



Can Biotech be Resilient in the Face of Uncertainty?

BDO Biotech Brief / Summer 2025

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Introduction



This past year brought steady growth to life sciences. The number of biotech IPOs increased slightly in 2024 compared to 2023, allowing the industry to enter 2025 on relatively strong footing.

But current political and economic disruption could slow growth, particularly for companies that do not have the cash on hand to weather a delay in fundraising rounds or longer IPO timelines. In the Summer 2025 Biotech Brief, BDO analyzes the state of the biotech industry, through the lens of the NASDAQ Biotech Index.

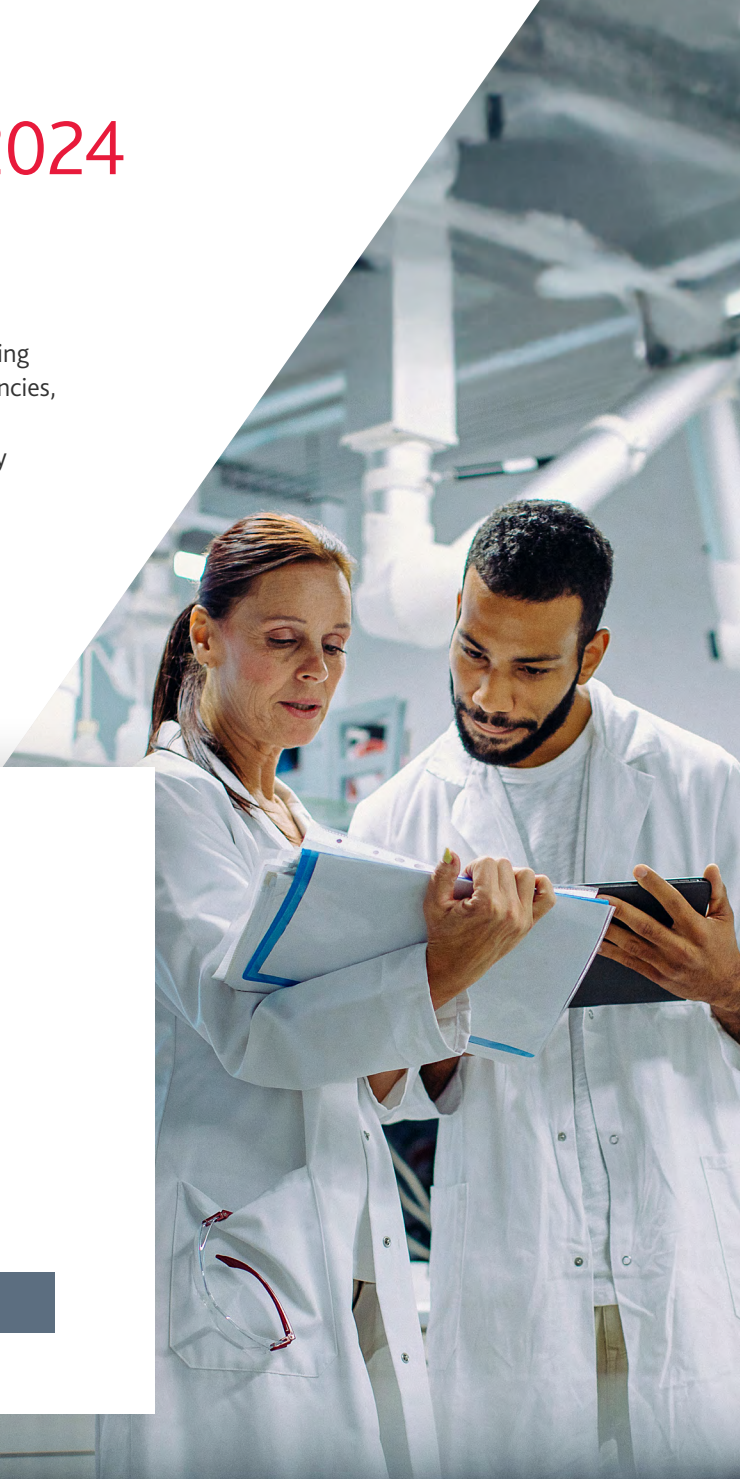
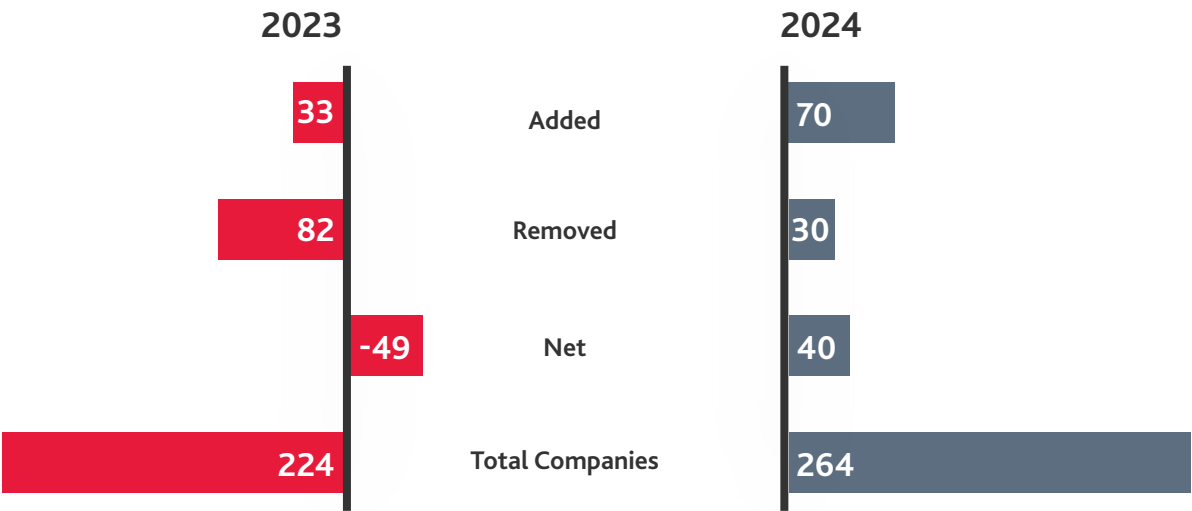
The *Summer 2025 Biotech Brief* uses the current constitution of the NASDAQ Biotech Index (NBI), following its reconstitution in December 2024. Eligibility requirements for the NBI include having a minimum market capitalization of \$200 million and an average daily trading volume of 100,000 shares.

