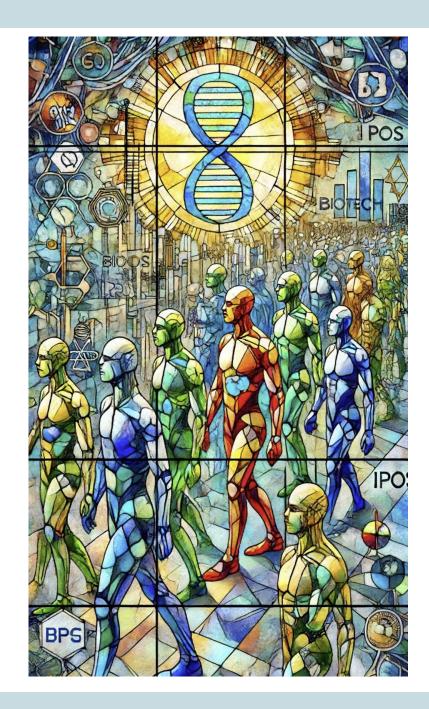
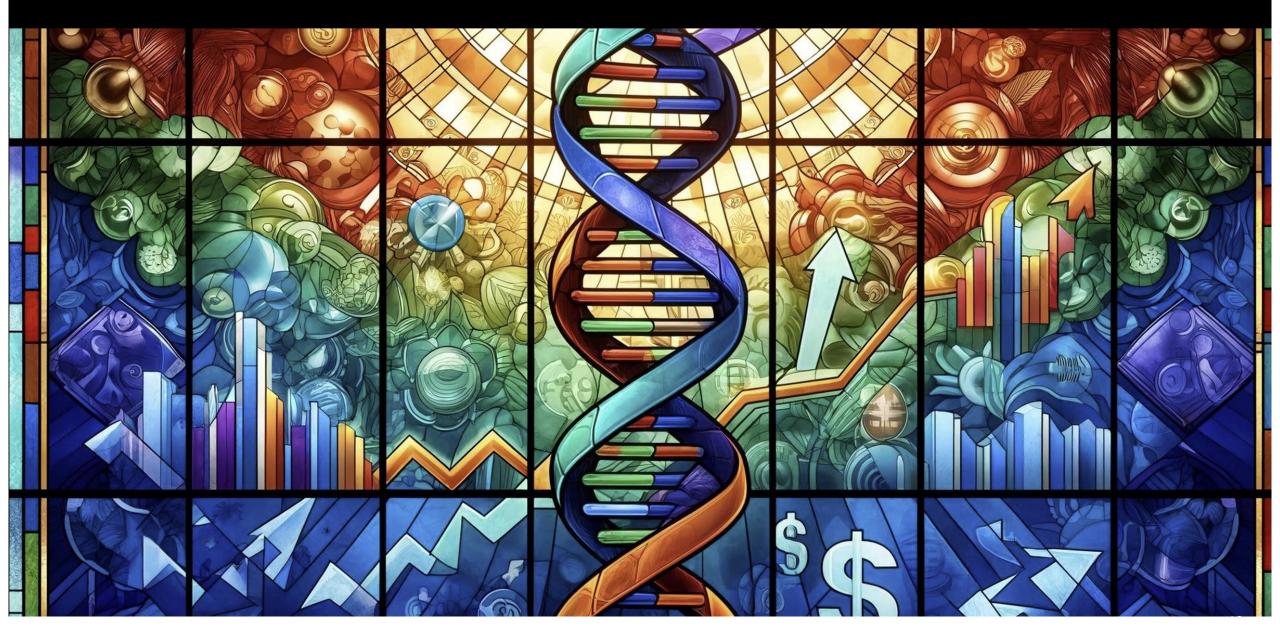
BIOPHARMA INVESTING CONSIDERATIONS

