



#### The Biotech Growth Trust

**Annual General Meeting** 

18 July 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

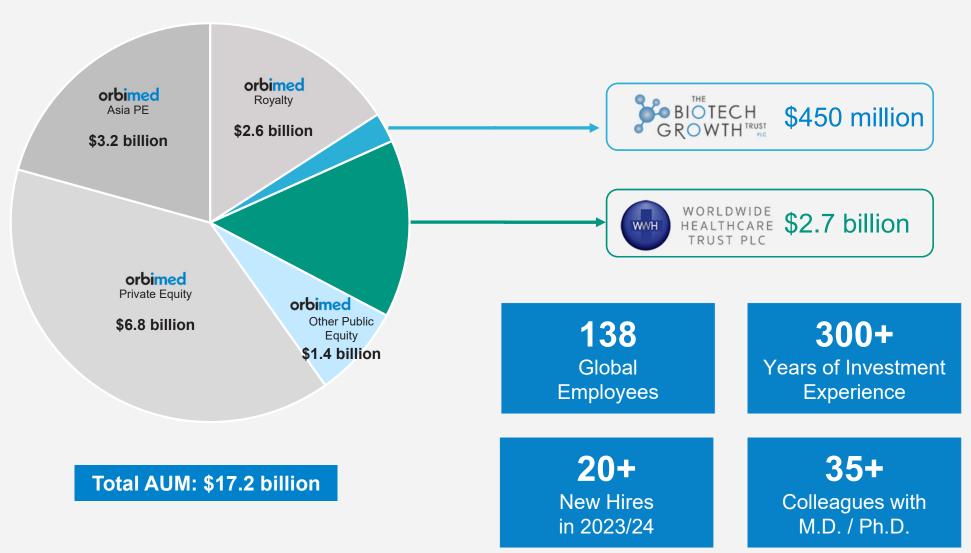


Josh Golomb is a Partner at OrbiMed focused on biotechnology. He joined the firm in 2021 and became a portfolio manager of The Biotech Growth Trust in 2023.