NASDAQ Biotech Index Sees Growth in 2024

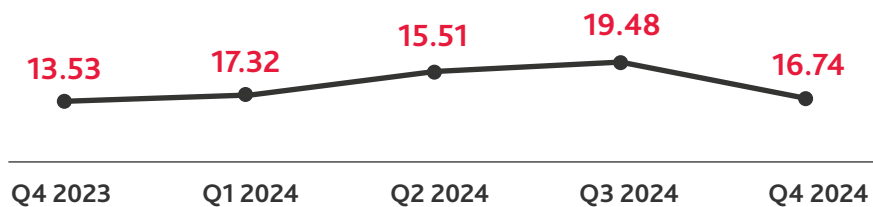
Last year, 70 companies were added to the NBI — more than doubling the 33 added in 2023. With only 30 companies removed in 2024, the NBI saw a net positive change of 40 companies. This increase of companies on the NBI illustrates that more biotech companies are meeting the market capitalization requirements to join the index, indicating the industry was recovering at the end of 2024.

However, market volatility has materialized in 2025, with markets fluctuating due to unclear tariff policy. In addition, cuts to government healthcare agencies, as well as new agency leadership with different health research priorities is further contributing to uncertainty within the biotech industry. Uncertainty and market turmoil could lead to less private capital fundraising in 2025. Some biotechs may not have the funding to advance their products in development to clinical trials and beyond, which could result in a smaller number of companies on the NBI by the end of the year.