VALUEX VAIL 2024



Biopharma Market Update



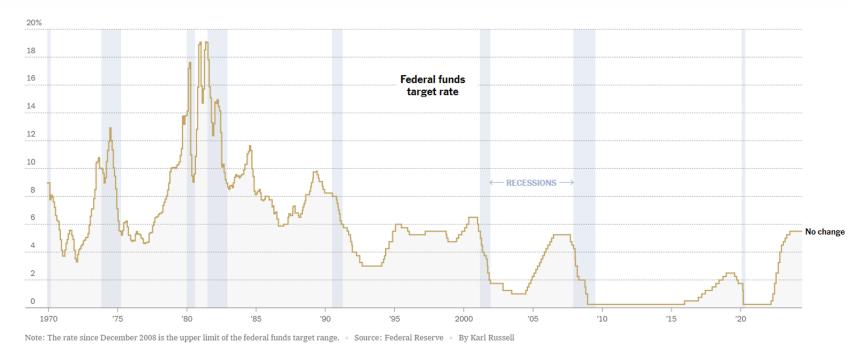
The Fed Holds Rates Steady and Predicts Just One Reduction This Year

Jeanna Smialek, New York Times, June 12, 2024 (excerpt)

Federal Reserve officials left interest rates unchanged at their June meeting on Wednesday and predicted that they will cut borrowing costs just once before the end of 2024, taking a cautious approach as they try to avoid declaring a premature victory over inflation.

While the Fed had been expected to leave rates unchanged, its projections for how interest rates may evolve surprised many economists.

When Fed officials last released quarterly economic estimates in March, they anticipated cutting interest rates three times this year. Investors had expected them to revise that outlook somewhat this time, in light of stubborn inflation early in 2024, but the shift to a single cut was more drastic.



Excerpt from Stifel Healthcare (Advisory Bank) Biopharmaceutical Sector Update Report June 2024

XBI REMAINS LOW COMPARED WITH COVID-ERA HIGHS

XBI: SPDR S&P Biotech ETF



XBI CONTINUES TO DIVERGE FROM S&P 500

Over the last 3 years, the XBI is down 33% while the S&P 500 is up 27.7% (most this year). Nvidia has driven quite a bit of the S&P 500 with a 631% rise in the last three years. AI and tech stocks are driving the market in recent years while biotech has not captured the imagination of investors in the same way.

Performance of S&P 500 vs. XBI, June 14, 2021 to June 14, 2024

– S&P 500 –––– XBI

Excerpt from Stifel Healthcare (Advisory Bank) Biopharmaceutical Sector Update Report June 2024



The XBI has underperformed the S&P 500 by a whopping 61% over the last three years.

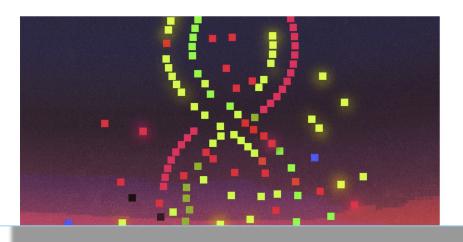
INDUSTRY MEMBERS BELIEVE INNOVATION WILL LEAD TO SIGNIFICANT GROWTH

The New York Times Magazine

Suddenly, It Looks Like We're in a Golden Age for Medicine

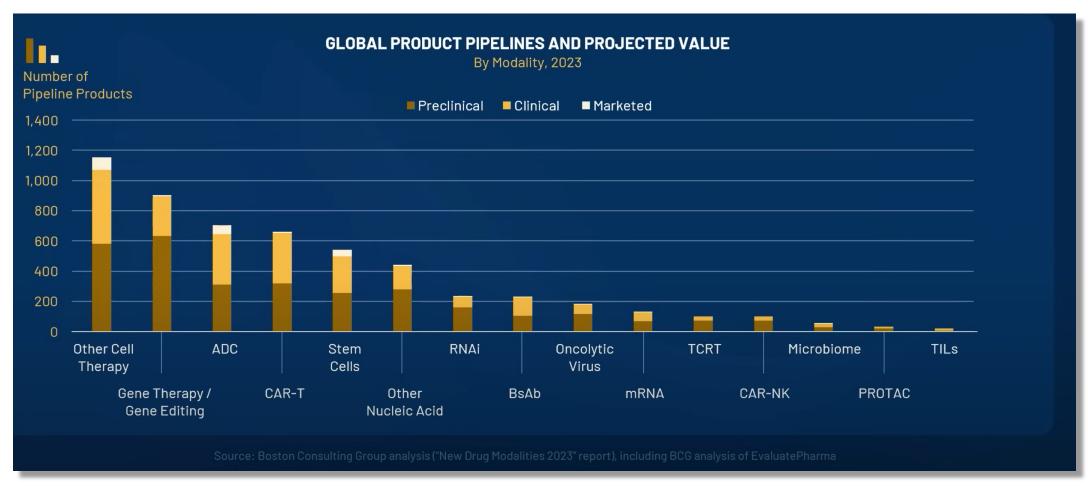
We may be on the cusp of an era of astonishing innovation — the limits of which aren't even clear yet.