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

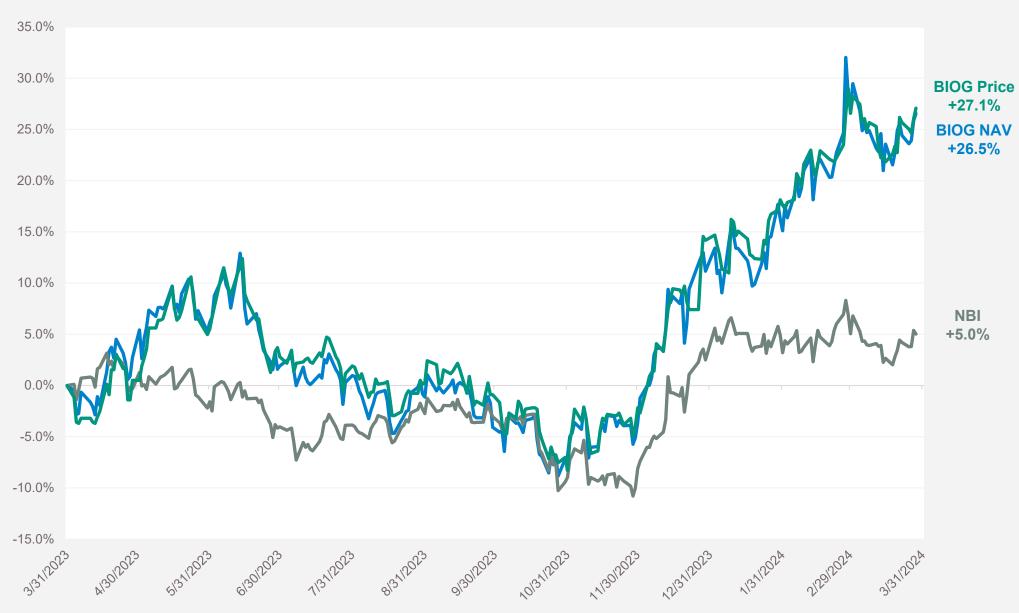


Source: OrbiMed; Data estimated as of 30 June 2024

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# Performance

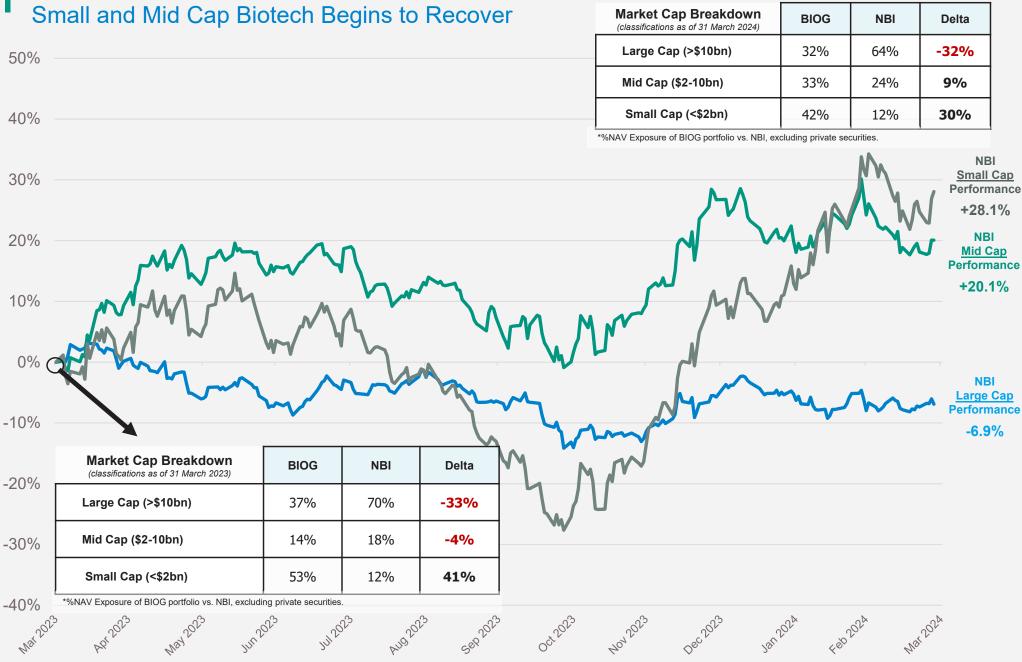
# BIOG Performance for Fiscal 2024 31 March 2023 to 31 March 2024



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



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 Market Cap Breakdown **BIOG** NBI Delta (classifications as of 30 June 2024) Large Cap (>\$10bn) 41% 66% -26% 30% Mid Cap (\$2-10bn) 34% 22% 12% 29% Small Cap (<\$2bn) 18% 11% 20% \*%NAV Exposure of BIOG portfolio vs. NBI, excluding private securities. 10% NBI -0.9% -10% -20% **NBI** Mid Cap **Performance** Market Cap Breakdown **BIOG NBI** Delta 29.3% -30% (classifications as of 31 March 2021) -33% Large Cap (>\$10bn) 26% 59% Small Cap Performance -40% 22% 29% -7% Mid Cap (\$2-10bn) -30.3% 38% Small Cap (<\$2bn) 51% 13% -50% \*%NAV Exposure of BIOG portfolio vs. NBI, excluding private securities. Fiscal 2024 -60%

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 June 2024, performance calculated in USD.

# BIOG Performance for Fiscal YTD 31 March 2024 to 30 June 2024



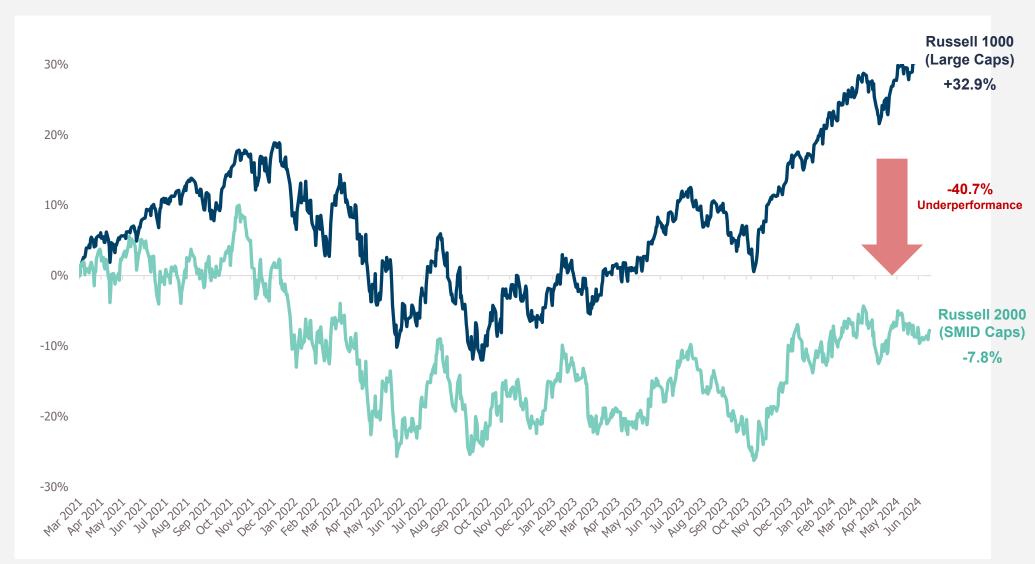
Source: Frostrow, Bloomberg.

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 June 2024)

