



The Biotech Growth Trust

ShareSoc Webinar

October 2024

Portfolio Managers: Geoffrey Hsu & Josh Golomb

Geoffrey Hsu, CFA

General Partner



Geoffrey C. Hsu, CFA, is a General Partner at OrbiMed and has been portfolio manager of The Biotech Growth Trust since May 2005.

Mr. Hsu joined OrbiMed in 2002 as a biotechnology analyst. Prior to joining OrbiMed, he worked as a financial analyst in the healthcare investment banking group at Lehman Brothers. Mr. Hsu received his A.B. degree summa cum laude from Harvard University and holds an M.B.A. from Harvard Business School. Prior to business school, he spent two years studying medicine at Harvard Medical School.

Josh Golomb

Partner

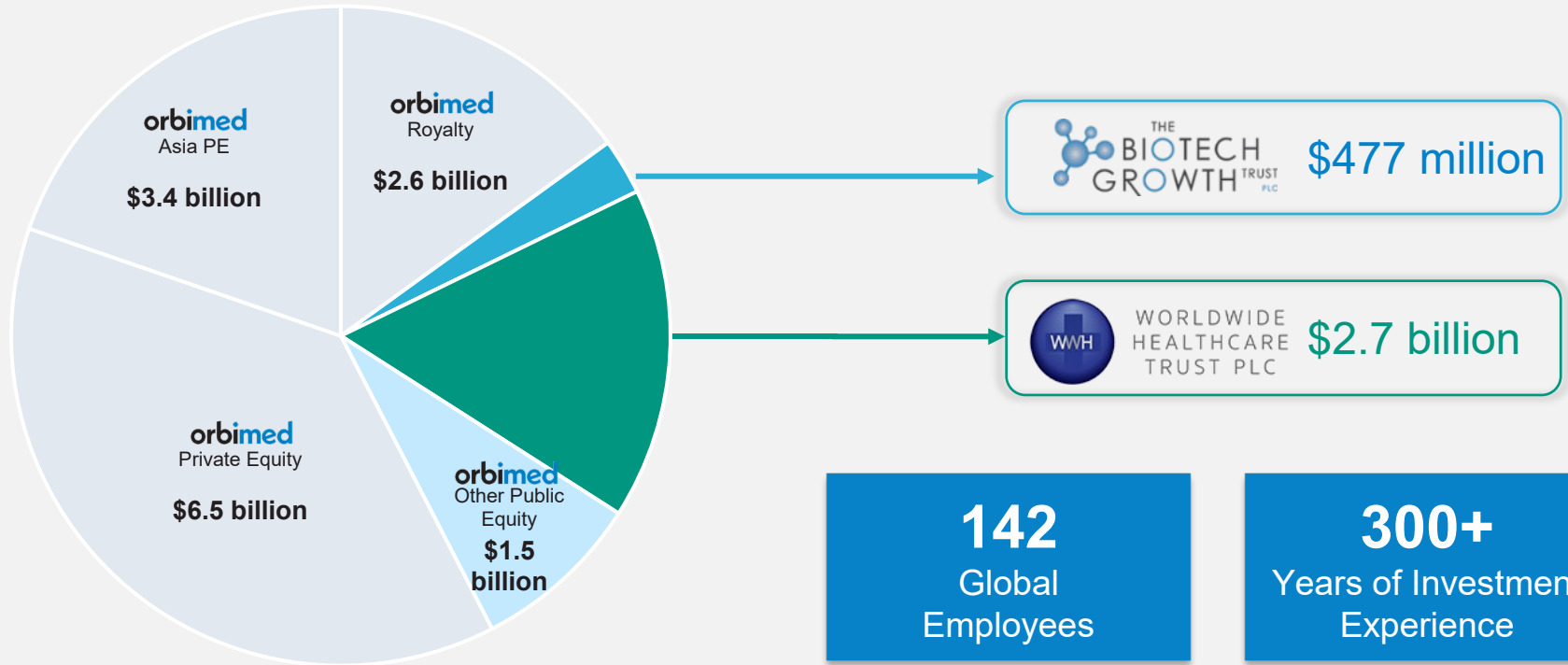


Josh Golomb is a Partner at OrbiMed focused on biotechnology. He joined the firm in 2021 and became a portfolio manager of The Biotech Growth Trust in 2023.

Mr. Golomb has covered the biotechnology and pharmaceutical sectors at investment firms since 2004. He was most recently employed at HealthCor, a healthcare-dedicated hedge fund, from 2016 to 2021 as a senior biotechnology and pharmaceutical analyst. Previously, he covered biotech at Millennium, Citadel, Diamondback and ProMed Partners. Mr. Golomb received a B.S. in Operations Research with a concentration in Engineering Management Systems from the Fu Foundation School of Engineering and Applied Science at Columbia University.

OrbiMed Corporate Update

Global Healthcare-Dedicated Investment Firm with Over 25 Years of Experience



Total AUM: \$17.1 billion

142
Global
Employees

300+
Years of Investment
Experience

20+
New Hires
in 2023/24

30
Colleagues with
M.D. / Ph.D.

Source: OrbiMed; Data estimated as of 30 September 2024

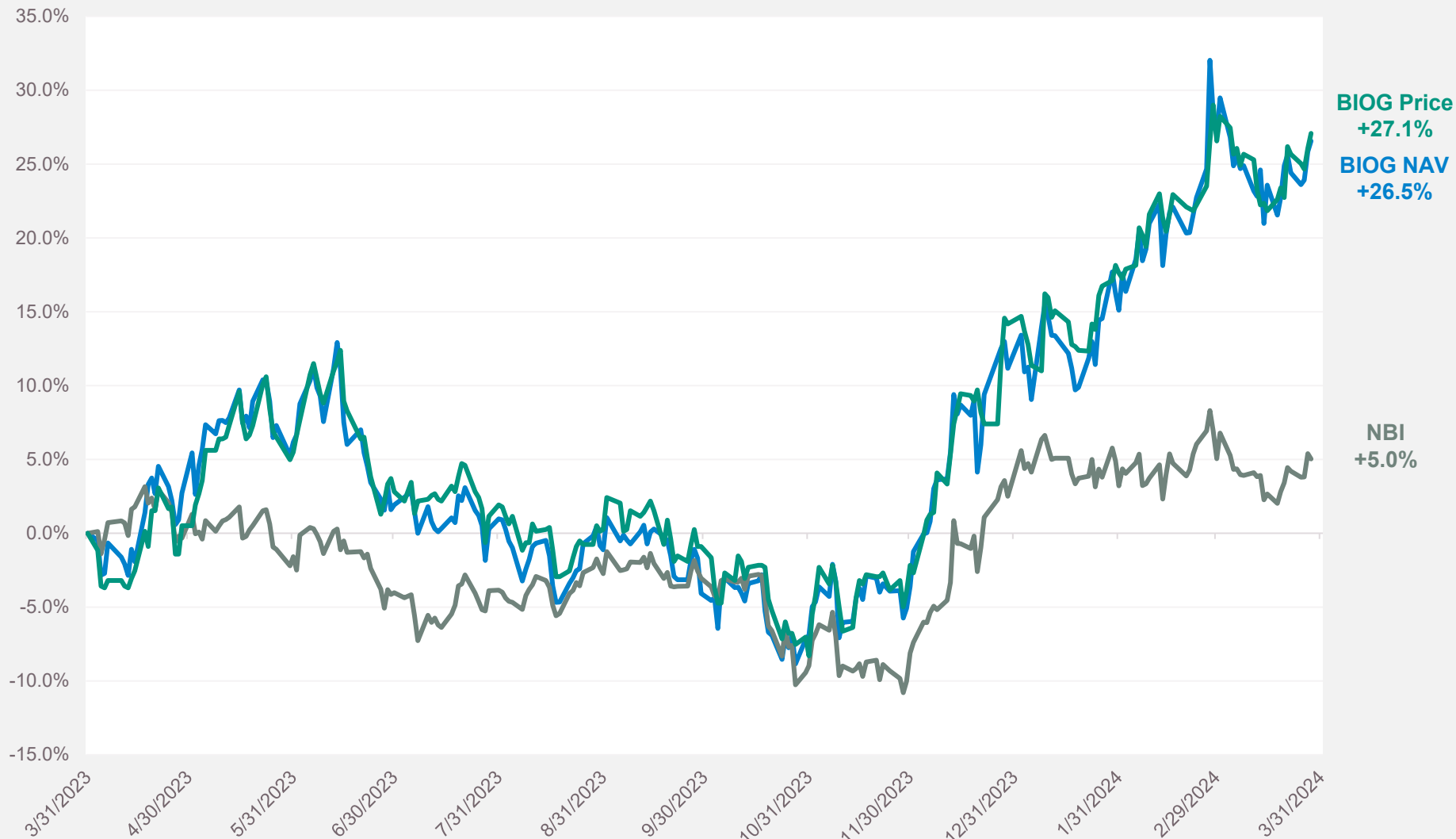


BLOG

Performance

BIOG Performance for Fiscal 2024

31 March 2023 to 31 March 2024



Source: Frostrow, Bloomberg.