Hype springs eternal in medicine, but lately the horizon of new possibility seems almost blindingly bright. "I've been running my research lab for almost 30 years," says Jennifer Doudna, a biochemist at the University of California, Berkeley. "And I can say that throughout that period of time, I've just never experienced what we're seeing over just the last five years."

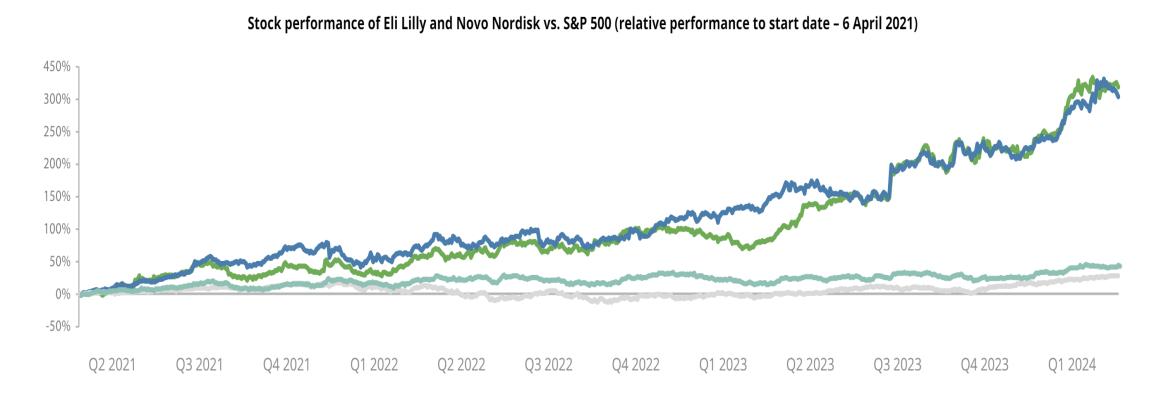
INCREDIBLE DIVERSITY OF NEW MODALITIES ACROSS INDUSTRY



Source: Atlas, Boston Consulting Group

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CATCHING LIGHTNING IN A BOTTLE LIKE GLP-1 DRUGS MAY BE CHALLENGING...



THREE BIOPHARMA INVESTMENT OPTIONS FOR CONSIDERATION



- Britain's biggest drugmaker, AstraZeneca, has set out a bold ambition to reach \$80bn (£63bn) in revenues by 2030 from treatments for cancer, rare diseases and other conditions, by launching 20 major new medicines before the end of the decade.
- Aspires to shift standard of care for many cancers from chemotherapy to antibody drug conjugates
- Value oriented

- SPDR X B I
- Sana Biotechnology

- ETF that allows exposure to smaller biopharma sector with a diverse collection of companies
- At a relatively low point compared to past highs
- Could perform well if and when interest rates begin to drop
- SPECULATIVE
- Cell therapy startup with strong management team and track record
- Is on the verge of releasing their first human data (first half 2024) for their type-1 diabetes program which could be curative
- Pipeline of autoimmune cell therapy programs