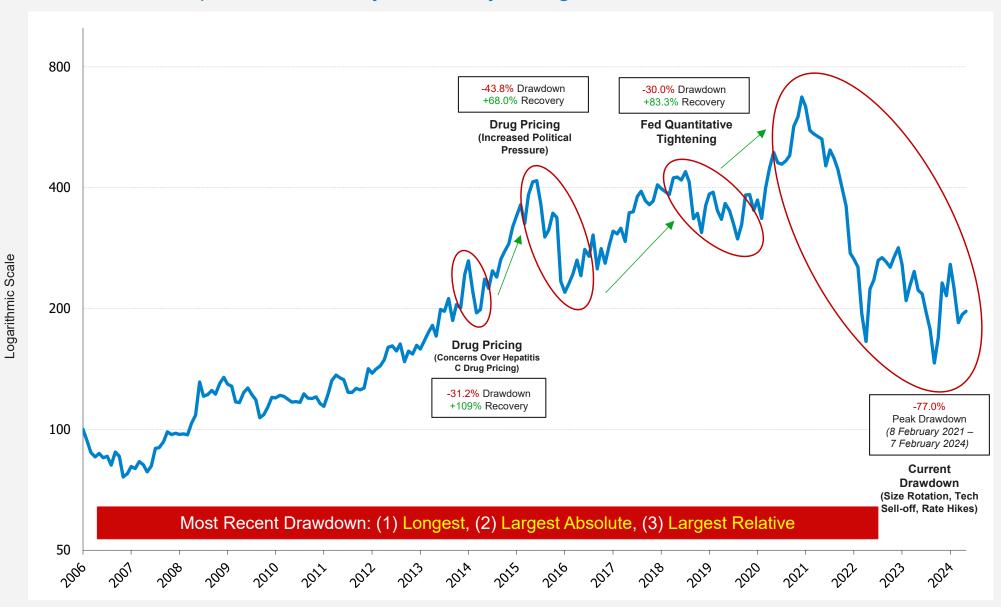
#### Russell 2000 (Small/Mid Cap) vs Russell 1000 (Large Cap)



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

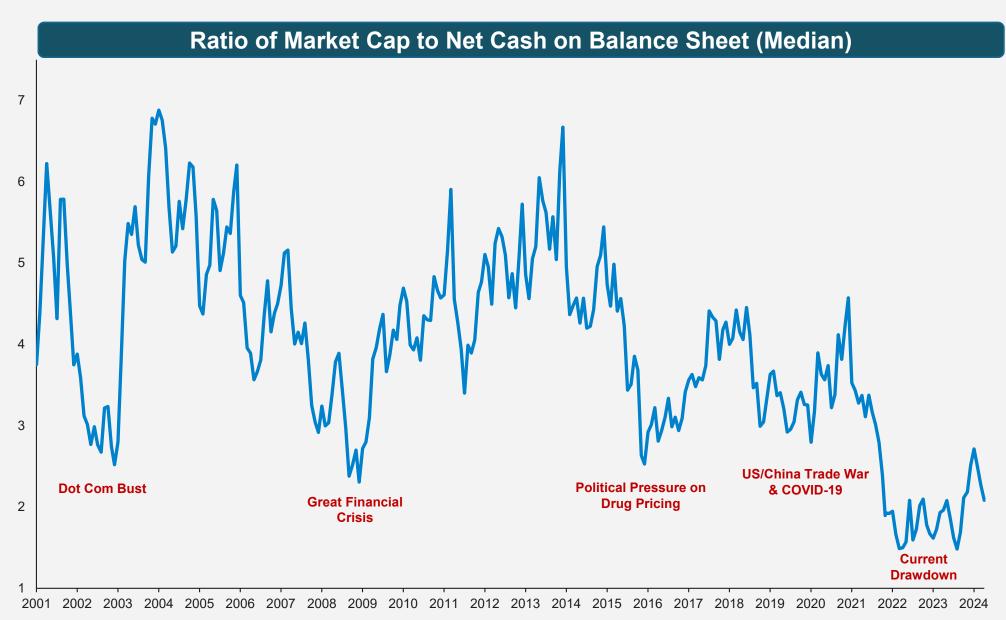
## XBI vs. S&P 500 (SPX) Spread since XBI Inception

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 June 2024. Source: JPM [Drawdowns and Recoveries] | OrbiMed (XBI - SPX Spread Chart since XBI Inception).

#### Biotech Valuations At Unprecedented Lows

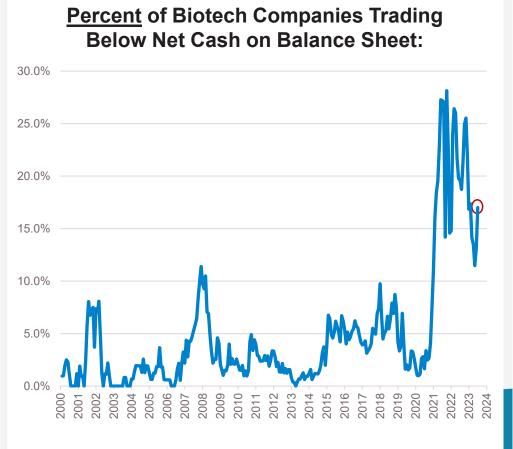


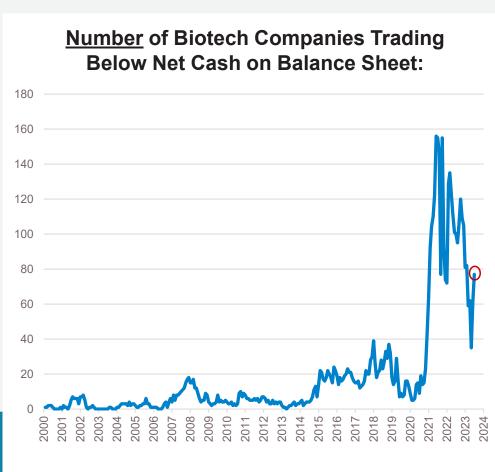
Note: Monthly chart of all GICs defined biotechnology greater than \$10mm, using historical cash and debt sourced from Bloomberg, with annual GICS biotechnology universe refreshes. Updated through 30 June 2024.