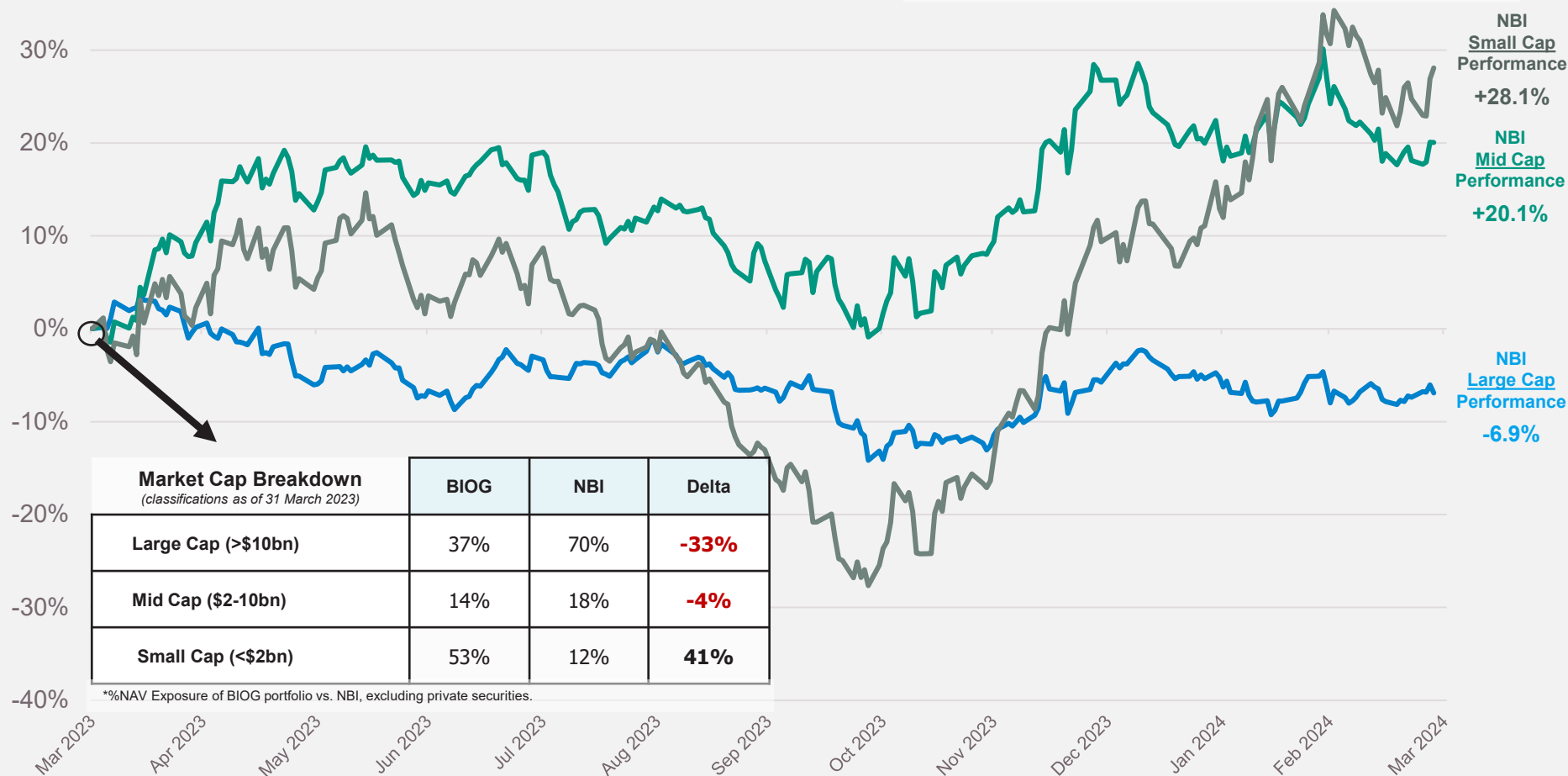
Note: See Endnotes for additional information, including with regard to the calculation of these results and the index shown above.

Market Cap Performance Divergence in Biotech

Small and Mid Cap Biotech Begins to Recover

Market Cap Breakdown (classifications as of 31 March 2024)	BIOG	NBI	Delta
Large Cap (>\$10bn)	32%	64%	-32%
Mid Cap (\$2-10bn)	33%	24%	9%
Small Cap (<\$2bn)	42%	12%	30%

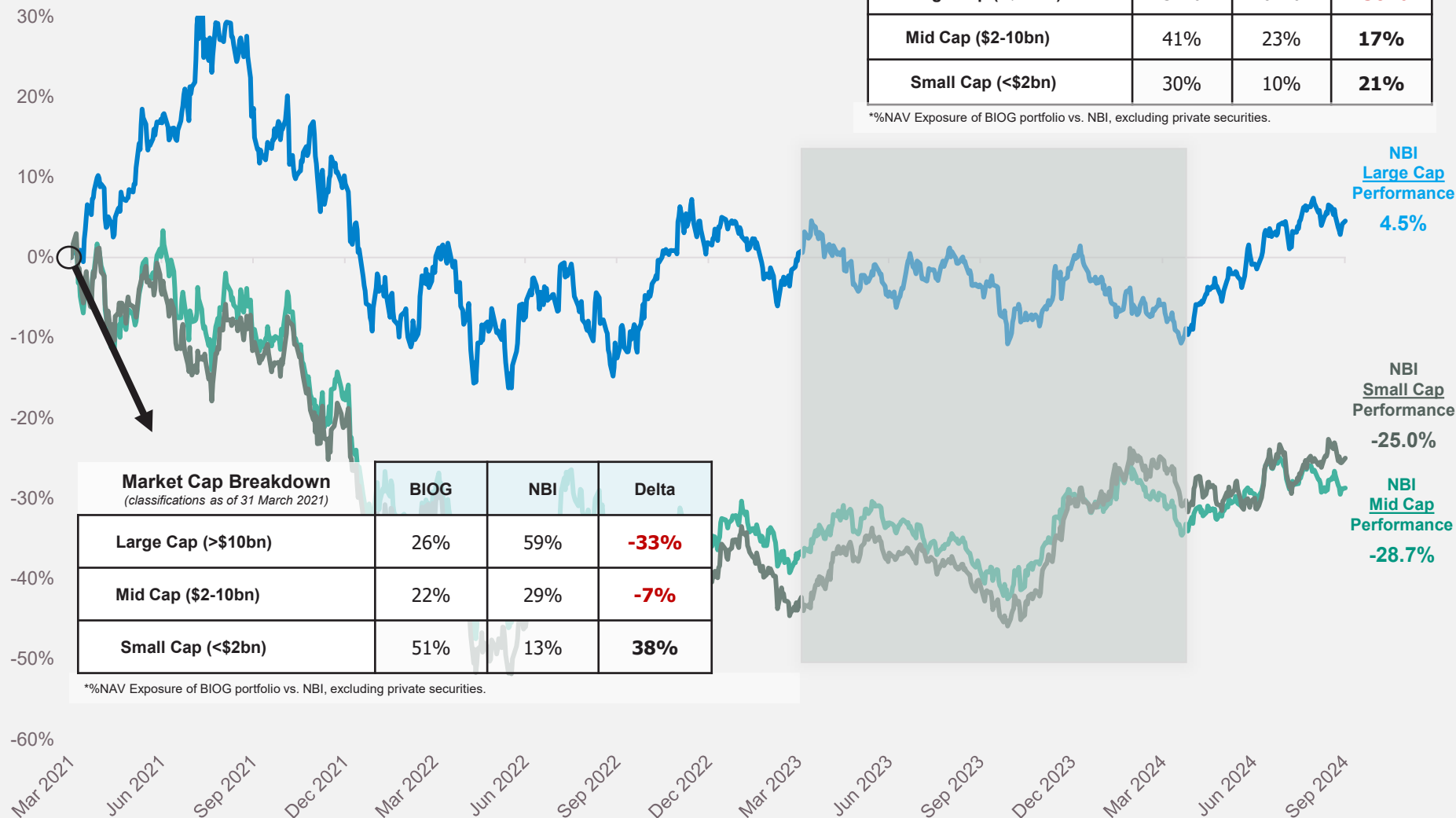
*%NAV Exposure of BIOG portfolio vs. NBI, excluding private securities.



Note: Chart shows equal-weighted performance of NBI stocks in their respective market cap buckets, using market cap classifications as of 31 March 2023. Updated as of 31 March 2024, performance calculated in USD.

