

LIFE SCIENCE TREND ANALYSIS

MARYLAND | 2022



VENTURE VALUATION
GLOBAL VALUATION SERVICES



JUNE 2022



ABOUT US



The following statistical information has been obtained from Biotechgate, a global, comprehensive life science database encompassing the biotechnology, pharmaceutical and medical device industries.

www.biotechgate.com



Biotechgate is owned and operated by Venture Valuation AG, a Zurich based company specializing in independent assessment and valuation of technology-driven companies in high growth industries, such as the life sciences (biotech, pharma, medtech), ICT, high-tech, nanotech, cleantech and renewable energy.

www.venturevaluation.com



Venture Valuation is providing the Life Sciences Directory as part of their partnership with the Maryland Department of Commerce's Office of Life Sciences – a free tool for exploring more than 1,200 profiles of companies active in Maryland's robust life science markets.

<https://commerce.maryland.gov/lifesciencesdirectory>

OUR PARTNER



Maryland Department of Commerce

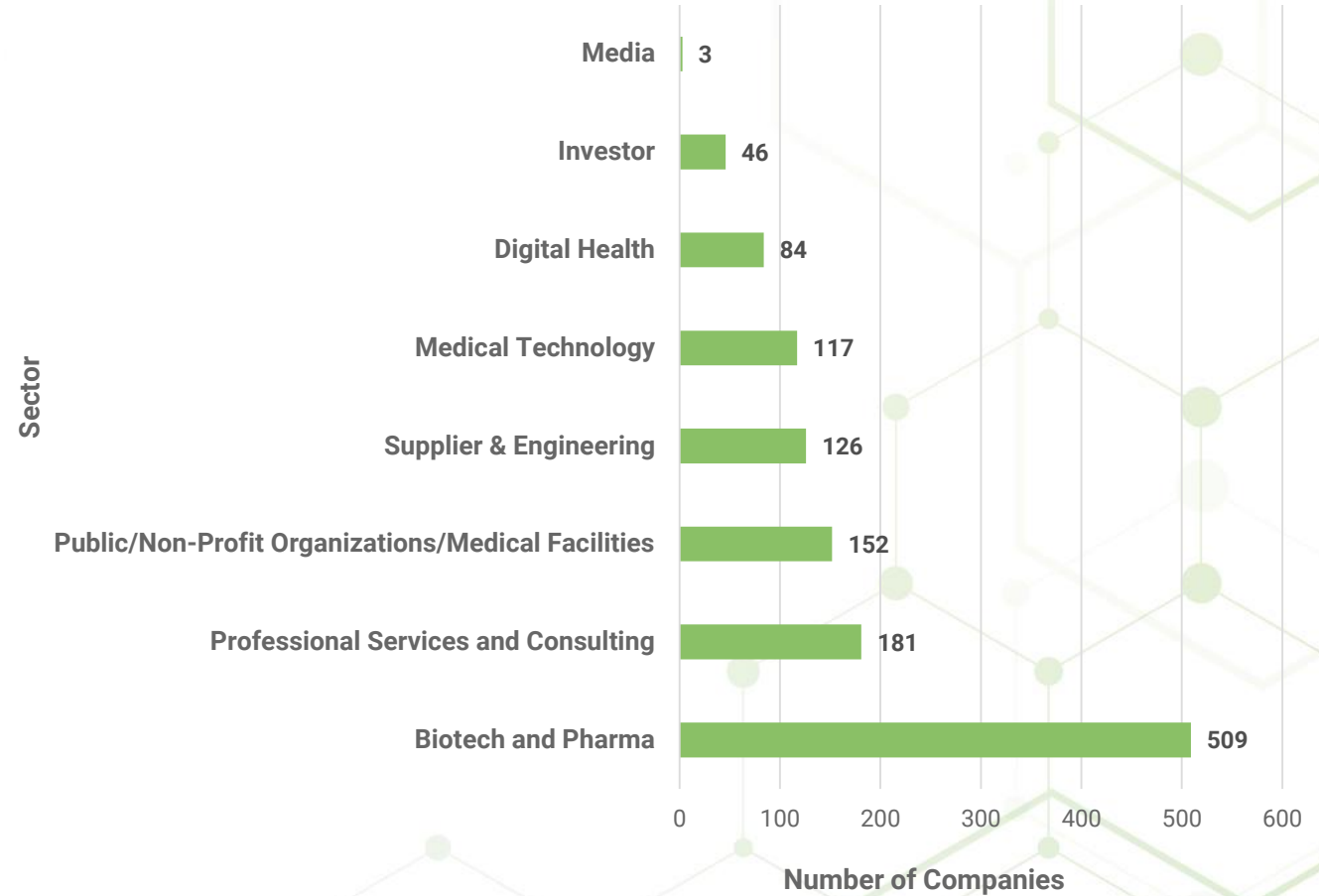
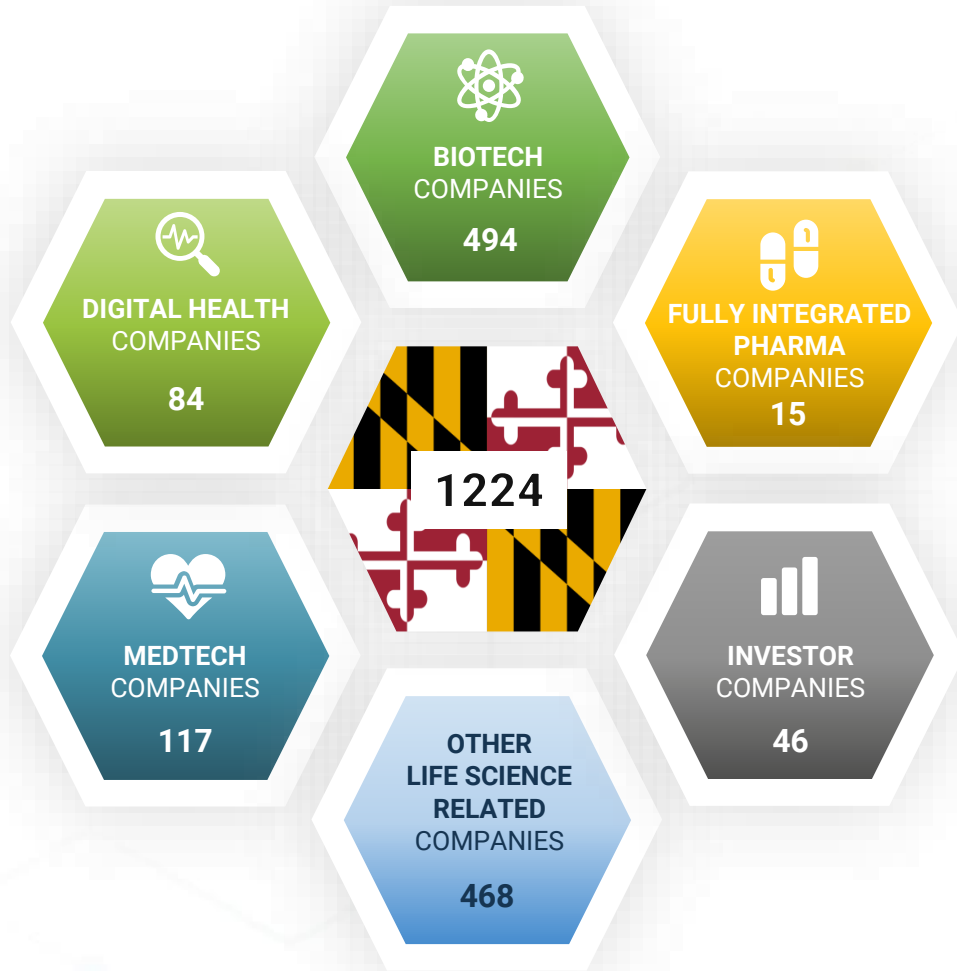
As the state of Maryland's primary economic development agency, the [Department of Commerce](#) stimulates private investment and creates jobs by attracting new businesses, encouraging the expansion and retention of existing companies, and providing workforce training and financial assistance to companies. The Department also promotes the state's many economic advantages and markets local products and services at home and abroad to spur economic development and international investment, trade and tourism.