## Biotech Valuations At Unprecedented Lows

Valuations have begun recovering from historical lows

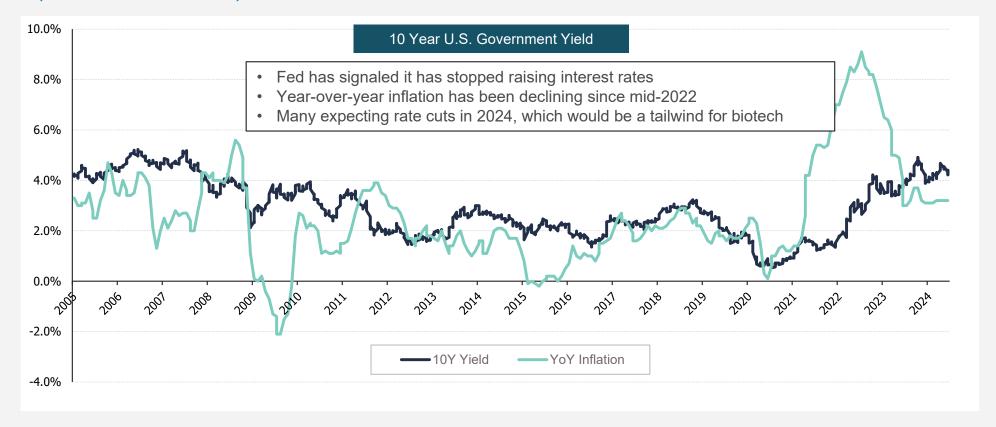


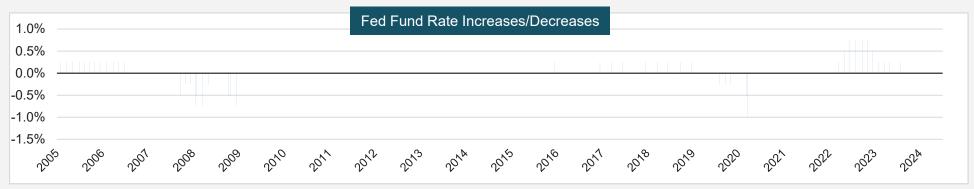


Note: Monthly chart of all CCs defined biotechnology greater than \$10mm, using historical cash and debt sourced from Bloomberg, with monthly GICS biotechnology universe refreshes. Updated through 30 June 2024

## 10-Year U.S. Government Yield Stabilizing

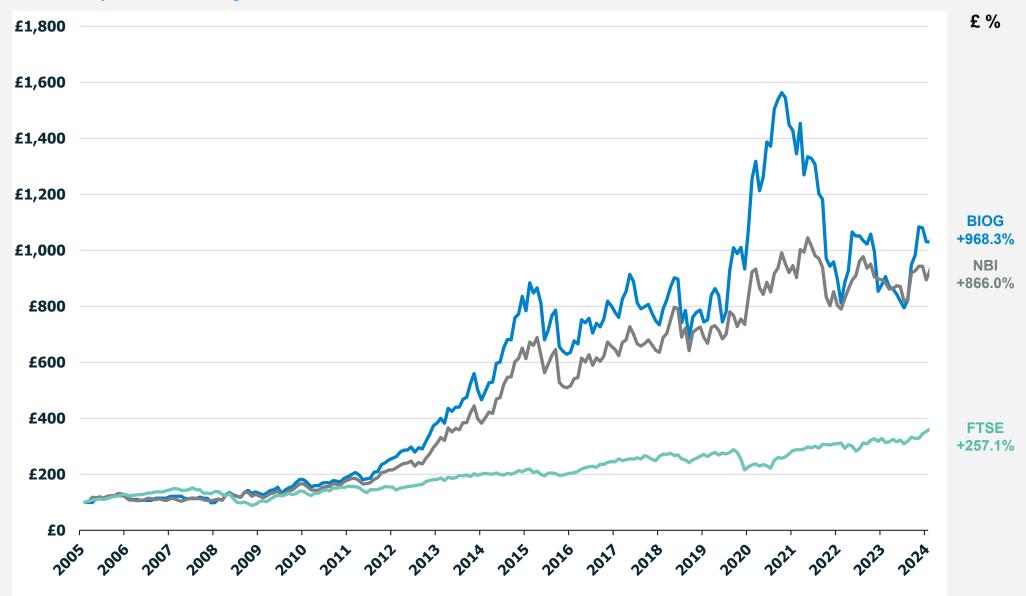
(USGG10YR Index) Data as of 30 June 2024





Source: Bloomberg

# BIOG Performance since Inception 18 May 2005 through 30 June 2024



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

Source: Frostrow, Bloomberg.