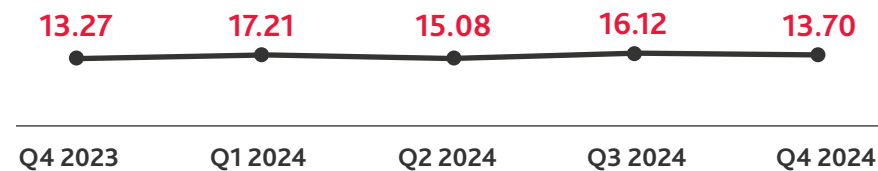
CHANGES TO THE NBI



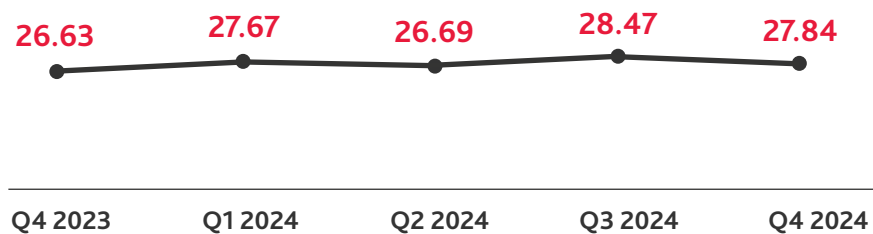
NBI CHANGE IN AVERAGE STOCK PRICE - PRE-REVENUE



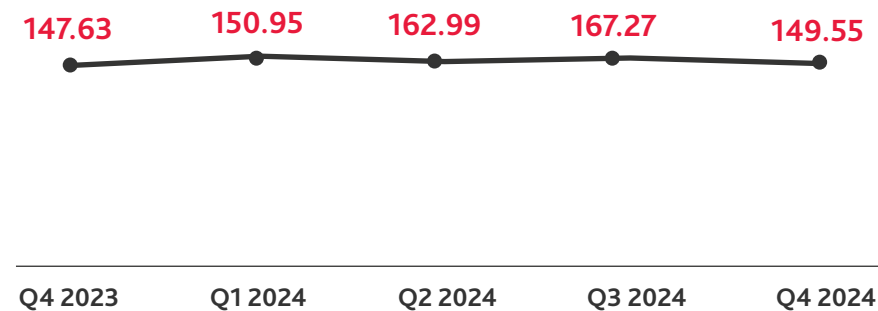
NBI CHANGE IN AVERAGE STOCK PRICE - SMALL



NBI CHANGE IN AVERAGE STOCK PRICE - MID



NBI CHANGE IN AVERAGE STOCK PRICE - LARGE

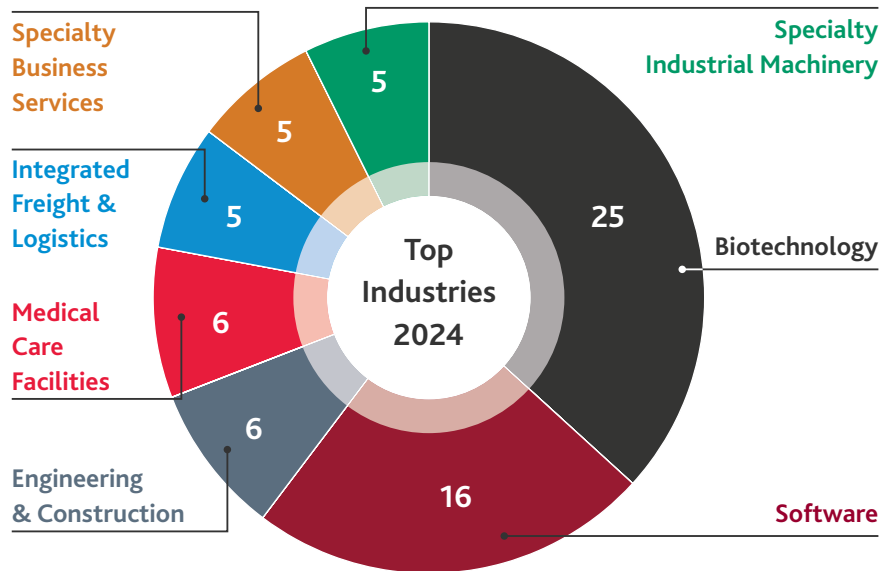


Pre-Revenue = no recorded revenue as of the previous year
Small = \$0-\$50m
Mid = \$50m - \$1b
Large = \$1b+

