287,000,000 Merger Capital Markets Advisor August 2022



\$15,000,000 Registered Direct Financial Advisor June 2022



\$8,500,000 Registered Direct Financial Advisor June 2022



\$15,000,000 Series C-2 Convertible Preferred Stock Financial Advisor June 2022



Capital Markets Advisor Completed Engagement May 2022



Capital Markets Advisor Completed Engagement May 2022



\$45,000,000 Follow-On Offering Co-Manager April 2022



\$3,000,000 PIPE Exclusive Placement Agent March 2022



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