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## **Investment Themes**

## Key Breakthroughs in Biotech since Last AGM

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	
2 Alnylam®	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.	
<b>YDyne</b> 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	
Crinetics	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 1H24

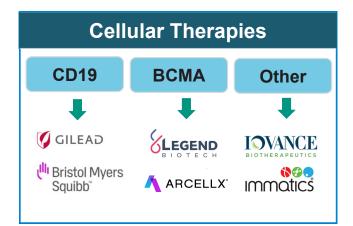
Company	Indication	Product (MOA)	Highlights		
INTERIOR DE LA CONTRACTION DEL CONTRACTION DE LA	Metastatic Melanoma	Amtagvi	First cellular therapy approved for the treatment of a solid tumor		
Verona Pharma®	Chronic Obstructive Pulmonary Disease (COPD)	Ohtuvayre	First novel mechanism approved to treat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

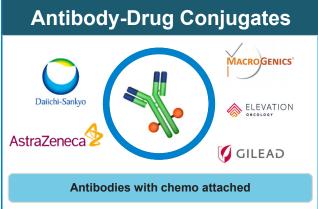
Note: companies are not necessarily representative of portfolio holdings.

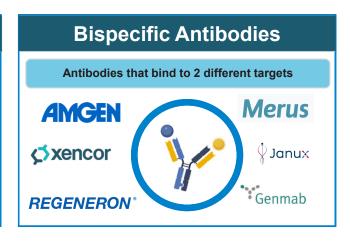


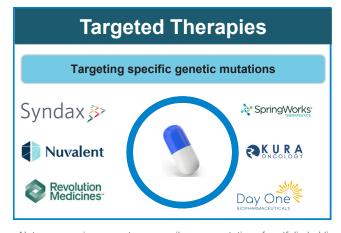
#### Oncology

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

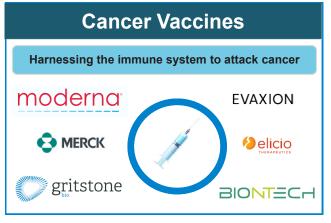












Note: companies are not necessarily representative of portfolio holdings.

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

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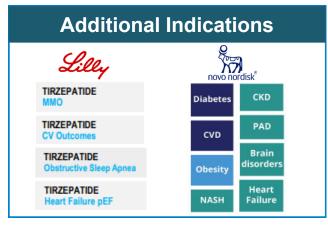
#### Obesity

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









#### **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

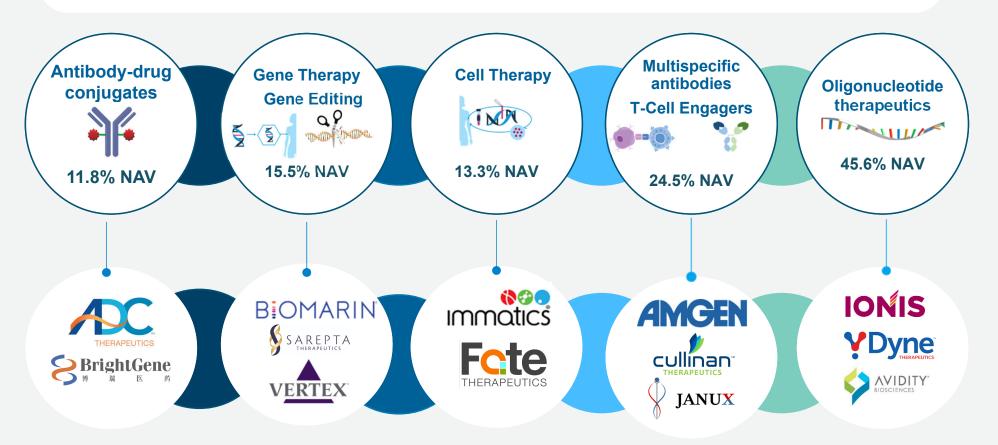


Note: companies are not necessarily representative of portfolio holdings.