Market Cap Performance Divergence in Biotech

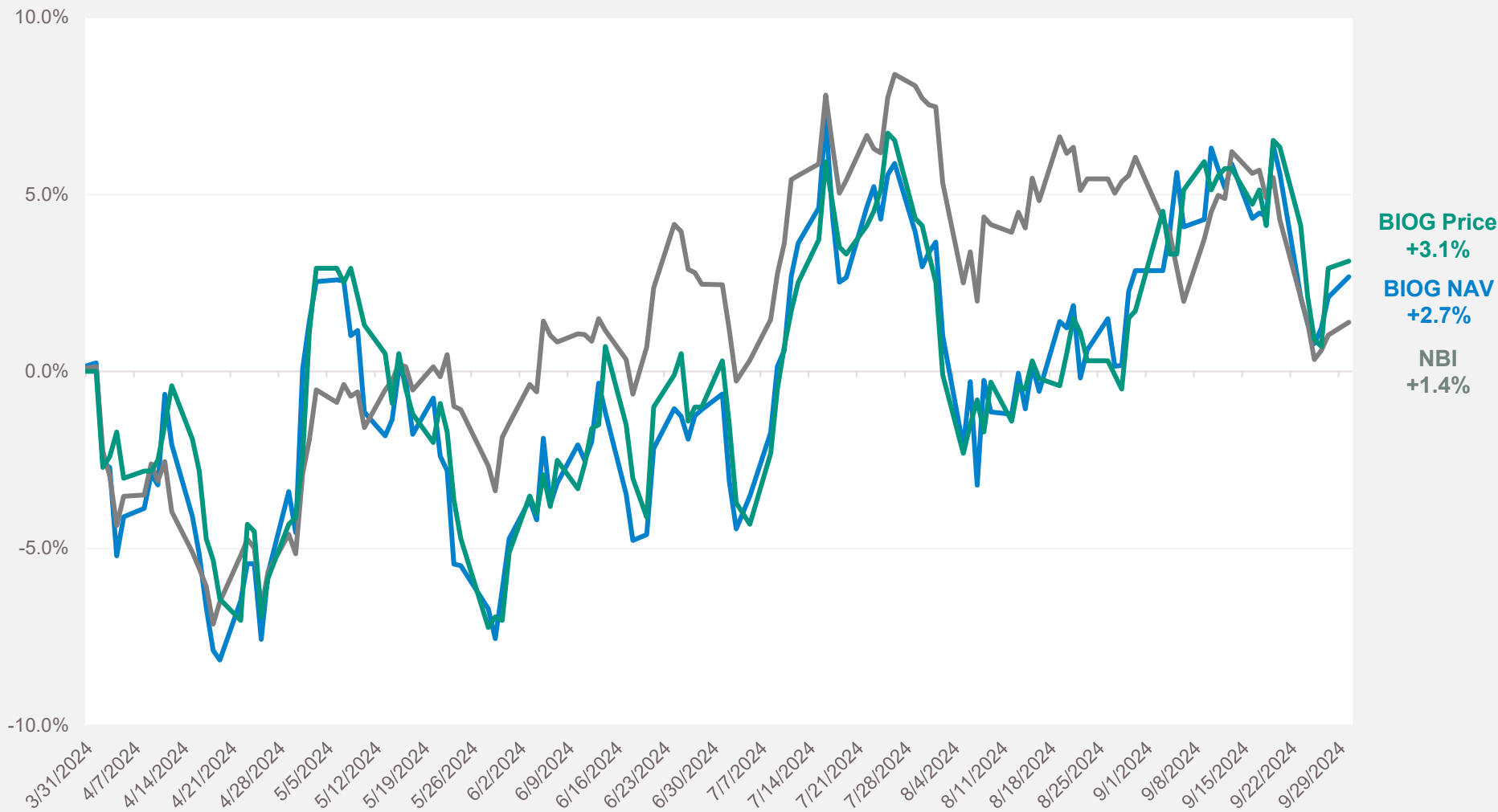
Performance Gap Since 2021 Has Yet to Close



Note: Chart shows equal-weighted performance of NBI stocks in their respective market cap buckets, using market cap classifications as of 31 March 2021. Updated as of 30 September 2024, performance calculated in USD.

BIOG Performance for Fiscal YTD

31 March 2024 to 30 September 2024



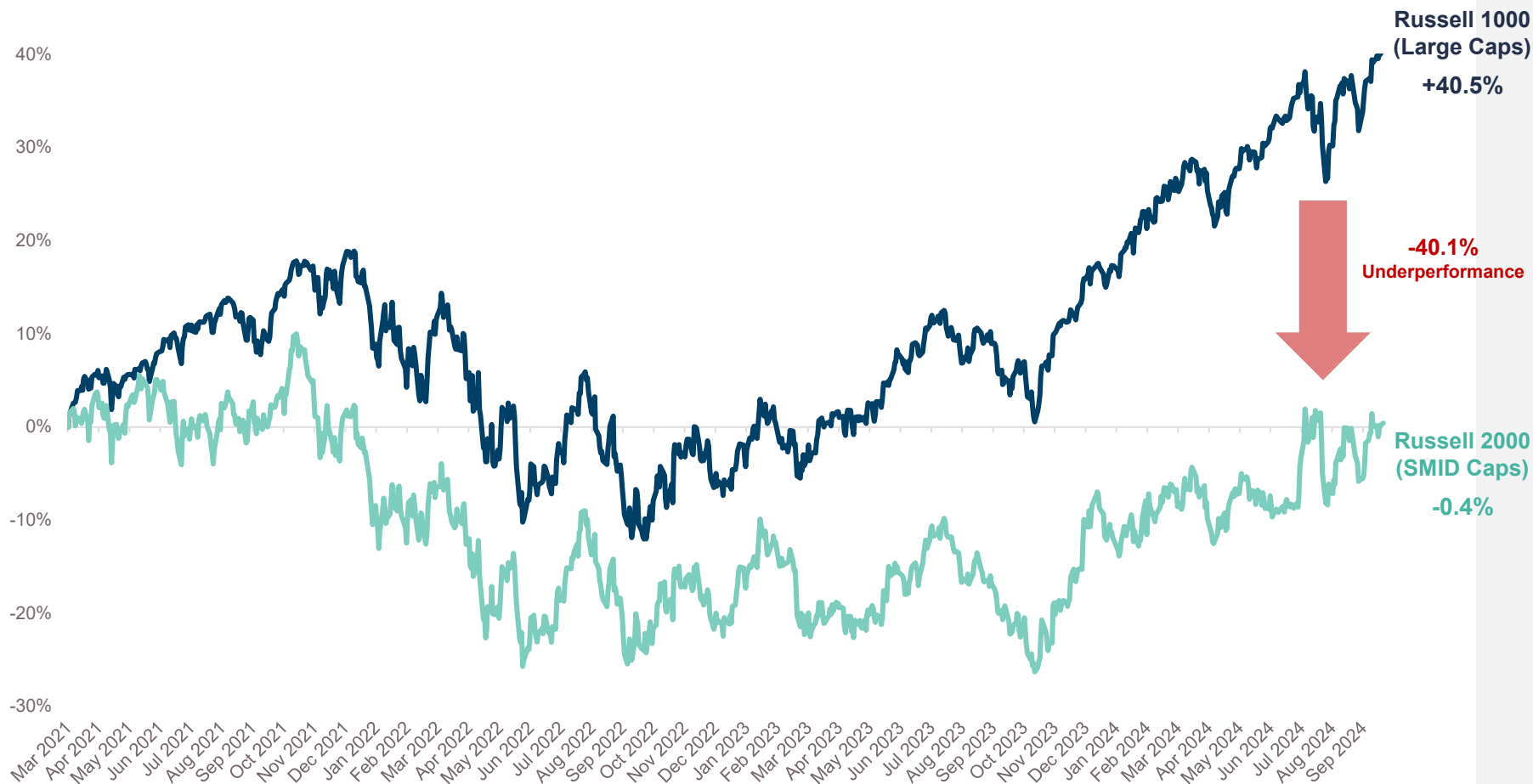
Source: Frostrow, Bloomberg.

Note: See Endnotes for additional information, including with regard to the calculation of these results and the index shown above.

Size Divergence in the Broad Market

(31 March 2021 – 30 September 2024)

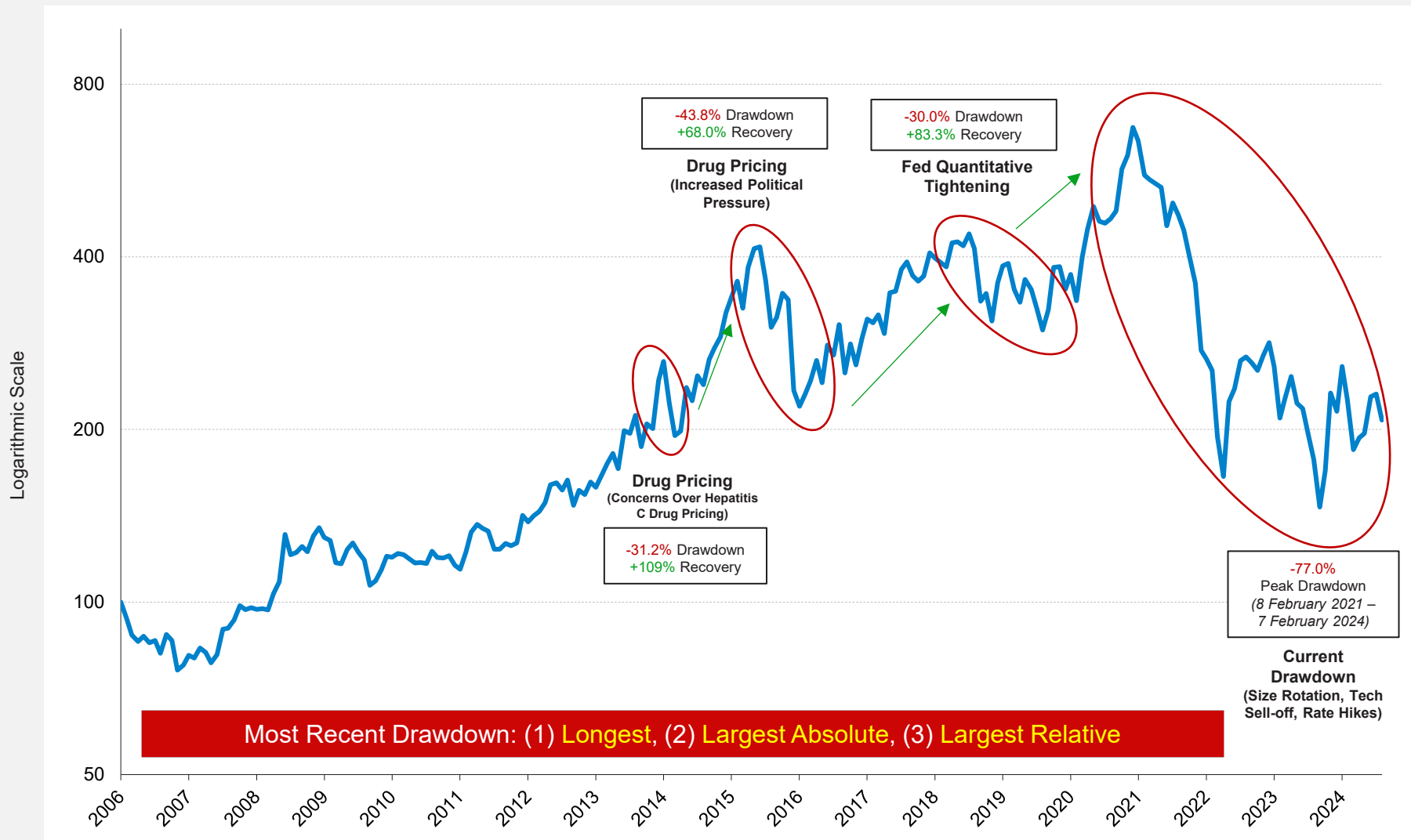
Russell 2000 (Small/Mid Cap) vs Russell 1000 (Large Cap)



Note: The Russell 2000 Index is comprised of the smallest 2000 companies in the Russell 3000 Index. The Russell 1000 Index is comprised of the largest 1000 companies in the Russell 3000 Index.