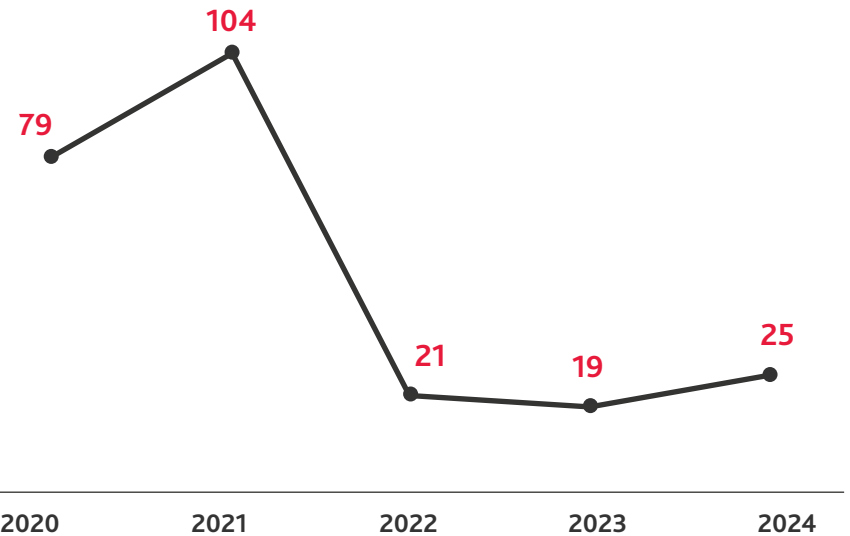
Biotech Leads the IPO Charts

Biotech was the top industry to IPO in 2024, with 25 IPOs. Of those 25 new IPOs, seven were added to the NBI. Six more biotechs went public in 2024 compared to 2023. Overall, there were 68 IPOs in 2024. Other industry leaders include software, engineering and construction, and medical care facilities.

NUMBER OF IPOs BY INDUSTRY



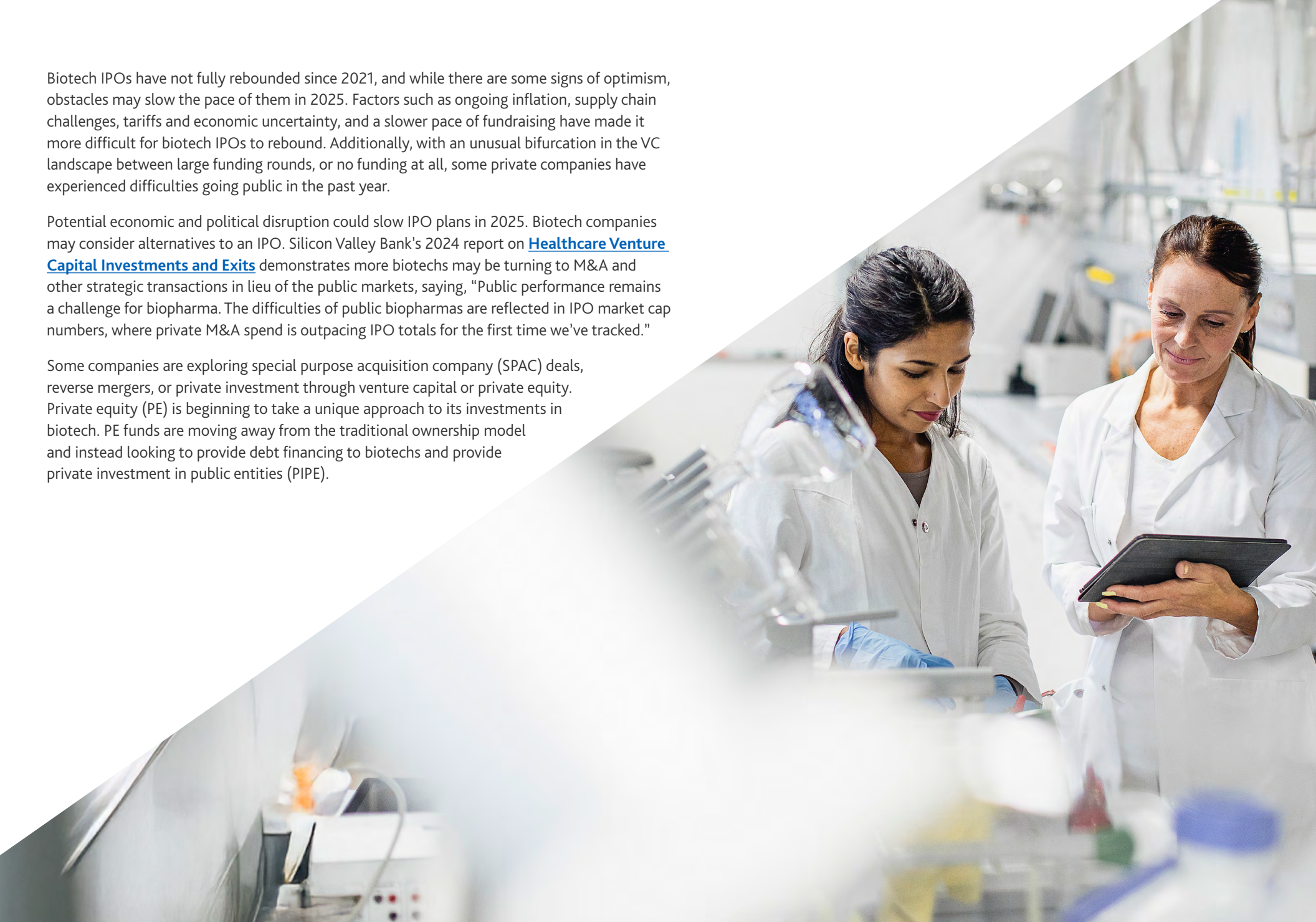
BIOTECH IPOs PER YEAR ACCORDING TO BIOPHARMA DIVE