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

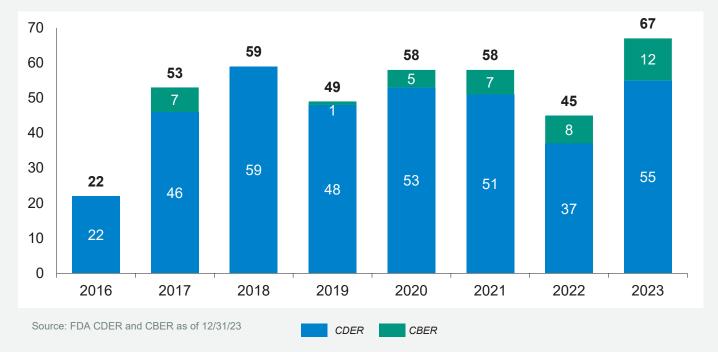
#### Innovation Well Reflected in BIOG

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



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

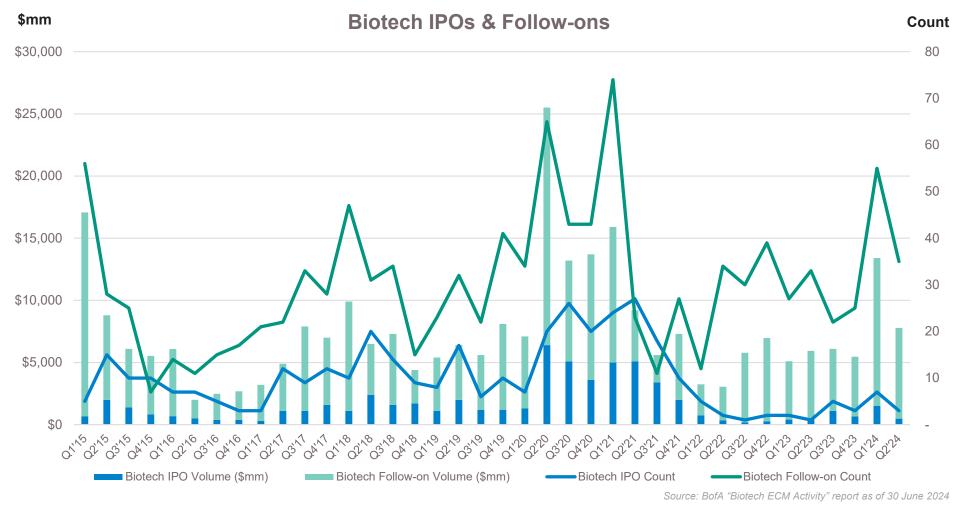
#### FDA New Molecular Entity Approvals





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

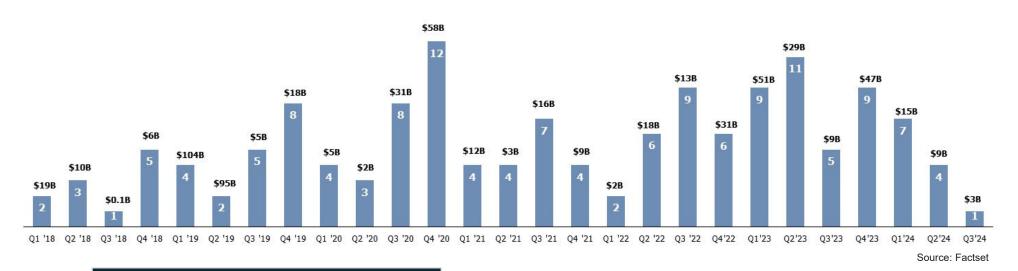
#### Financing Environment Improving



- 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

#### M&A Activity in Biotechnology

#### **Announced Public Biotech M&A Transactions**



#### 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"



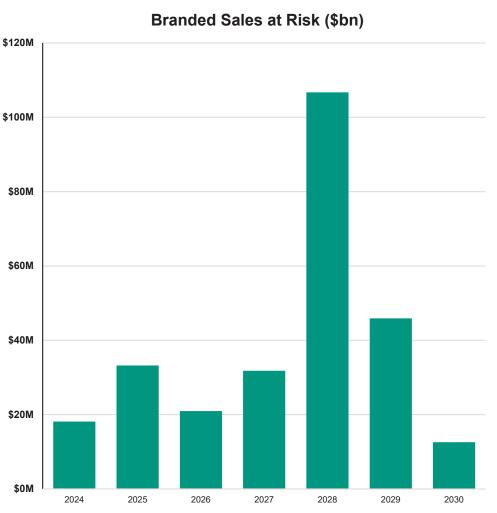
#### **CEO Joaquin Duato**

"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 AMBRX J&J AstraZeneca CHINOOK THERAPEUTICS WHO Bristol Myers Squibb Seagen CINCOR AstraZeneca AstraZeneca AstraZeneca AstraZeneca

## Big Pharma Patent Cliff Drives Biotech M&A

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



2024 2025 2026 2027 2028 2029

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) <sub>hadaa</sub> xxxxy	2028	\$25.0
abbvie	HUMIRA	2023	\$14.4
Rristol Myers Squibb	Eliquis。 (apixaban) tablets ﷺ	2026	\$12.2
Johnson Johnson	Stelara' (ustekinumab)	2025	\$10.9
Johnson Johnson	DARZALEX	2029	\$9.7
ر <sup>اا</sup> ا Bristol Myers Squibb°	OPDIVO.	2028	\$9.0
abbvie Johnson Johnson	imbruviča	2027	\$4.9
<b>P</b> fizer	IBRANCE palbociclib	2027	\$4.8

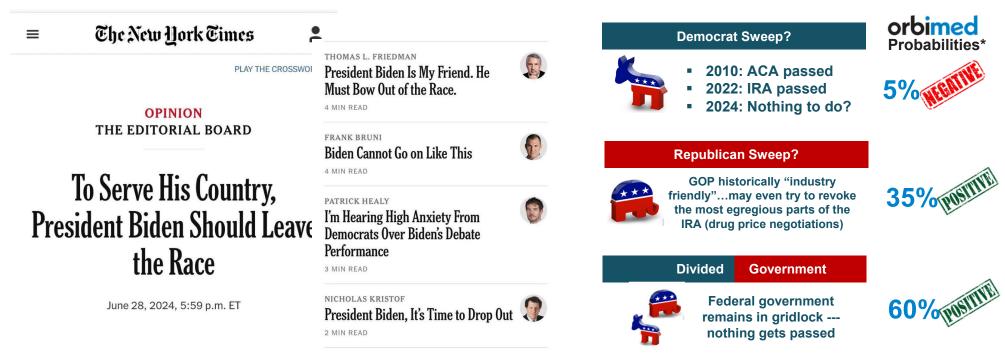
Source: S&P Global report, Company Reports

## 2024 U.S. Presidential Election



In flux after June 27 debate but split Congress likely to continue

- The poor showing by President Biden at last month's debate has created uncertainty about the Democratic candidate, with some calling for him to step aside
- The race as it stands today favors the Republicans and probability of a Trump win has increased
- Prospects of further drug pricing reform likely depends on a Democratic sweep, which appears unlikely
- Of course, if Biden were to step aside, things could change materially



#### 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
- o Interest rate headwinds abating; 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.