Maryland is the premier location for more than 1,200 life sciences businesses. Powering these businesses is one of the nation's highest concentrations of PhDs and engineers, along with a healthy pipeline of professional and technical workers. Maryland offers proximity to a powerhouse supply of research and development – more than 74 federal laboratories – including the National Institutes of Health, National Institute of Standards and Technology and the Food and Drug Administration. Other major assets include more than 50 top universities, many with thriving university research parks, and 50+ incubators, accelerators and co-working spaces for Maryland innovators and international entrepreneurs.



OVERVIEW OF THE LIFE SCIENCE INDUSTRY

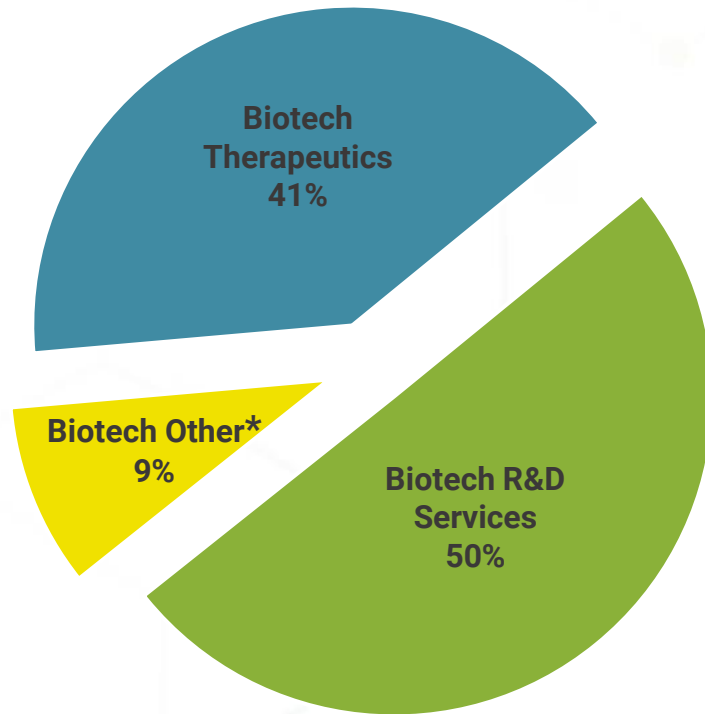
NUMBER OF COMPANIES BY SECTOR



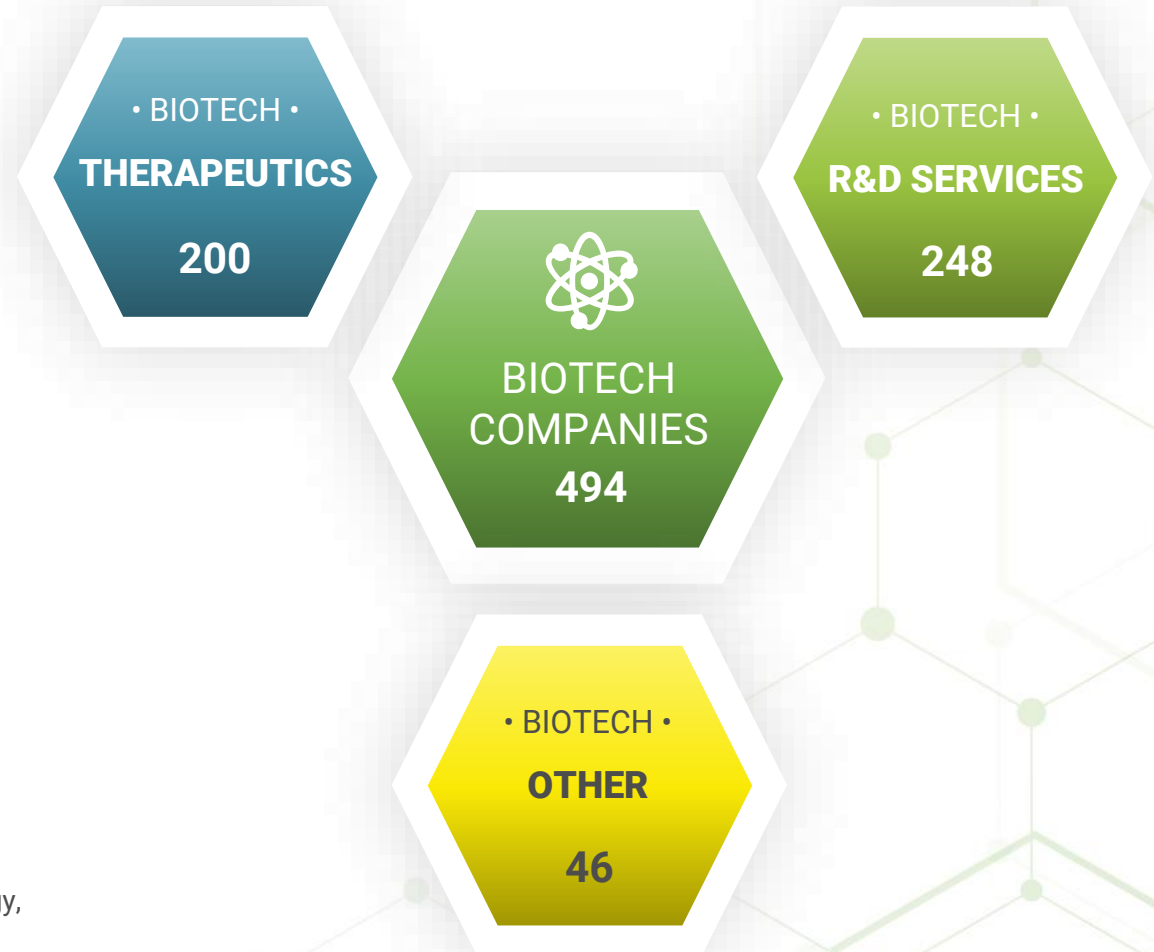
For the definition of categories please visit www.biotechgate.com/web/cms/index.php/covered_industry_sectors.html. Biotech Companies include the following categories: Biotechnology – Therapeutics and Diagnostics; Biotechnology – R&D; Biotechnology – Other. Percentage value is expressed as % of total number of companies. Information displayed may alter as new information is received continuously