Biotech IPOs have not fully rebounded since 2021, and while there are some signs of optimism, obstacles may slow the pace of them in 2025. Factors such as ongoing inflation, supply chain challenges, tariffs and economic uncertainty, and a slower pace of fundraising have made it more difficult for biotech IPOs to rebound. Additionally, with an unusual bifurcation in the VC landscape between large funding rounds, or no funding at all, some private companies have experienced difficulties going public in the past year.

Potential economic and political disruption could slow IPO plans in 2025. Biotech companies may consider alternatives to an IPO. Silicon Valley Bank's 2024 report on [Healthcare Venture Capital Investments and Exits](#) demonstrates more biotechs may be turning to M&A and other strategic transactions in lieu of the public markets, saying, "Public performance remains a challenge for biopharma. The difficulties of public biopharmas are reflected in IPO market cap numbers, where private M&A spend is outpacing IPO totals for the first time we've tracked."

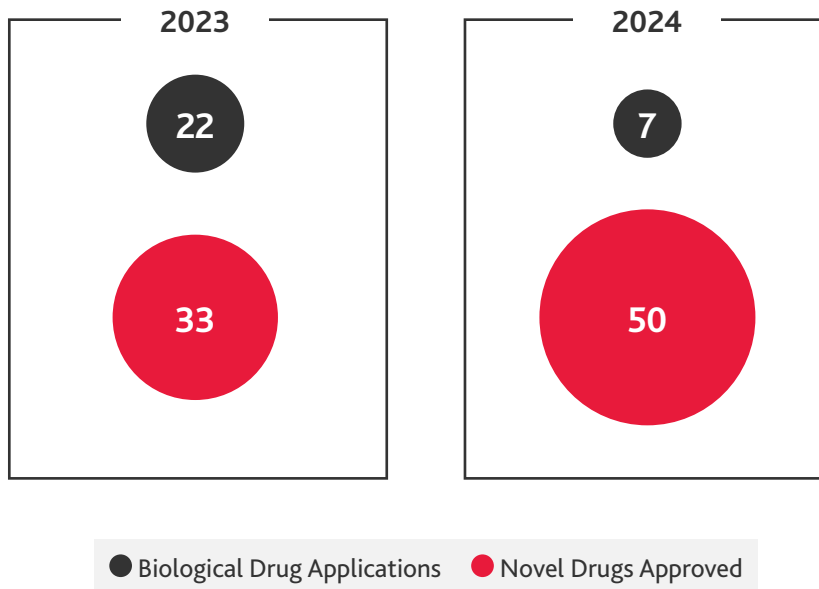
Some companies are exploring special purpose acquisition company (SPAC) deals, reverse mergers, or private investment through venture capital or private equity. Private equity (PE) is beginning to take a unique approach to its investments in biotech. PE funds are moving away from the traditional ownership model and instead looking to provide debt financing to biotechs and provide private investment in public entities (PIPE).