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# Appendix

# BIOG Holdings As of 30 June 2024

	Market Price	Pct.		Market Price	Pct.		Market Price	Pct.
UNITED STATES	\$ Millions	Value	UNITED STATES	\$ Millions	Value	INTERNATIONAL	\$ Millions	Value
Emerging Biotechnology	*		Emerging Biotechnology (cont.)	7		Europe	*	
ALX Oncology Holdings Inc	3.1	0.7	Prelude Therapeutics Inc	1.3	0.3	Emerging Biotechnology		
Alnylam Pharmaceuticals Inc	14.0	3.1	Repare Therapeutics Inc	0.2	0.0	ADC Therapeutics SA	4.8	1.1
Amicus Therapeutics Inc	5.7	1.3	Rhythm Pharmaceuticals Inc	12.0	2.7	Argenx SE	20.3	4.5
Apellis Pharmaceuticals Inc	6.2	1.4	Sarepta Therapeutics Inc	23.8	5.3	Immatics NV	8.4	1.9
Avidity Biosciences Inc	10.0	2.2	Scholar Rock Holding Corp	2.3	0.5	Merus NV	6.4	1.4
BioMarin Pharmaceutical Inc	2.1	0.5	Structure Therapeutics Inc	1.3	0.3		39.8	8.9
C4 Therapeutics Inc	3.2	0.7	Syndax Pharmaceuticals Inc	13.1	2.9			
Compass Therapeutics Inc	3.6	0.8	Tyra Biosciences Inc	6.1	1.4	Europe Subtotal	39.8	8.9
Cullinan Therapeutics Inc	4.6	1.0	Vaxcyte Inc	12.7	2.8	•		
Cytokinetics Inc	2.5	0.6	Vera Therapeutics Inc	8.4	1.9	Far East		
Dynavax Technologies Corp	1.3	0.3	Vir Biotechnology Inc	9.8	2.2	Emerging Biotechnology		
Dyne Therapeutics Inc	7.1	1.6	Xenon Pharmaceuticals Inc	9.1	2.0	BeiGene Ltd	4.7	1.1
Edgewise Therapeutics Inc	4.8	1.1		277.2	62.1	BrightGene Bio-Medical Technol	4.8	1.1
Enliven Therapeutics Inc	1.0	0.2	UNITED STATES			Gracell Biotechnologies Inc	0.5	0.1
Exact Sciences Corp	2.8	0.6	Major Biotechnology			Innovent Biologics Inc	7.5	1.7
Fate Therapeutics Inc	1.2	0.3	Amgen Inc	42.1	9.4	LakeShore Biopharma Co Ltd	0.9	0.2
Geron Corp	12.1	2.7	Biogen Inc	31.8	7.1	Mabwell Shanghai Bioscience Co	0.9	0.2
Heron Therapeutics Inc	9.0	2.0	Regeneron Pharmaceuticals Inc	24.0	5.4	New Horizon Health Ltd	1.1	0.2
Ionis Pharmaceuticals Inc	18.1	4.1	Vertex Pharmaceuticals Inc	7.6	1.7	OrbiMed Asia Partners	1.4	0.3
Janux Therapeutics Inc	13.2	3.0		105.5	23.6	QuantumPharm Inc	16.6	3.7
Kezar Life Sciences Inc	1.2	0.3				Shanghai Runda Medical Techno	3.5	0.8
Krystal Biotech Inc	5.5	1.2	United States Total	382.7	85.8	Stemirna*	0.3	0.1
Lexicon Pharmaceuticals Inc	3.5	0.8				Suzhou Basecare Medical Corp L	0.5	0.1
Lyell Immunopharma Inc	4.2	0.9					42.8	9.6
Milestone Pharmaceuticals Inc	1.3	0.3						
Mineralys Therapeutics Inc	10.0	2.2				Far East Subtotal	42.8	9.6
Morphic Holding Inc	8.1	1.8						
Neumora Therapeutics Inc	4.5	1.0				International Total	82.7	18.5
Neurocrine Biosciences Inc	10.4	2.3						
Nkarta Inc	3.0	0.7				Cash	-19.1	-4.3