XBI vs. S&P 500 (SPX) Spread since XBI Inception

Drawdowns in spread followed by historically strong recoveries

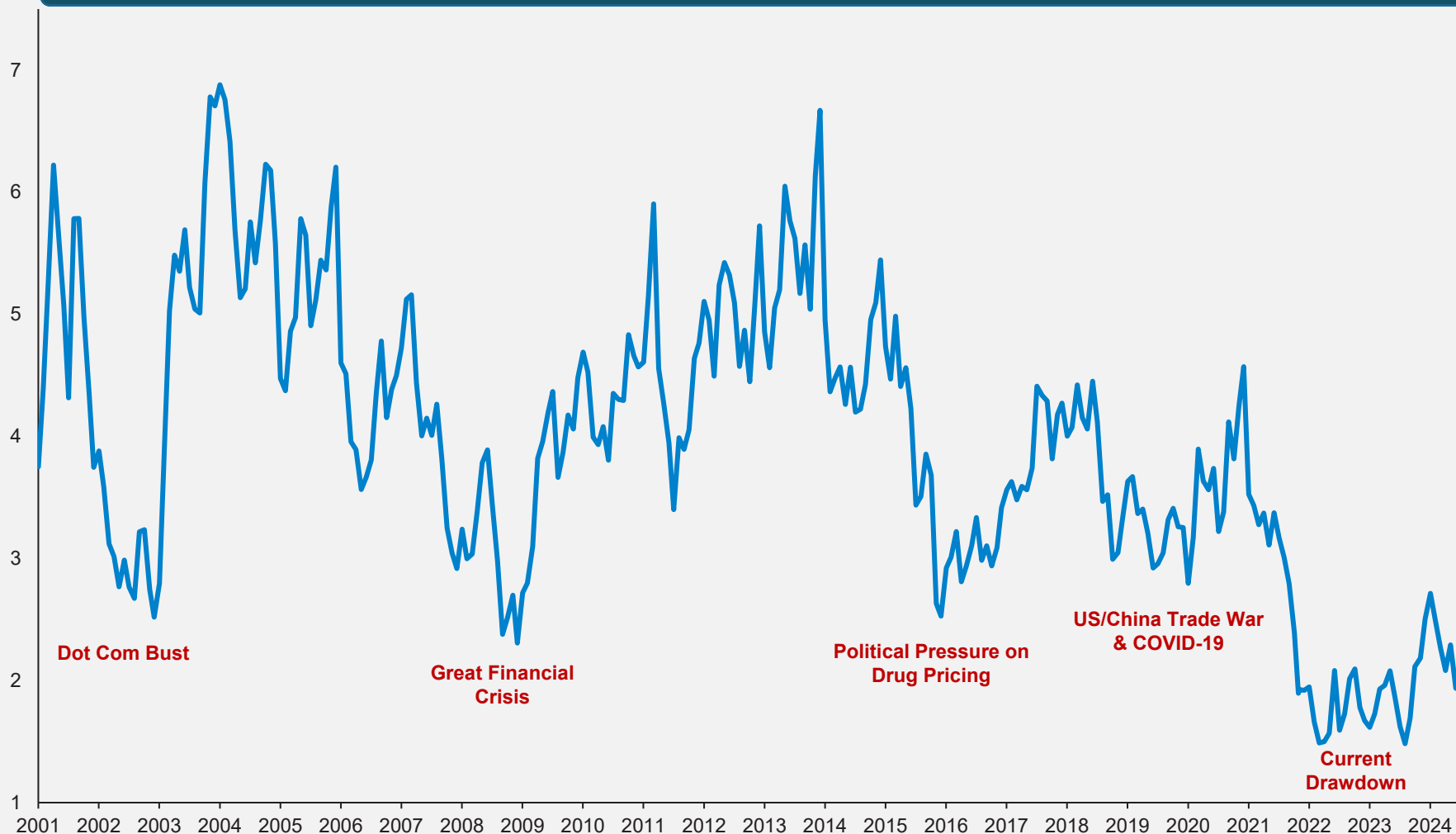


Note: Drawdowns are calculated using daily closing prices, while chart is shown using monthly periodicity for smoothing purposes. Updated as of 30 September 2024.

Source: JPM [Drawdowns and Recoveries] | OrbiMed (XBI - SPX Spread Chart since XBI Inception).

Biotech Valuations At Unprecedented Lows

Ratio of Market Cap to Net Cash on Balance Sheet (Median)

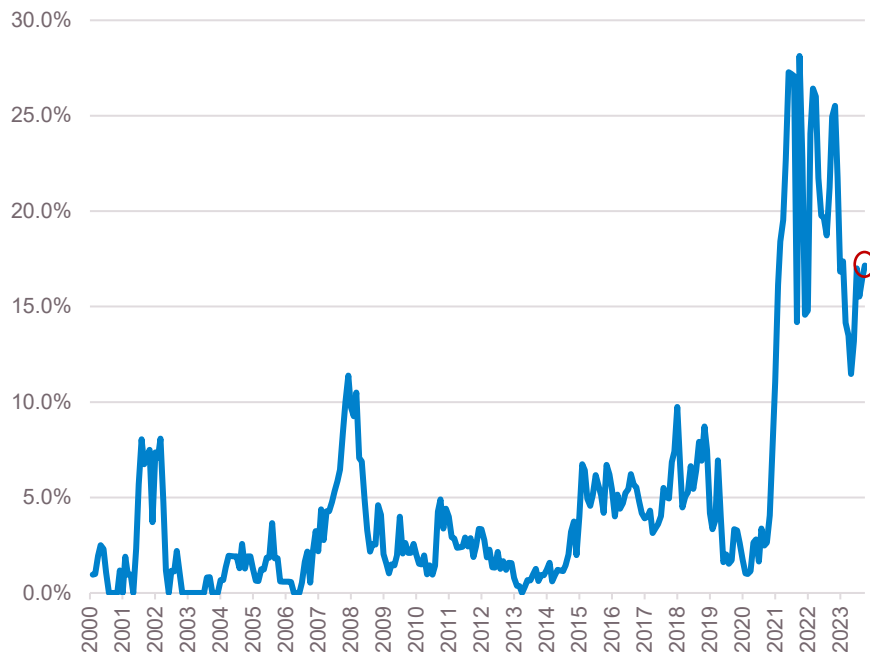


Note: Monthly chart of all GICS defined biotechnology greater than \$10mm, using historical cash and debt sourced from Bloomberg, with annual GICS biotechnology universe refreshes. Updated through 30 September 2024.

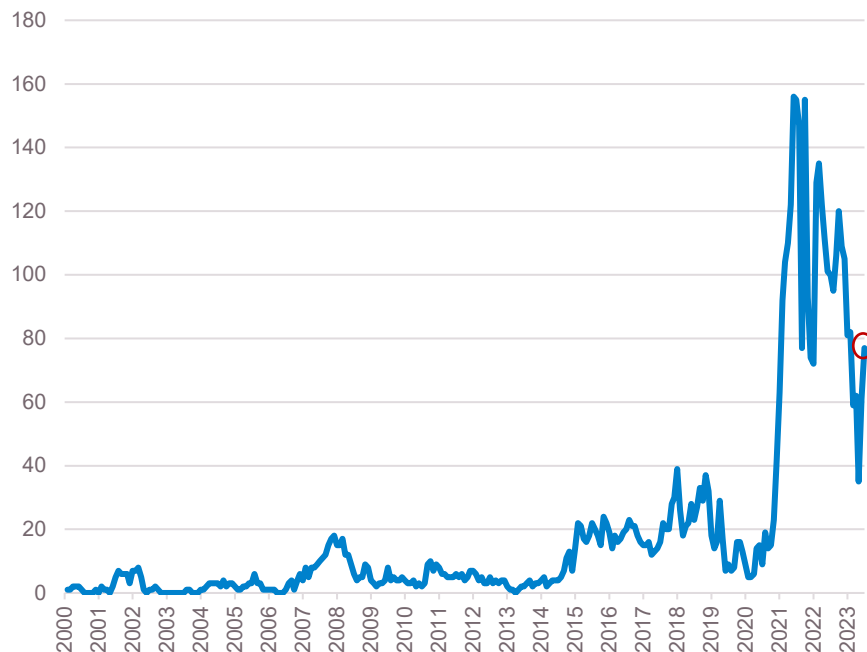
Biotech Valuations At Unprecedented Lows

Valuations have begun recovering from historical lows

Percent of Biotech Companies Trading Below Net Cash on Balance Sheet:



Number of Biotech Companies Trading Below Net Cash on Balance Sheet:



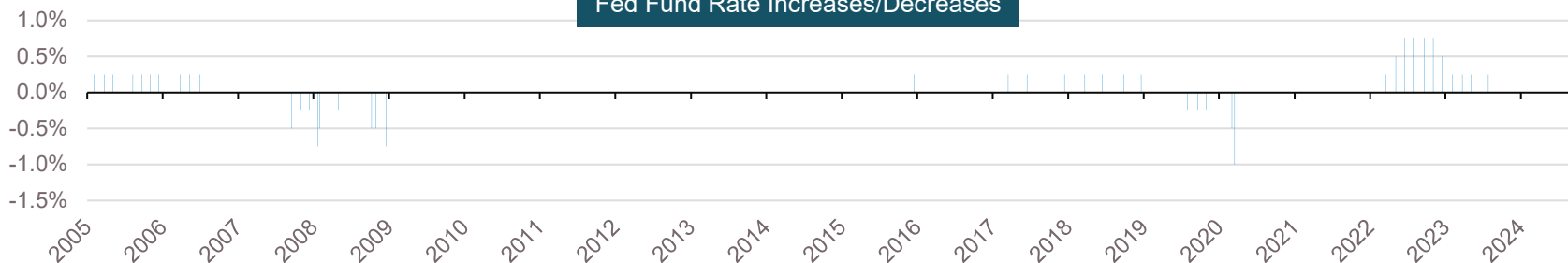
Note: Monthly chart of all GICS defined biotechnology greater than \$10mm, using historical cash and debt sourced from Bloomberg, with monthly GICS biotechnology universe refreshes. Updated through 30 September 2024

10-Year U.S. Government Yield Poised to Decline

(USGG10YR Index) Data as of 30 September 2024



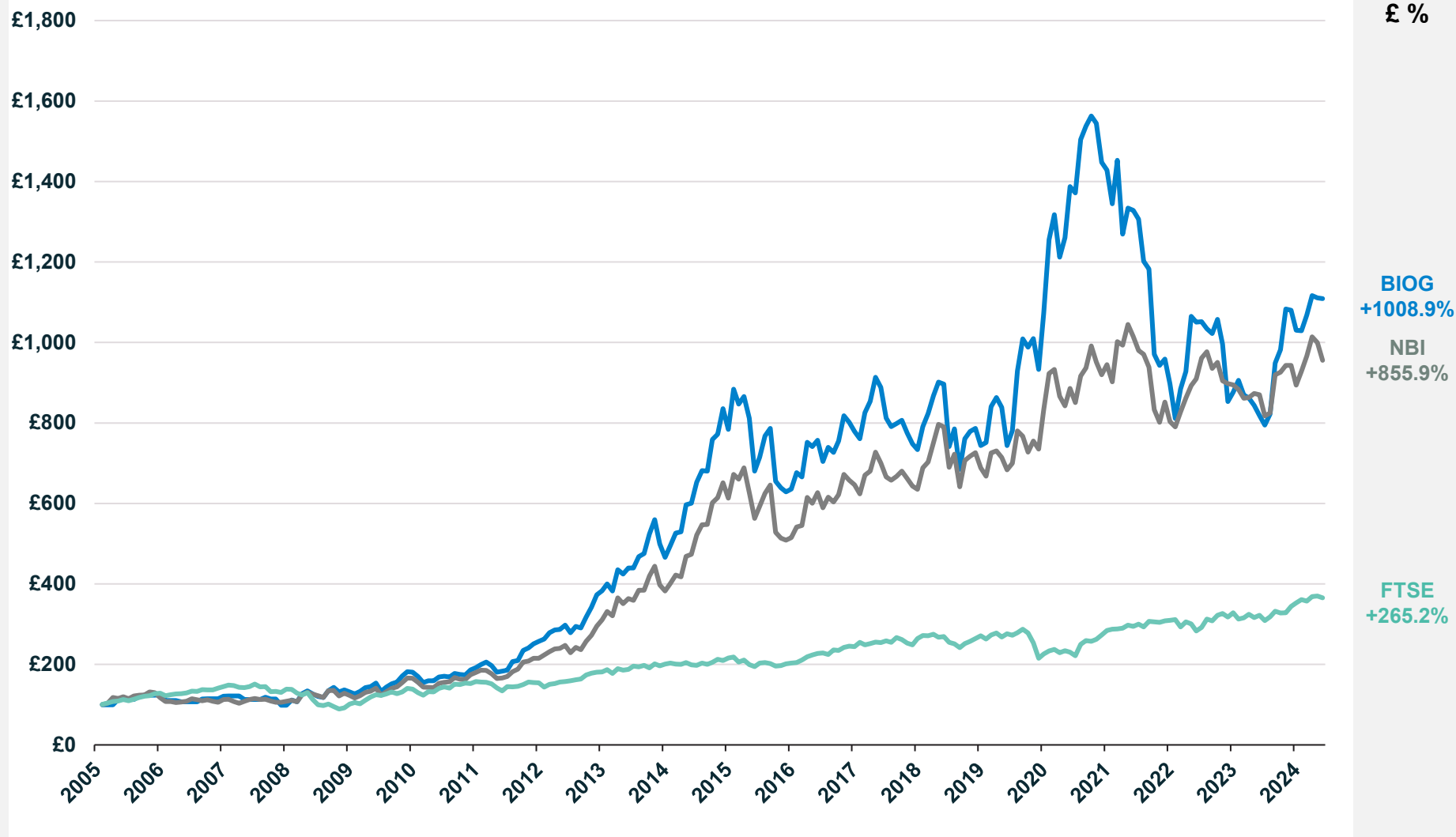
Fed Fund Rate Increases/Decreases



Source: Bloomberg

BIOG Performance since Inception

18 May 2005 through 30 September 2024



Note: See Endnotes for additional information, including with regard to the calculation of these results and the index shown above.

Source: Frostrow, Bloomberg.



BIOG

Investment Themes

Key Breakthroughs in Biotech in the last 18 Months

Company	Indication	Product (MOA)	Highlights
 agios	Non-transfusion and Transfusion Dependent Adult Thalassemia	Mitapivat (PK activator)	Reported positive Phase 3 data in two trials; first oral treatment for thalassemia
 Alnylam [®] PHARMACEUTICALS	ATTR Amyloidosis with Cardiomyopathy (ATTR-CM)	Vutrisiran (siRNA)	Reported first positive ATTR-CM outcomes study with a silencer of ATTR
 insmed [®]	Bronchiectasis	Brensocatib (DPP1 inhibitor)	Positive Phase 3 data with 20% reduction in exacerbations over 52 weeks. First ever successful bronchiectasis study.
 Dyne [™] THERAPEUTICS	Myotonic Dystrophy Type 1 (DM1)	DYNE-101 (antisense oligonucleotide conjugated to a fragment antibody)	Showed best in class knockdown of DMPK resulting in splicing correction and improved function relative to placebo in a Phase 1/2 trial
 AVIDITY [®] BIOSCIENCES	Facioscapulohumeral Muscular Dystrophy (FSHD)	Del-brax (siRNA bound to a monoclonal antibody)	First drug to ever demonstrate DUX4 knockdown and muscle function improvement in a Phase 1/2 trial
 kyverna [™]	Autoimmune Diseases	Auto CAR-T (CD19 targeting)	Demonstrated disease modifying activity of a one-time cellular therapy in refractory autoimmune disease
 CRISPR [®] THERAPEUTICS	Sickle Cell Disease and Beta Thalassemia	Casgevy (CRISPR Cas9 gene-editing therapy)	First ever CRISPR therapy approved in the world
 VERTEX [™]			
 Crinetics [®] Pharmaceuticals	Acromegaly	Paltusotine (somatostatin receptor type 2 agonist)	Positive Phase 3 trials for first once-daily oral medication for the treatment of acromegaly

Note: Public companies shown here are not necessarily representative of portfolio holdings

Significant FDA Biotech Approvals in 2024

Company	Indication	Product (MOA)	Highlights
	Metastatic Melanoma	Amtagvi	First cellular therapy approved for the treatment of a solid tumor
	Chronic Obstructive Pulmonary Disease (COPD)	Ohtuvayre	First novel mechanism approved to treat COPD in over a decade
	Low to Intermediate Risk Myelodysplastic Syndromes	Rytelo	First and only oligonucleotide telomerase inhibitor
	Small Cell Lung Cancer	Imdelltra	First bispecific T-cell engager approved to treat a solid tumor
	Pediatric Low-Grade Glioma	Ojemda	First therapy in its class approved for a type of pediatric brain tumor
	Paroxysmal Nocturnal Hemoglobinuria (PNH)	Voydeya	First oral add on therapy for the treatment of PNH
 	Pulmonary Arterial Hypertension (PAH)	Winrevair	First new mechanism for the treatment of PAH in over a decade
	Non-Alcoholic Steatohepatitis (NASH)	Rezdiffra	First drug approved for the treatment of fatty liver disease
 	Metachromatic Leukodystrophy (MLD)	Lenmeldy	First gene therapy for the treatment of MLD

Note: companies are not necessarily representative of portfolio holdings.