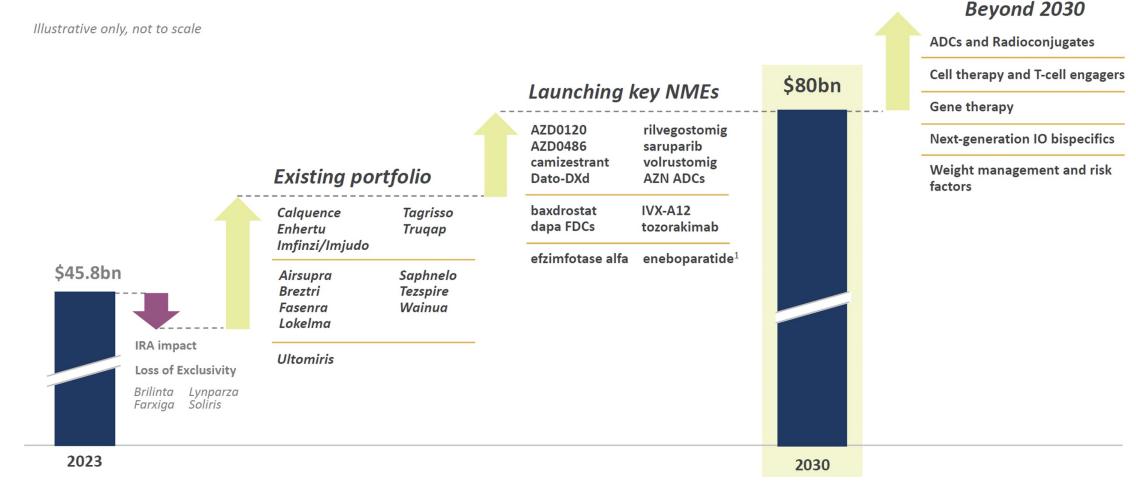
ASTRAZENECA DELIVERED ON THEIR PRIOR AMBITION TO ACHIEVE \$45B REVENUE

Delivered on ambition to achieve >\$45bn Total Revenue by 2023



BIOPHARMA INVESTING 2024

Ambition – \$80bn Total Revenue by 2030 and sustained 2030+ growth Working on "today, tomorrow and the day after"



BIOPHARMA INVESTING 2024

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AstraZeneca Investor Day June 2024

BIOPHARMA INVESTING 2024

XBI TOP HOLDINGS AS OF JUNE 2024

No.	Symbol	Name	% Weight
1	NVAX	Novavax, Inc.	2.86%
2	INSM	Insmed Incorporated	2.49%
3	<u>MRNA</u>	Moderna, Inc.	1.47%
4	TWST	Twist Bioscience Corporation	1.44%
5	<u>GERN</u>	Geron Corporation	1.39%
6	DYN	Dyne Therapeutics, Inc.	1.35%
7	<u>NTRA</u>	Natera, Inc.	1.34%
8	<u>RVMD</u>	Revolution Medicines, Inc.	1.30%
9	<u>HALO</u>	Halozyme Therapeutics, Inc.	1.28%
10	<u>UTHR</u>	United Therapeutics Corporation	1.28%
11	<u>VRTX</u>	Vertex Pharmaceuticals Incorporated	1.26%
12	PTCT	PTC Therapeutics, Inc.	1.24%
13	BPMC	Blueprint Medicines Corporation	1.24%
14	<u>AMGN</u>	Amgen Inc.	1.18%
15	MDGL	Madrigal Pharmaceuticals, Inc.	1.18%
16	<u>CRNX</u>	Crinetics Pharmaceuticals, Inc.	1.16%
17	ALNY	Alnylam Pharmaceuticals, Inc.	1.16%
18	<u>REGN</u>	Regeneron Pharmaceuticals, Inc.	1.16%
19	<u>AGIO</u>	Agios Pharmaceuticals, Inc.	1.15%
20	<u>BCRX</u>	BioCryst Pharmaceuticals, Inc.	1.14%
21	<u>BIIB</u>	Biogen Inc.	1.12%
22	INCY	Incyte Corporation	1.12%
23	<u>KRYS</u>	Krystal Biotech, Inc.	1.12%
24	<u>RYTM</u>	Rhythm Pharmaceuticals, Inc.	1.10%

SANA BIOTECHNOLOGY

Sana Biotechnology Inc.