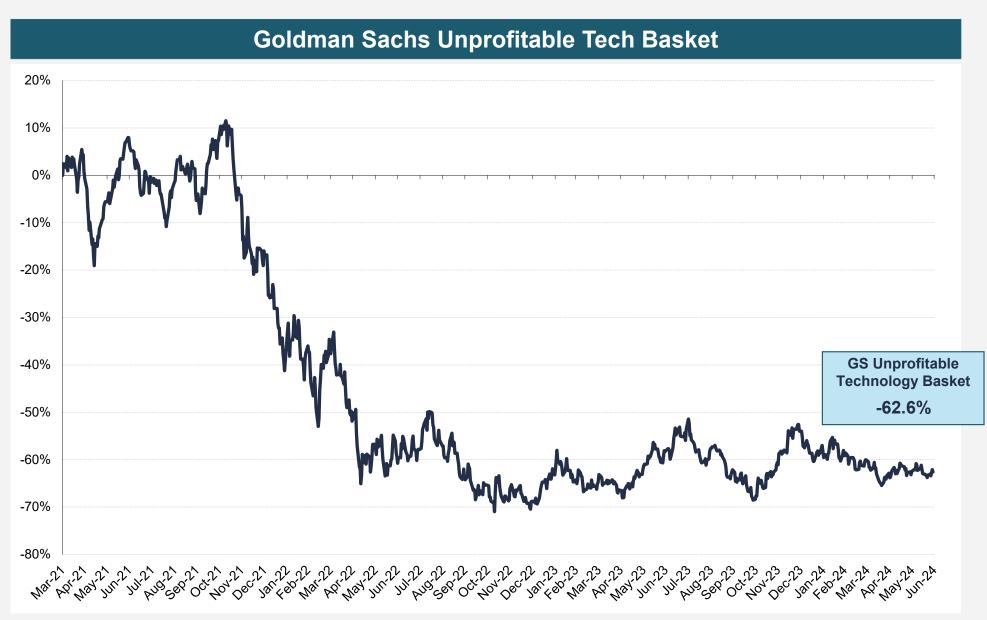
Note: securities with asterisks (\*) are unquoted

100.0

446.2

**Total Portfolio** 

## Unprofitable Tech Has Declined Meaningfully

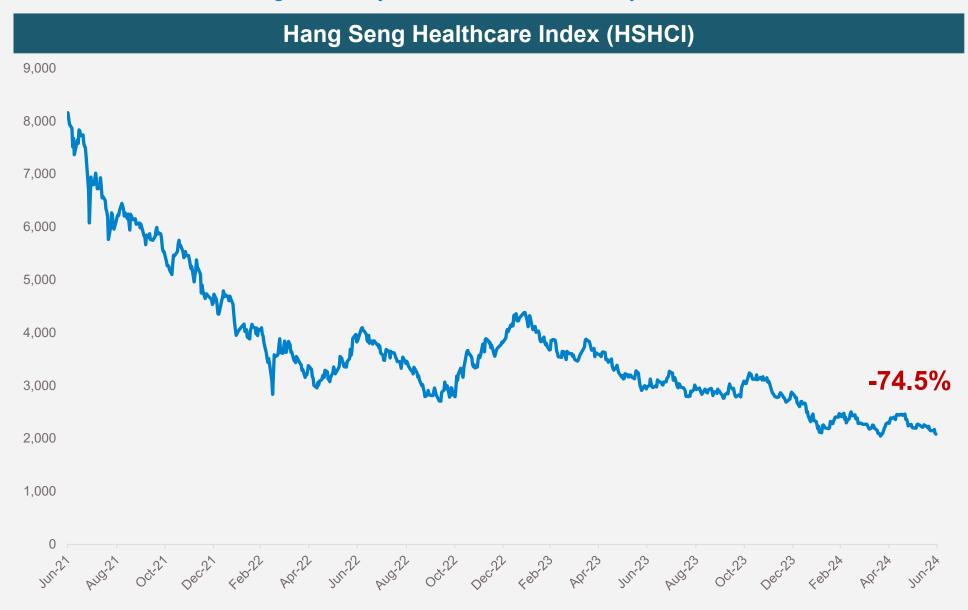


The GS Non-profitable tech basket (GSXUNPTC) consists of non-profitable US listed companies in innovative industries. Technology is defined broadly to include new economy companies across GICS industry groupings. Date range for chart is from 31 March 2021 to 30 June 2024



#### China Healthcare At All-Time Low

Innovation remains strong; recovery should occur eventually



Source: Bloomberg, OrbiMed Advisors

Note: Chart updated from 30 June 2021 through 30 June 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:

1 Std. Deviation
44.0
64.7
80.9

 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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An investment in the fund is speculative and involves a high degree of risk. The fund is an investment trust listed on the London Stock Exchange. Investment trusts have the ability to borrow to invest, which is known as gearing. Companies with higher gearing are subject to higher risks, and therefore the investment value may change substantially. The value and the performance of the net asset value of the fund may not be the same as its share price. In considering an investment in the fund, prospective investors should also be aware of certain other special considerations and risk factors, including those related to: the risk of deterioration in the financial markets in general and the healthcare sector in particular; the risk that the fund could incur losses due to the failure of third parties to perform their contractual commitments to the fund or financial difficulties on the part of brokerage firms, banks or other financial institutions that hold assets of the fund; risks arising from the operation of pooled investment vehicles like the fund; and tax-related risks arising from the status and operation of the fund. See the Fund Documents for more detail on those and other risks.

No guarantee or representation is made that a fund will achieve its investment objective or that the fund's risk management strategies will be successful. The fund's performance may be volatile, and investors in the fund could lose all or a substantial amount of their investment. In addition, the fees and expenses charged in connection with an investment in the fund may be higher than those charged in connection with other investments, and in some market conditions, may offset trading profits. Accordingly, shares or interests are suitable only for sophisticated investors for whom an investment in the fund does not constitute a complete investment program and who fully understand and are willing to assume the risks involved in the fund's investment program.

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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.