Oncology

Cancer remains #1 therapeutic area for biotech drug development given unmet need

Cellular Therapies

CD19



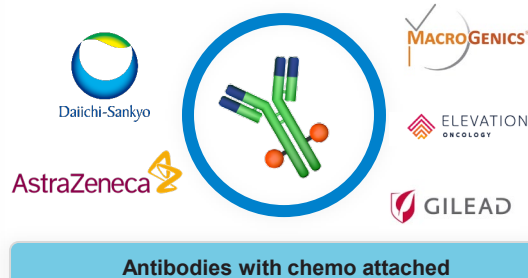
BCMA



Other



Antibody-Drug Conjugates



Antibodies with chemo attached

Bispecific Antibodies

Antibodies that bind to 2 different targets

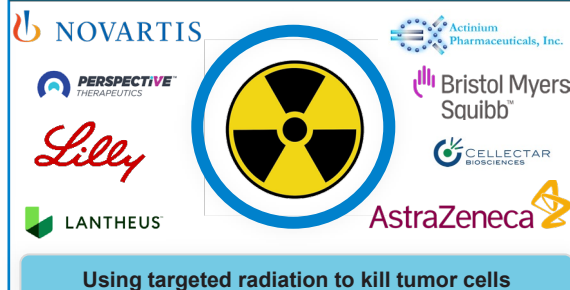


Targeted Therapies

Targeting specific genetic mutations



Radiopharmaceuticals



Using targeted radiation to kill tumor cells

Cancer Vaccines

Harnessing the immune system to attack cancer



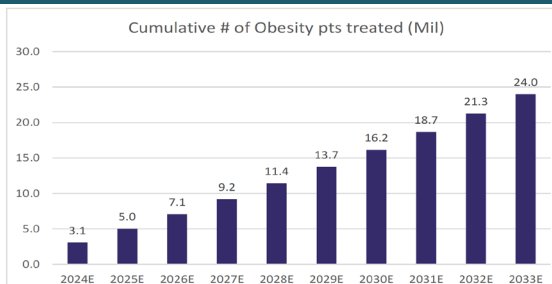
Note: companies are not necessarily representative of portfolio holdings.

Multiple innovative approaches generating clinical benefit across tumor types, giving physicians more treatment options to extend the lives of cancer patients.

Obesity

Biotech companies racing to develop next wave of therapies in potential \$200+ bn market

Substantial Growing Market



Source: Wells Fargo Securities, LLC Estimates

Current Leaders

Lilly

once weekly
zepbound™ mounjaro™

novo nordisk®

ONCE-WEEKLY
wegovy® OZEMPIC®

Weight Loss at 1 Year

Current Therapies

12-18% weight loss



Next Generation Therapies

25%+ weight loss

Additional Indications

Lilly

TIRZEPATIDE
MMO

TIRZEPATIDE
CV Outcomes

TIRZEPATIDE
Obstructive Sleep Apnea

TIRZEPATIDE
Heart Failure pEF

novo nordisk®

Diabetes

CKD

CVD

PAD

Obesity

Brain disorders

NASH

Heart Failure

Room for Improvement

- New **routes of administration** (e.g. oral)
- Novel **mechanisms of action**
- **Combination strategies** with GLP-1 agents to address shortcomings, such as loss of lean muscle mass and tolerability

Potential Solutions

ScholarRock

altimmune

BIOAGE

STRUCTURE
THERAPEUTICS

AMGEN

biohaven
pharmaceuticals

VIKING
THERAPEUTICS

Lexicon®
pharmaceuticals

REGENERON

ZEAL&
ZEALAND PHARMA

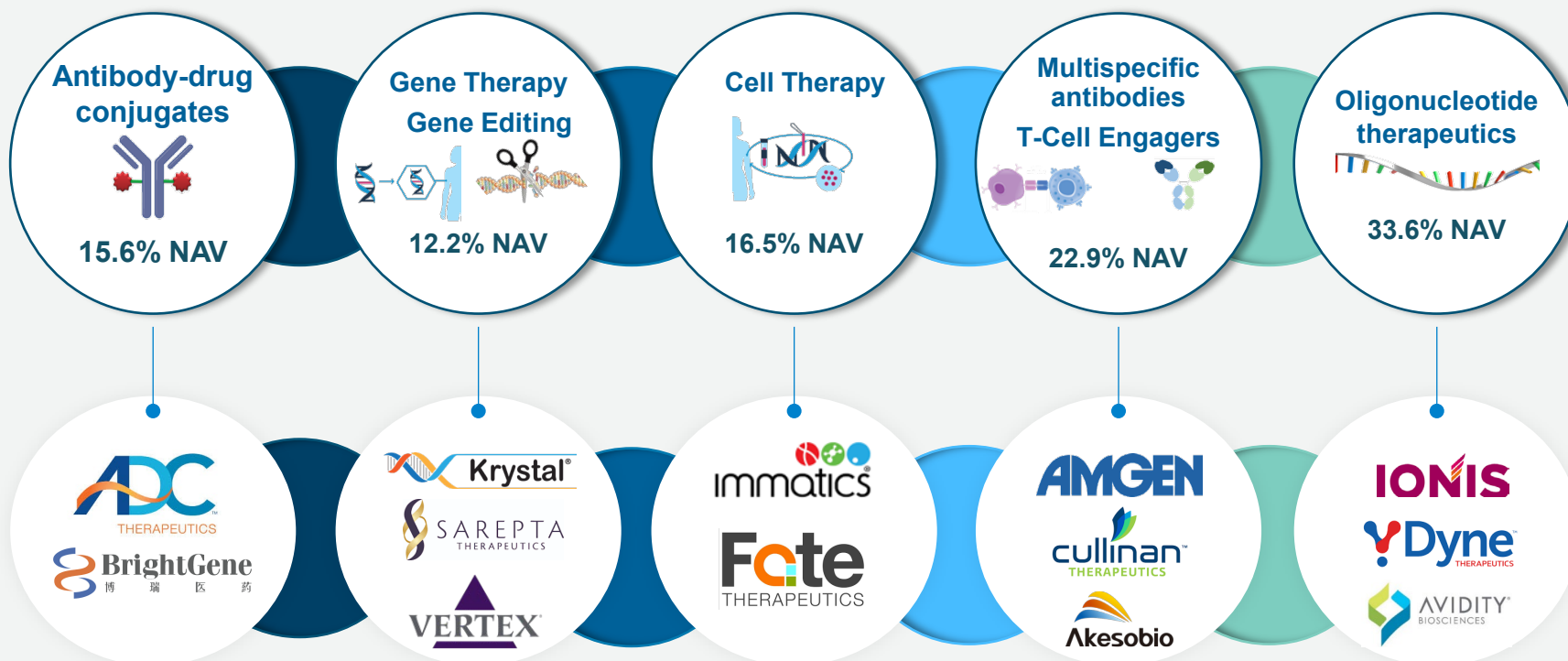
Innovent

Note: companies are not necessarily representative of portfolio holdings.

Lilly and Novo have a compelling head start, but the market is large enough to support multiple players.

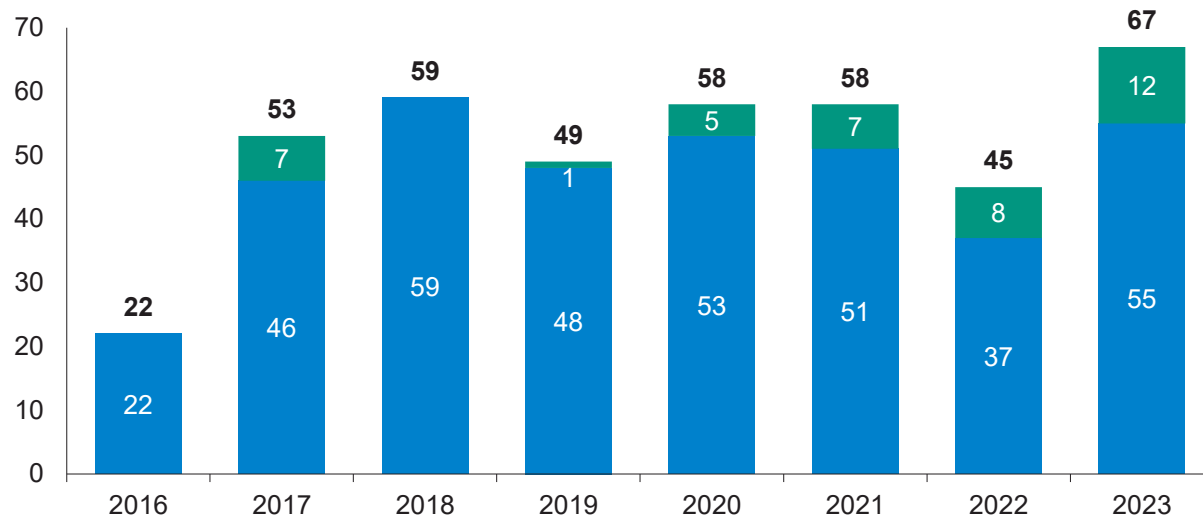
Innovation Well Reflected in BIOG

Portfolio has exposure to a wide swath of novel technologies, as shown below:



Source: OrbiMed, % of BIOG NAV as of 30 September 2024. Some positions are double-counted because they use more than one technology.