OVERVIEW OF BIOTECH COMPANIES

NUMBER OF COMPANIES BY SECTOR

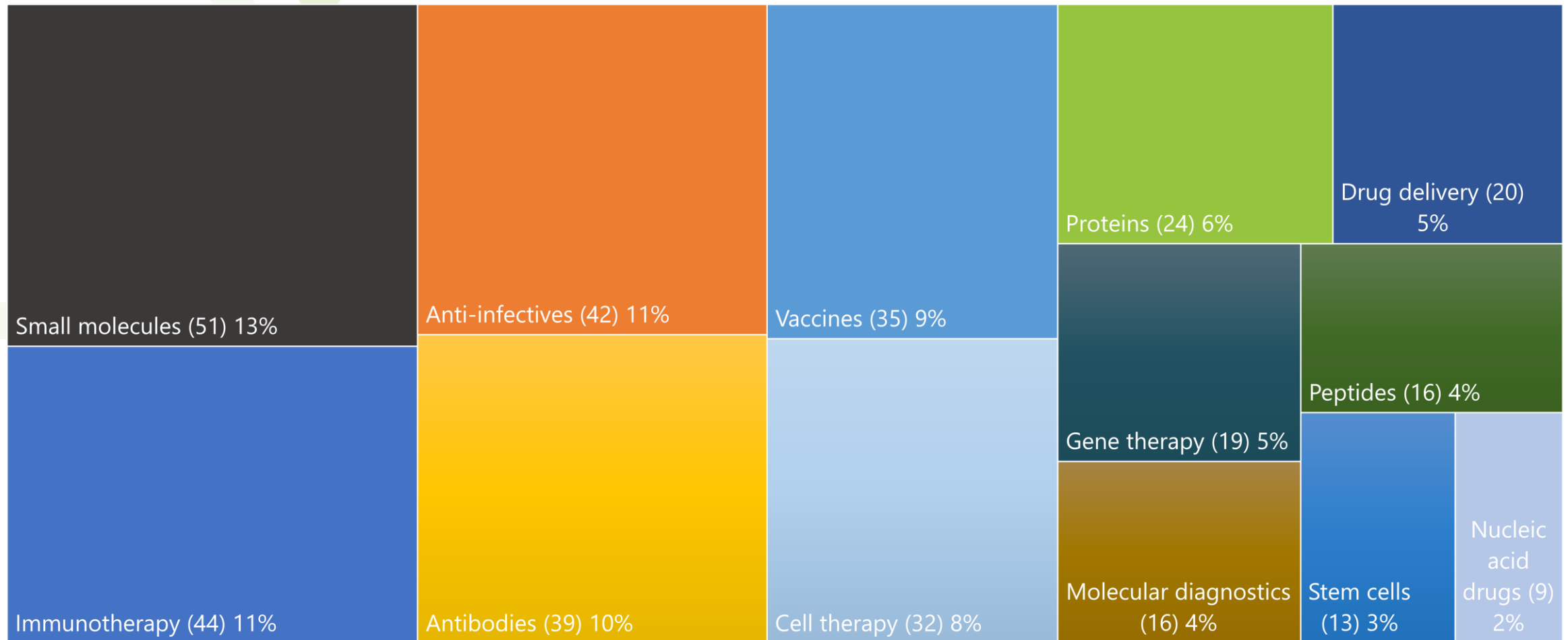


* "Biotech Other" companies are agrobio, cosmetic, environmental, food technology, industrial biotechnology, nutraceutical, and veterinary companies.



BIOTECH – THERAPEUTICS COMPANIES BY KEY ACTIVITIES

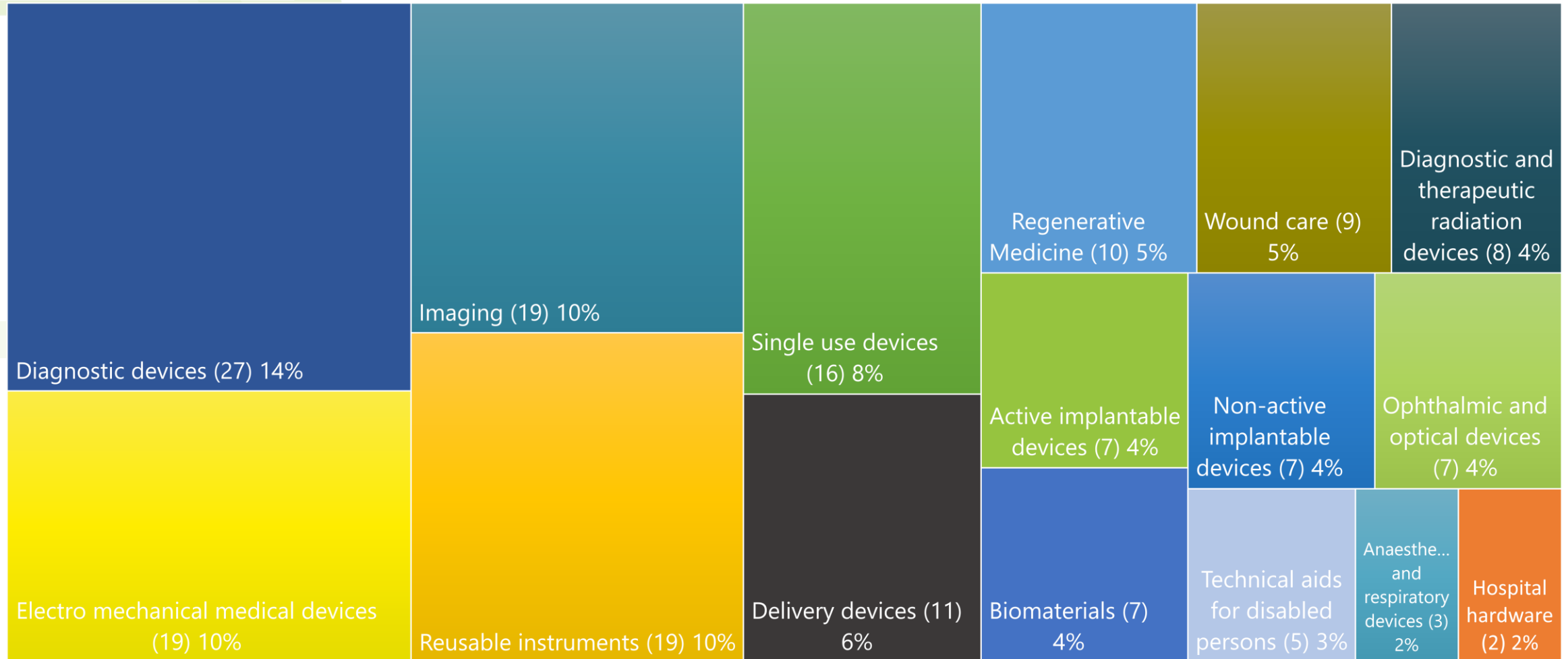
AS PERCENTAGE OF TOTAL NUMBER OF BIOTECH - THERAPEUTICS COMPANIES



For 200 Biotech Therapeutics companies there were 391 subsectors (key activity areas) assigned (one biotech company can be active in multiple areas). The graph displays Biotech – Therapeutics and Diagnostics subsectors as the percentage of the total number of Biotech – Therapeutics and Diagnostics subsectors with exclusion of the category Others and categories with percentages lower than 2%. The company subsectors are regarded as the key activities of a company. For the definition of subsectors please visit www.biotechgate.com/web/cms/index.php/covered_industry_sectors.html. Information displayed may alter as new information is received continuously.