188 East Blaine Street Suite 400 Seattle, Washington 98102

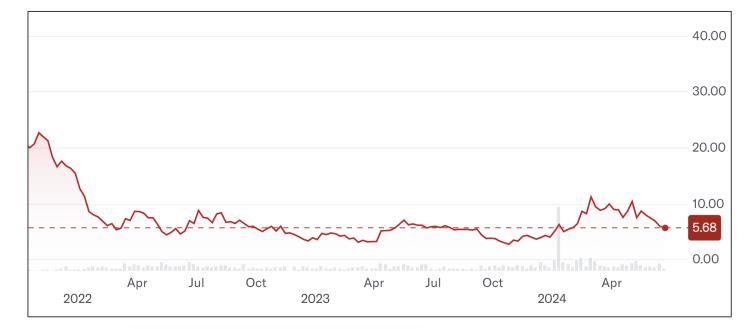
PHONE 1 206 701-7914

INDUSTRY Biotechnology

SECTOR

Health Care/Life Sciences

FISCAL YEAR-END 12/2023	revenue N/A
NET INCOME - \$269.48M	2022 SALES GROWTH
EMPLOYEES 421	



KEY DATA		PERFORMANCE	
OPEN \$5.99	DAY RANGE 5.64 - 5.99	5 Day	-17.56%
52 WEEK RANGE	MARKET CAP	1 Month	-31.57%
2.75 - 12.00	\$1.33B	3 Month	-34.34%
SHARES OUTSTANDING	PUBLIC FLOAT	YTD	39.22%
221.32M	120.52M		
BETA	REV. PER EMPLOYEE	1 Year	-8.24%
2.10	N/A		
P/E RATIO	EPS	ANALYST RATINGS	AVG
N/A	-\$1.53	SELL UNDER HO	
YIELD	DIVIDEND	NUMBER OF RATINGS 5	FULL RATINGS \rightarrow
N/A	N/A		

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SANA PIPELINE

Sana pipeline positioned to deliver meaningful clinical data

PRODUCT CANDIDATE	MECHANISM	INDICATIONS	PRECLINICAL IND-ENABLING	PHASE 1	PHASE 2/3	SANA'S RIGHTS			
Oncology									
SC291	CD19-directed allo CAR T	NHL	ARDENT			WW			
SC291	CD19-directed allo CAR T	CLL	ARDENT			WW			
SC262	CD22-directed allo CAR T	NHL (CD19 failures)	VIVID			WW			
SC255	BCMA-directed allo CAR T	MM				WW			
B-cell Mediated Autoimmune Diseases									
SC291	CD19-directed allo CAR T	LN	GLEAM			WW			
SC291	CD19-directed allo CAR T	ERL	GLEAM			WW			
SC291	CD19-directed allo CAR T	AAV	GLEAM			WW			
SC291	CD19-directed allo CAR T	Other indications				WW			
Regenerative Medicine									
UP421	HIP primary islet cells ¹	T1D				WW			
SC451	Stem-cell derived pancreatic islet cells	T1D				WW			
SC379	Glial progenitor cells	HD, PMD, SPMS				WW			

¹Investigator sponsored trial.

Abbreviations: AAV, ANCA-associated vasculitis; CLL, chronic lymphocytic leukemia; ERL, extrarenal systemic lupus erythematosus; HD, Huntington's disease; LN, lupus nephritis; MM, multiple myeloma; NHL, non-Hodgkin lymphoma; PMD, Pelizaeus-Merzbacher Disease; SPMS, secondary progressive multiple sclerosis; T1D, type 1 diabetes; WW, worldwide.



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CONSIDERATIONS FOR INDIVIDUAL COMPANIES

Sampling of criteria

- Multiple products in pipeline (rather than single-asset companies)
- Pipeline is in disease areas of interest to larger biopharma
- Sufficient cash on hand to fund operations and clinical development through next inflection points (optimally 1.5 years or more)
- History of collaborations with larger pharma companies (this demonstrates some level of scientific validation by third parties)
- Strong scientific management

SIOPHARMA NVESTING 2024



Explore more presentations at <u>VALUExVail.com</u>