FDA New Molecular Entity Approvals



Source: FDA CDER and CBER as of 12/31/23

CDER CBER

Dip in approvals in 2022 likely due to COVID; approval volume remains high

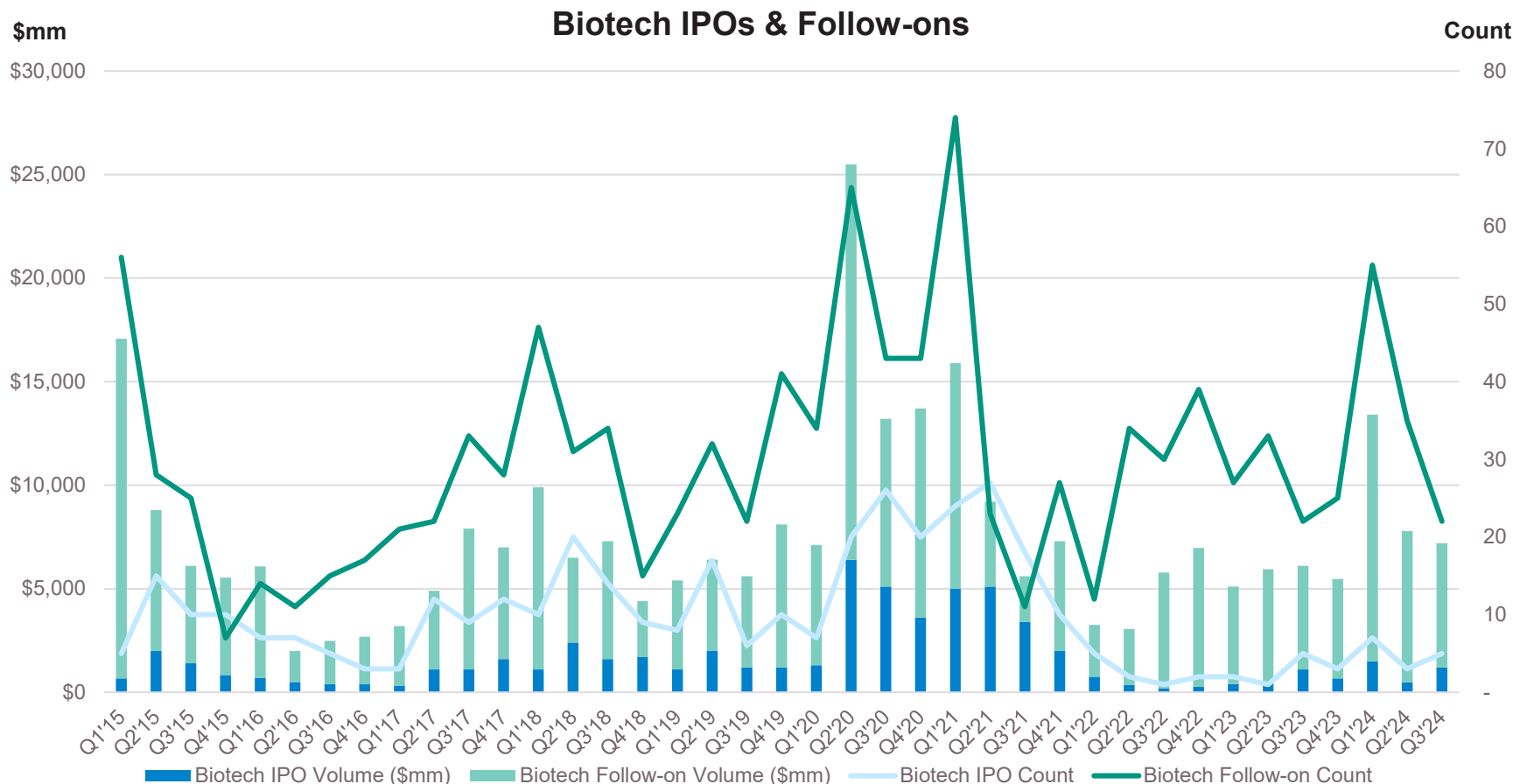


2023 was a record year for FDA approvals



Nearly **400** new drugs approved over the past 7 years

Financing Environment Improving



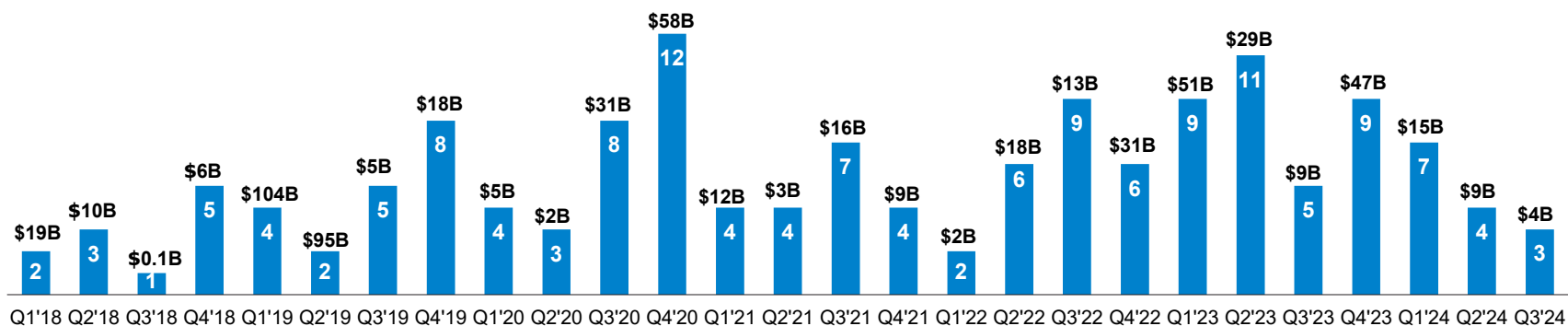
- Biotech financing volume has picked up in 2024, though the number of IPOs has remained muted
- Investor demand for follow-on financings in good companies has been strong; weaker companies still face challenges getting financed
- BIOG has been participating selectively in IPOs and confidentially marketed follow-on offerings

Source: BofA "Biotech ECM Activity" report as of 30 September 2024

M&A Activity in Biotechnology

Announced Public Biotech M&A Transactions

Public biotech M&A



Source: Factset

Large Cap Pharma Supportive of Continued M&A



CEO Rob Davis

"You're going to continue to see (deals), I think both some of the smaller deals but then up to that \$15 billion range"



CEO Thomas Schinecker

"We are constantly looking at opportunities, both for partnering and acquisitions and yes, we are open to do more deals"



CEO Rick Gonzalez

"(Our) industry leadership position...affords us the ability then to really invest for growth in the next decade, which is ultimately how we're thinking about business development"



CEO Joaquin Duato

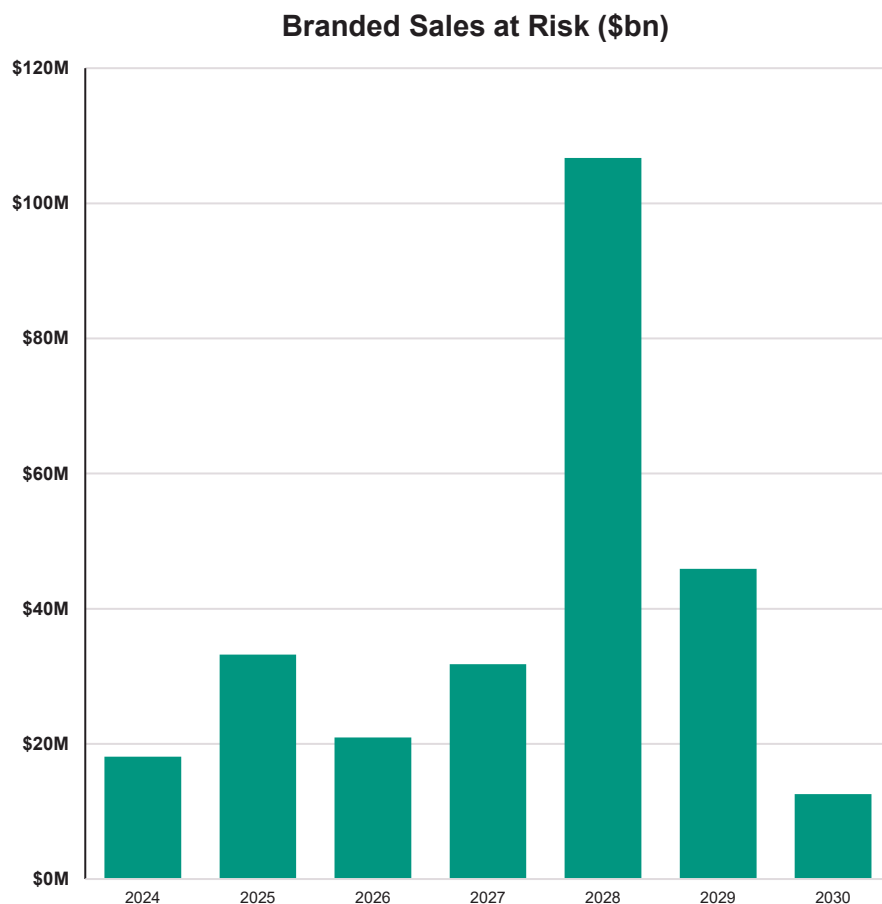
"Our capital allocation strategy will continue to be disciplined and M&A is going to remain a critical component of that, that's our M&A strategy and it's been a cornerstone of our ability to create value"

Recent M&A in BIOG



Big Pharma Patent Cliff Drives Biotech M&A

Nearly **\$270 billion** in branded sales are at risk (2024-2030)



Note: Data from Wolfe Research, OrbiMed, Visible Alpha
(sales at risk represents consensus projected sales for year prior to year of expected loss of exclusivity)

Company	Drug	US Loss of Exclusivity (Projected)	'23 Global Sales (\$bn)
MERCK	KEYTRUDA (pembrolizumab) injection 100mg	2028	\$25.0
abbvie	HUMIRA adalimumab	2023	\$14.4
Bristol Myers Squibb Pfizer	Eliquis (apixaban) tablets 5mg, 2.5mg	2026	\$12.2
Johnson & Johnson	Stelara (ustekinumab)	2025	\$10.9
Johnson & Johnson	DARZALEX	2029	\$9.7
Bristol Myers Squibb	OPDIVO (nivolumab)	2028	\$9.0
abbvie Johnson & Johnson	imbruvica	2027	\$4.9
Pfizer	IBRANCE palbociclib	2027	\$4.8

Source: S&P Global report, Company Reports

2024 U.S. Presidential Election



A volatile summer in election year politics; election risk for biotech appears low

- The Presidential debate on 27 June 2024 revealed Biden's weaknesses as a candidate
- Two weeks later a Trump assassination attempt on 13 July 2024 led to continued momentum for Trump
- Then history was made when Biden stepped down, passing the re-election torch to Harris on 21 July 2024
- Harris has improved chances for the Democrats, but Presidential race remains a very close call



June 27, 2024



July 13, 2024



July 21, 2024



Harris Steps In
July 22, 2024

Democrat Sweep?