MEDICAL TECHNOLOGY COMPANIES BY KEY ACTIVITIES

AS PERCENTAGE OF TOTAL NUMBER OF MEDICAL TECHNOLOGY COMPANIES

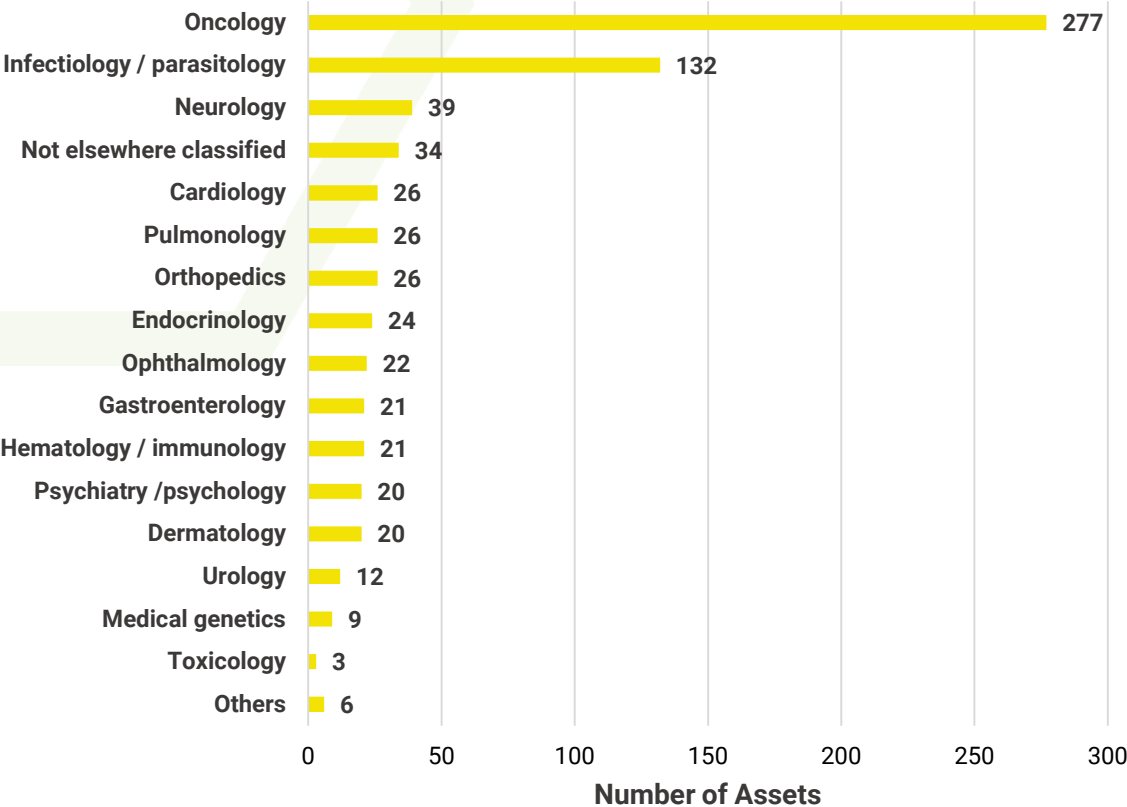


For 117 Medical Technology companies there were 194 subsectors (key activity areas) assigned (one biotech company can be active in multiple areas). The graph displays Medical Technology subsectors as the percentage of the total number of Medical Technology subsectors with exclusion of the category Others and categories with percentages lower than 2%. The company subsectors are regarded as the key activities of a company. For the definition of subsectors please visit www.biotechgate.com/web/cms/index.php/covered_industry_sectors.html. Information displayed may alter as new information is received continuously.