FDA Approvals Remain Steady in 2024

2024 saw 50 novel drug approvals and seven biological applications. In comparison, there were 33 novel drug approvals and 22 biological applications in 2023.

FDA DRUG APPROVALS IN 2023 AND 2024



Of the novel drug approvals in 2024, the top therapeutics approved were oncology/ cancer treatments, hematology, and cardiovascular. Oncology was a priority of the Biden administration, but the focus of the Trump administration remains unclear. Cuts to federal research grants may slow early-stage development in oncology and other disease areas.

In addition, cuts in staff could delay overall approvals in 2025. For example, there is some concern that the Food and Drug Administration (FDA) is failing to meet Prescription Drug User Fee Act (PDUFA) and Medical Device User Fee and Modernization Act (MDUFA) dates by which they are required to make an approval decision. If this reauthorization is delayed, the FDA may lose annual user fee revenues that fund prescription drug reviews and other associated regulatory activities.

This may be caused by staffing cuts at the FDA. If this develops into a trend, it will be more challenging for biotechs and investors to make decisions on when to IPO, given uncertainty with FDA approval timing.

FDA APPROVALS IN 2024 BY THERAPEUTIC TYPE

Oncology/cancer	16
Hematology	9
Cardiovascular	6
Dermatology	7
Rare Disease	3
Hepatology/liver	3
Neurology	3
Urology	3
Respiratory	3
Psychiatry	1
Endocrinology	2
Infectious Disease	1

**Some approvals span multiple types of disease areas and are counted more than once.*

After approving six cell and gene therapies in 2023, the FDA continued its momentum on cell and gene therapy in 2024, [approving seven therapies](#). While there's been success, the cell and gene therapy sector continues to face challenges, including the high cost of goods, efficacy challenges, limited patient populations, and complex treatment regimens. Gene therapy in particular faces challenges with adoption and launching products into the market, which could dissuade future investors.

In addition, the new administration may shift priorities, and an unpredictable economic landscape could slow development in 2025. The current administration has already stated its plans to deprioritize infectious disease research, and recent cuts to federal health research grants could delay early-stage research.

While it remains to be seen if the new administration's priorities will affect the pace of drug approvals at the FDA, slower early-stage research may hinder investor interest in biotech companies.

To maintain industry research momentum life sciences companies should consider diversifying funding sources, staying informed on federal priorities, and enhancing regulatory compliance and risk mitigation. Learn more in our insight:

[Best Practices for Biodefense and Life Sciences Contractors Amid Federal Funding Uncertainty.](#)

Looking Ahead



While there is potential for a rebound in the biotech IPO market, current market dynamics could create headwinds in the gain in value of the NBI. In addition, the cuts to federal health research funding could complicate innovation. In the short term, cuts to the FDA budget and workforce could slow drug approvals this year. Longer term, fewer government grants could slow development for early-stage research, resulting in fewer drugs reaching the clinical trial stage in five to ten years. Between now and then, regulatory shifts could create even more challenges for the biotech industry. Overall, life sciences companies must remain agile to navigate regulatory changes and a dynamic economic environment to achieve their business goals.