- 2010: ACA passed
- 2022: IRA passed
- 2024: Nothing to do?

orbimed
Probabilities*

5% **NEGATIVE**

Republican Sweep?



GOP historically "industry friendly" ...may even try to revoke the most egregious parts of the IRA (drug price negotiations)

35% **POSITIVE**

Divided Government



Federal government remains in gridlock --- nothing gets passed

60% **POSITIVE**

Despite recent events in the Presidential race – split Congress expected

*OrbiMed in-house generated estimates

2024 Strategy and Outlook



Strategy to emphasize emerging biotech over large cap biotech will continue in order to fully capture sector rebound

- Will capitalize on compelling investment opportunities in companies that need to finance at low share prices
- Gearing level will generally stay between 5-10%



Unprecedented low valuations in emerging biotech suggest significant upside from current levels

- Performance drawdown of small/mid cap biotech versus the S&P 500 has been the longest and most severe we have ever seen
- Percent of biotech companies with market caps below the net cash on their balance sheets well above historical norms
- Valuation levels are lower than the Great Financial Crisis and the bursting of the Dot Com bubble
- Interest rates now declining rather than increasing; biotech has historically outperformed during recessions



Valuation contraction is disconnected from the fundamental innovation in the sector, which remains robust



M&A activity expected to accelerate given lower valuations of biotech targets and urgent need for new products by Big Pharma



Political risk seems low given current election year outlook

OrbiMed believes this is an excellent time to invest in biotech innovation at unprecedented low valuations.



BIOG

Appendix

BIOG Holdings

As of 30 September 2024

<u>UNITED STATES</u>	Market Price \$ Millions	Pct. Value	<u>UNITED STATES</u>	Market Price \$ Millions	Pct. Value	<u>INTERNATIONAL</u>	Market Price \$ Millions	Pct. Value
Emerging Biotechnology			Emerging Biotechnology (cont.)			Europe		
ACADIA Pharmaceuticals Inc	11.8	2.5	Phathom Pharmaceuticals Inc	14.1	3.0	Emerging Biotechnology		
Alnylam Pharmaceuticals Inc	15.9	3.3	Prelude Therapeutics Inc	0.7	0.2	ADC Therapeutics SA	5.0	1.0
Amicus Therapeutics Inc	6.1	1.3	Repare Therapeutics Inc	0.2	0.0	Argenx SE	23.0	4.8
Apellis Pharmaceuticals Inc	3.7	0.8	Rhythm Pharmaceuticals Inc	8.6	1.8	Immatics NV	8.2	1.7
Avidity Biosciences Inc	14.0	2.9	Sarepta Therapeutics Inc	21.9	4.6		36.1	7.6
Bicara Therapeutics Inc	1.0	0.2	Scholar Rock Holding Corp	1.6	0.3	Major Biotechnology		
BioAge Labs Inc	5.1	1.1	Structure Therapeutics Inc	4.7	1.0	BioNTech SE	6.2	1.3
C4 Therapeutics Inc	7.3	1.5	Syndax Pharmaceuticals Inc	12.3	2.6		6.2	1.3
CG oncology Inc	13.0	2.7	Tyra Biosciences Inc	9.0	1.9	Europe Subtotal	42.3	8.9
Compass Therapeutics Inc	6.6	1.4	Vaxcyte Inc	7.8	1.6	Far East		
Corbus Pharmaceuticals Holdin	5.5	1.2	Vera Therapeutics Inc	10.2	2.1	Emerging Biotechnology		
Cullinan Therapeutics Inc	4.4	0.9	Vir Biotechnology Inc	11.8	2.5	Akeso Inc	10.2	2.1
Dyne Therapeutics Inc	7.2	1.5	Xenon Pharmaceuticals Inc	11.1	2.3	BeiGene Ltd	10.6	2.2
Edgewise Therapeutics Inc	7.1	1.5		301.7	63.2	BrightGene Bio-Medical Techn	4.9	1.0
Enliven Therapeutics Inc	1.1	0.2	UNITED STATES			Gracell Biotechnologies Inc	0.5	0.1
Exact Sciences Corp	4.9	1.0	Major Biotechnology			HUTCHMED China Ltd	5.0	1.0
Fate Therapeutics Inc	2.4	0.5	Amgen Inc	41.2	8.6	Innovent Biologics Inc	9.7	2.0
Instil Bio Inc	2.3	0.5	Biogen Inc	9.5	2.0	LakeShore Biopharma Co Ltd	1.0	0.2
Ionis Pharmaceuticals Inc	15.0	3.1	Gilead Sciences Inc	12.7	2.7	Mabwell Shanghai Bioscience	5.0	1.0
Kezar Life Sciences Inc	1.5	0.3	Regeneron Pharmaceuticals Inc	7.8	1.6	New Horizon Health Ltd	0.9	0.2
Krystal Biotech Inc	4.3	0.9	Vertex Pharmaceuticals Inc	7.6	1.6	OrbiMed Asia Partners	1.3	0.3
Lexicon Pharmaceuticals Inc	6.7	1.4		78.8	16.5	QuantumPharm Inc	38.8	8.1
Longboard Pharmaceuticals Inc	5.7	1.2	United States Total	380.5	79.7	Stemirna*	0.3	0.1
Lyell Immunopharma Inc	4.0	0.8				Suzhou Basecare Medical Corp	0.6	0.1
Milestone Pharmaceuticals Inc	1.5	0.3					88.7	18.6
Mineralys Therapeutics Inc	10.2	2.1				Major Biotechnology		
Neumora Therapeutics Inc	6.0	1.3				Sino Biopharmaceutical Ltd	2.4	0.5
Neurocrine Biosciences Inc	5.4	1.1					2.4	0.5
Nkarta Inc	3.7	0.8				Far East Subtotal	91.1	19.1
PepGen Inc	4.3	0.9				International Total	133.4	28.0
						Cash	-36.7	-7.7
						Total Portfolio	477.3	100.0

Note: securities with asterisks (*) are unquoted

Unprofitable Tech Has Declined Meaningfully

Goldman Sachs Unprofitable Tech Basket



GS Unprofitable
Technology Basket
-56.5%

The GS Non-profitable tech basket (GSXUNPTC) consists of non-profitable US listed companies in innovative industries. Technology is defined broadly to include new economy companies across GICS industry groupings. Date range for chart is from 31 March 2021 to 30 September 2024

China Healthcare Near All-Time Lows

Innovation remains strong; recovery may be starting to occur

Hang Seng Healthcare Index (HSHCI)



Source: Bloomberg, OrbiMed Advisors

Note: Chart updated from 30 June 2021 through 30 September 2024.

Risk Management

- Diversification across multiple parameters
 - Size and stage of company (large cap, mid cap, small cap); revenue versus pre-revenue
 - Geographical diversification (U.S., Europe, China)
 - Therapeutic area
 - Drug development technologies
- Prudent position sizing
 - Sizing depends on conviction level, liquidity of the stock, and risk/reward of the idea
 - We aim not to lose more than 100 basis points of performance on a single catalyst
 - Typical position sizes: 5-10% for large cap biotech, 1-3% for emerging biotech
 - Position sizes are actively managed to navigate the catalyst paths of emerging biotech stocks, so turnover is relatively high (~90%)
 - The fund regularly trades around positions (trimming high, adding low) to ensure position sizes appropriately reflect risk/reward, especially in advance of binary events
 - Volatility of biotech increases markedly as one descends in market cap
 - Average annual volatility of stock constituents of NASDAQ Biotech Index:

As of 10 October 2024	1 Std. Deviation
Large Cap (>\$10bn)	50.3
Mid Cap (\$2bn-10bn)	65.1
Small Cap (<\$2bn)	80.3

- Fund's emphasis on emerging biotech with stock-moving catalysts means turnover will likely remain high to manage risk appropriately

Endnotes

General Notes

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Endnotes

Indices

Indices are shown for comparison only, are unmanaged, do not charge fees or expenses and do not employ special techniques such as leveraging or short selling.

The volatility of indices may be materially different from the performance of the fund. In addition, the fund's portfolio holdings may differ significantly from the securities that comprise such indices.

The NASDAQ Biotechnology Index (the "NBI") includes securities of NASDAQ-listed companies classified according to the Industry Classification Benchmark as either Biotechnology or Pharmaceuticals, which also meet other eligibility criteria, and is calculated under a modified capitalization-weighted methodology. The Russell 2000 Index is comprised of the smallest 2000 companies in the Russell 3000 Index. The Russell 1000 Index consists of the largest 1000 companies in the Russell 3000 Index. The SPDR S&P Biotech ETF is an exchange-traded fund that seeks to replicate the performance of the S&P Biotechnology Select Industry Index, an equal-weighted index. The SPX includes 500 leading companies and captures approximately 80% coverage of available market capitalization. The FTSE 100 Index is a capitalization-weighted index of the 100 most highly capitalized companies traded on the London Stock Exchange. The Hang Seng Healthcare Index ("HSHCI") aims to reflect the overall performance of stocks listed in Hong Kong that are related to healthcare businesses.

Where stated as "Net" or "TR" (or total return), the index return numbers include reinvestment of dividends net of withholding taxes, as calculated by the index provider.