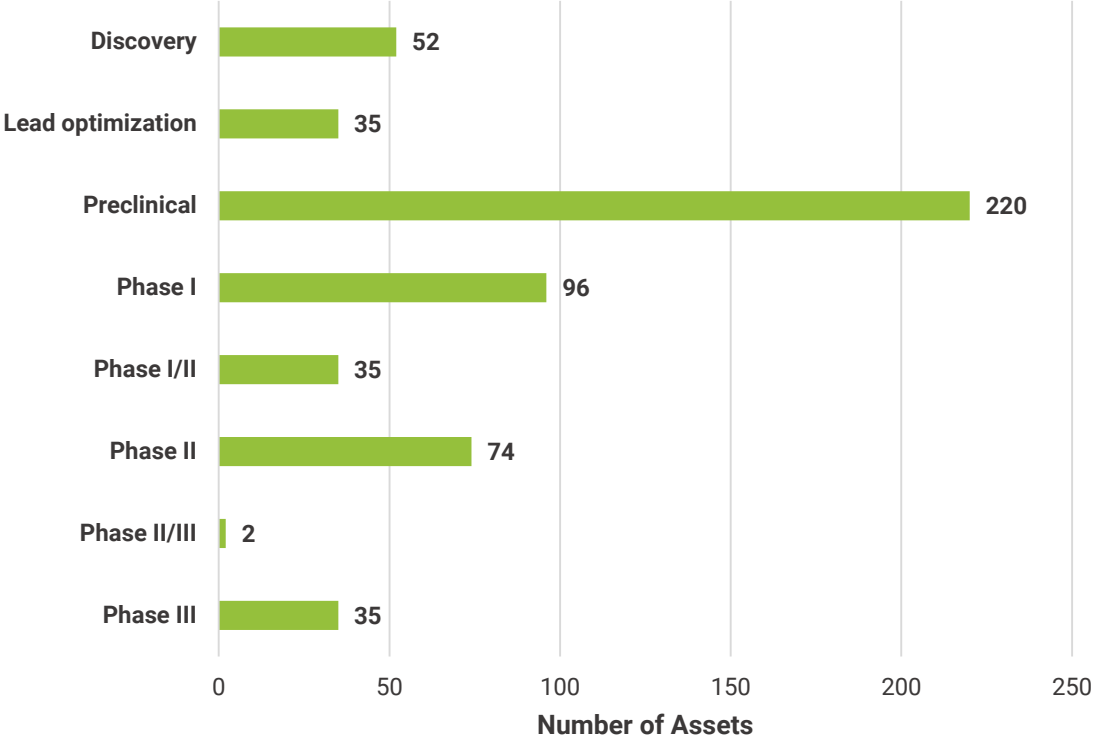
BIOTECH ASSETS IN CLINICAL DEVELOPMENT

BY INDICATION AND DEVELOPMENT PHASE

BREAKDOWN BY INDICATION



BREAKDOWN BY DEVELOPMENT PHASE

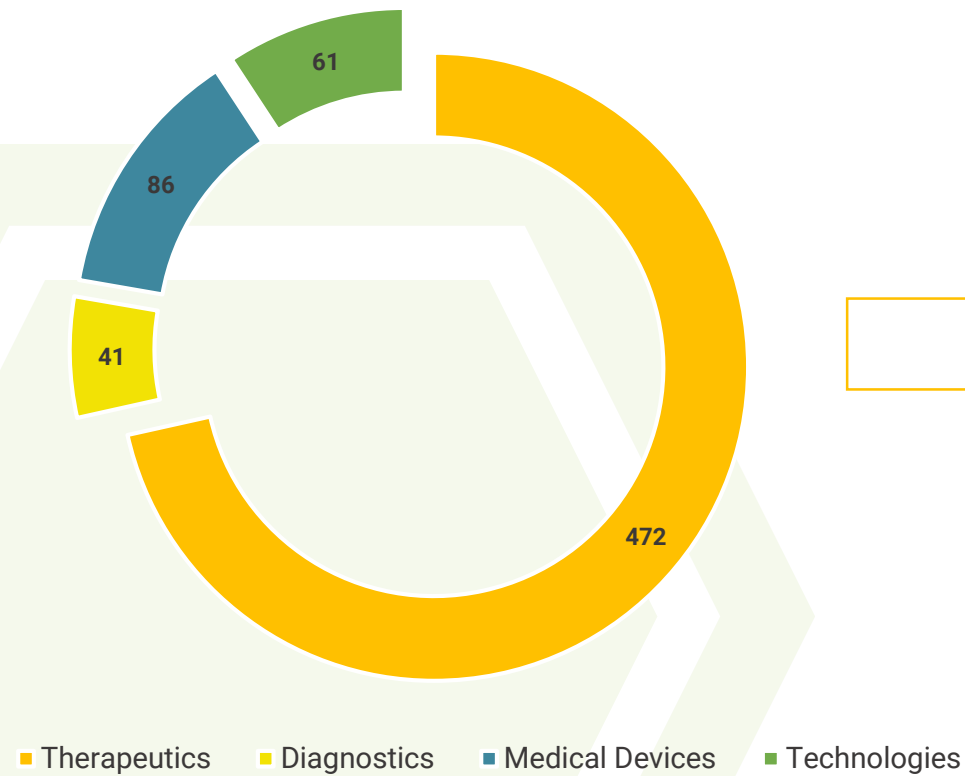


Both graphs contain the number of assets of Biotech – Therapeutics and Diagnostics companies (excl. of Pharma or Biotech – Others or Biotech R&D Services companies). Information displayed in the chart may alter as new information is received continuously