METHODOLOGY

This edition of BDO's Biotech Brief examines the December reconstitution of companies listed on the Nasdaq Biotechnology Index, which includes organizations classified as biotechnology or pharmaceutical companies according to the Industry Classification Benchmark with a minimum market capitalization of at least \$200 million and an average daily trading volume of at least 100,000 shares. BDO used CalcBench to conduct this data analysis and supplementary sources where noted.

Congratulations to the NBI Class of 2025

NAME	TICKER
10X GENOMICS, INC.	TXG
2SEVENTY BIO, INC.	TSVT
ABSCI CORPORATION	ABSI
ACRIVON THERAPEUTICS, INC.	ACRV
ALPHA TEKNOVA, INC.	TKNO
ALTIMMUNE, INC.	ALT
ALUMIS INC.	ALMS
ALVOTECH SA	ALVO
AMNEAL PHARMACEUTICALS, INC.	AMRX
ANNEXON, INC.	ANNX
APPLIED THERAPEUTICS, INC.	APLT
AQUESTIVE THERAPEUTICS, INC.	AQST
ARRIVENT BIOPHARMA, INC.	AVBP
ARTIVA BIOTHERAPEUTICS, INC.	ARTV
ASTRIA THERAPEUTICS, INC.	ATXS
AURA BIOSCIENCES, INC.	AURA
C4 THERAPEUTICS INC	CCCC
CARGO THERAPEUTICS, INC.	CRGX
CARTESIAN THERAPEUTICS, INC.	RNAC
CG ONCOLOGY, INC.	CGON

NAME	TICKER
CLIMB BIO, INC.	CLYM
CODEXIS, INC.	CDXS
COMPASS PATHWAYS PLC	CMPS
CORMEDIX INC.	CRMD
CORVUS PHARMACEUTICALS, INC.	CRVS
DESIGN THERAPEUTICS INC	DSGN
ENANTA PHARMACEUTICALS, INC.	ENTA
ENTRADA THERAPEUTICS, INC.	TRDA
ESPERION THERAPEUTICS, INC.	ESPR
FATE THERAPEUTICS, INC.	FATE
FOGHORN THERAPEUTICS INC.	FHTX
GRAIL, INC.	GRAL
IGM BIOSCIENCES, INC.	IGMS
INDIVIOR PLC	INDV
INOZYME PHARMA, INC.	INZY
KYVERNA THERAPEUTICS, INC.	KYTX
LARIMAR THERAPEUTICS, INC.	LRMR
LENZ THERAPEUTICS, INC.	LENZ
LEXEO THERAPEUTICS, INC.	LXEO
MERSANA THERAPEUTICS, INC.	MRSN

Congratulations to the NBI Class of 2025

NAME	TICKER
MESOBlast Limited	MESO
MIND Medicine (MindMed) Inc.	MNMD
MONTE ROSA Therapeutics, Inc.	GLUE
NEUMORA Therapeutics, Inc.	NMRA
Neurogene Inc.	NGNE
NEWAMSTERDAM PHARMA COMPANY NV	NAMS
NKarta, Inc.	NKTX
OMEROS CORPORATION	OMER
ONKure Therapeutics, Inc.	OKUR
ORUKA Therapeutics, Inc.	ORKA
PEPGEN Inc.	PEPG
PERSONALIS, Inc.	PSNL
PRAXIS Precision Medicines, Inc.	PRAX
PYXIS Oncology, Inc.	PYXS
Q32 Bio Inc.	QTTB

NAME	TICKER
RAPPORT Therapeutics, Inc.	RAPP
Rigel Pharmaceuticals, Inc.	RIGL
SCPharmaceuticals Inc.	SCPH
SILENCE Therapeutics PLC	SLN
SOLID Biosciences Inc.	SLDB
SPYRE Therapeutics, Inc.	SYRE
STOKE Therapeutics, Inc.	STOK
SUTRO Biopharma, Inc.	STRO
TECTONIC Therapeutic, Inc.	TECX
TEMPUS AI, Inc.	TEM
TEVOGEN Bio Holdings Inc.	TVGN
TREVI Therapeutics, Inc.	TRVI
TSCAN Therapeutics, Inc.	TCRX
TYRA Biosciences, Inc.	TYRA
ZEVRA Therapeutics, Inc.	ZVRA

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