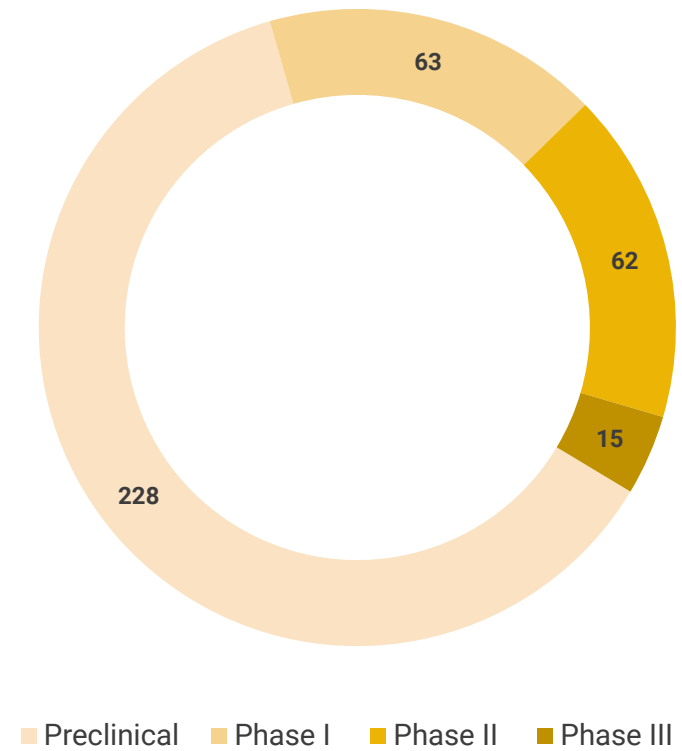
ASSETS AVAILABLE FOR OUT-LICENSING

NUMBER OF ASSETS

BY ASSET CLASS



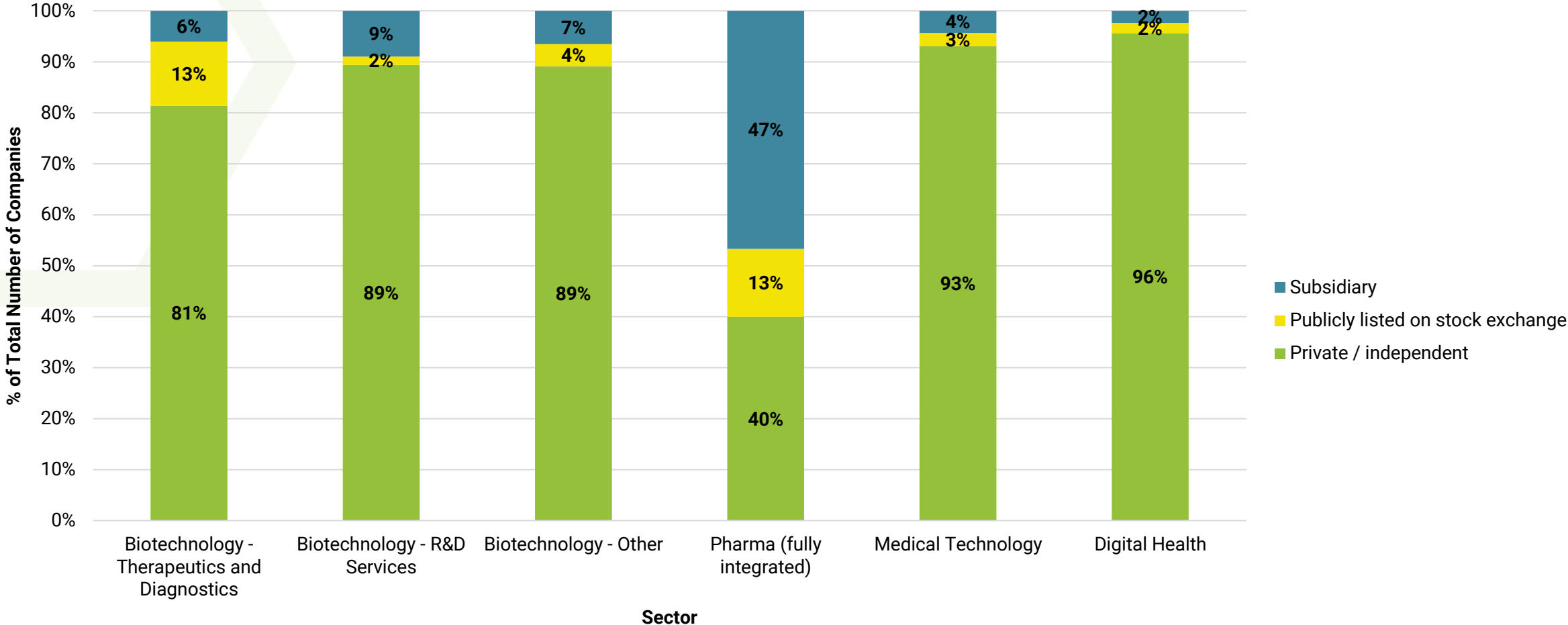
THERAPEUTICS IN DEVELOPMENT BY DEVELOPMENT PHASE



The graph titled Therapeutics in Development by Development Phase displays a subset of the asset class Therapeutics. Products in Discovery and Lead Optimization Phase are merged into Preclinical; Development Phase I/II trials are merged into Phase II and Phase II/III trials are merged into Phase III category.

OVERVIEW OF OWNERSHIP

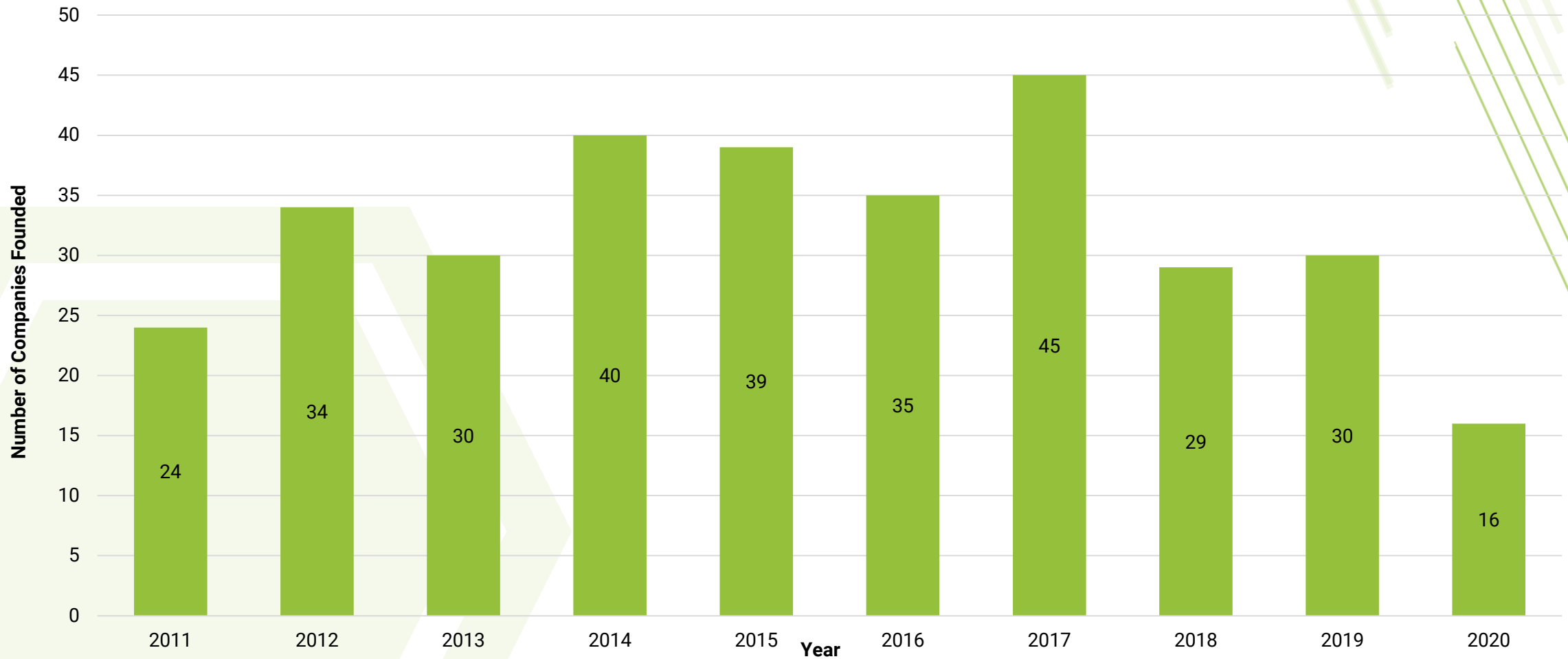
PERCENTAGE OF TOTAL NUMBER OF COMPANIES BY OWNERSHIP AND SECTOR



For the definition of categories please visit www.biotechgate.com/web/cms/index.php/covered_industry_sectors.html. Biotech T&D stands for Biotech – Therapeutics and Diagnostics. Percentage value is expressed as % of total number of companies in the sector. Information displayed may alter as new information is received continuously.

COMPANY FOUNDATION TIMELINE

NUMBER OF LIFE SCIENCE COMPANIES FOUNDED BY YEAR | 2011-2020

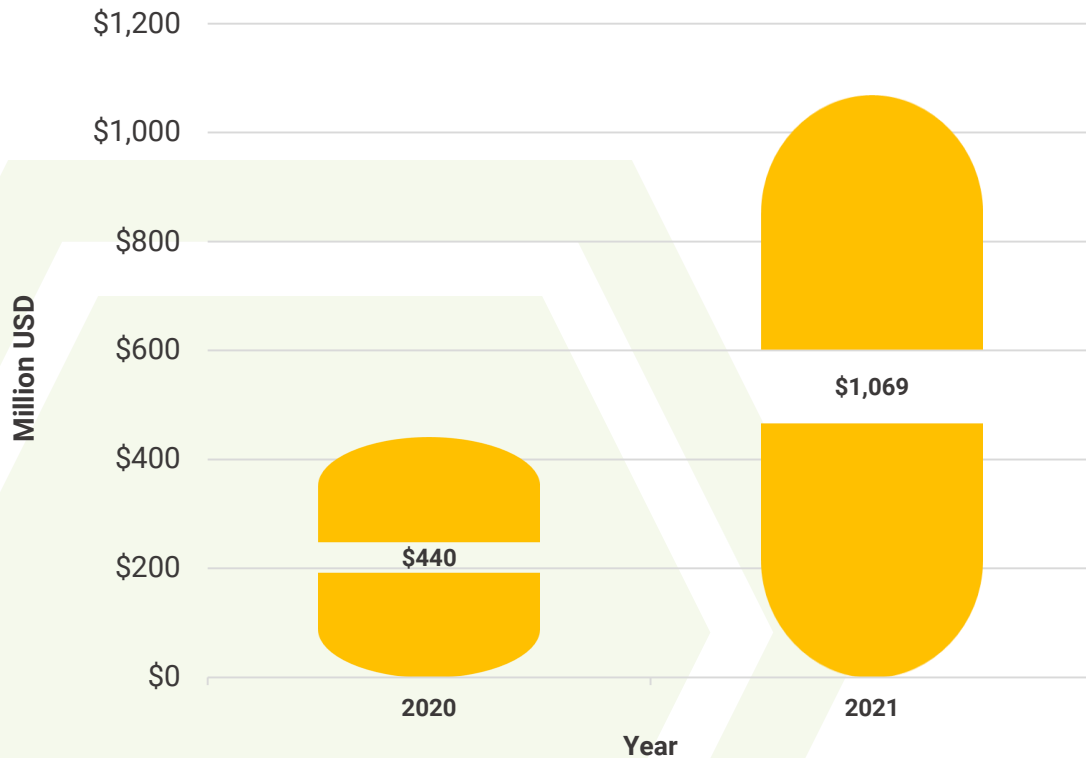


The graph contains the number of privately owned or publicly listed (no subsidiaries) life science companies founded by year including Biotech – Therapeutics and Diagnostics, Biotech – R&D Services, Biotech – Others, Pharma, Medical Technology and Digital Health companies. **Companies founded in 2021 were excluded** since newly founded companies often remain under the radar until their first financing round. Information displayed in the chart may alter as new information is received continuously.

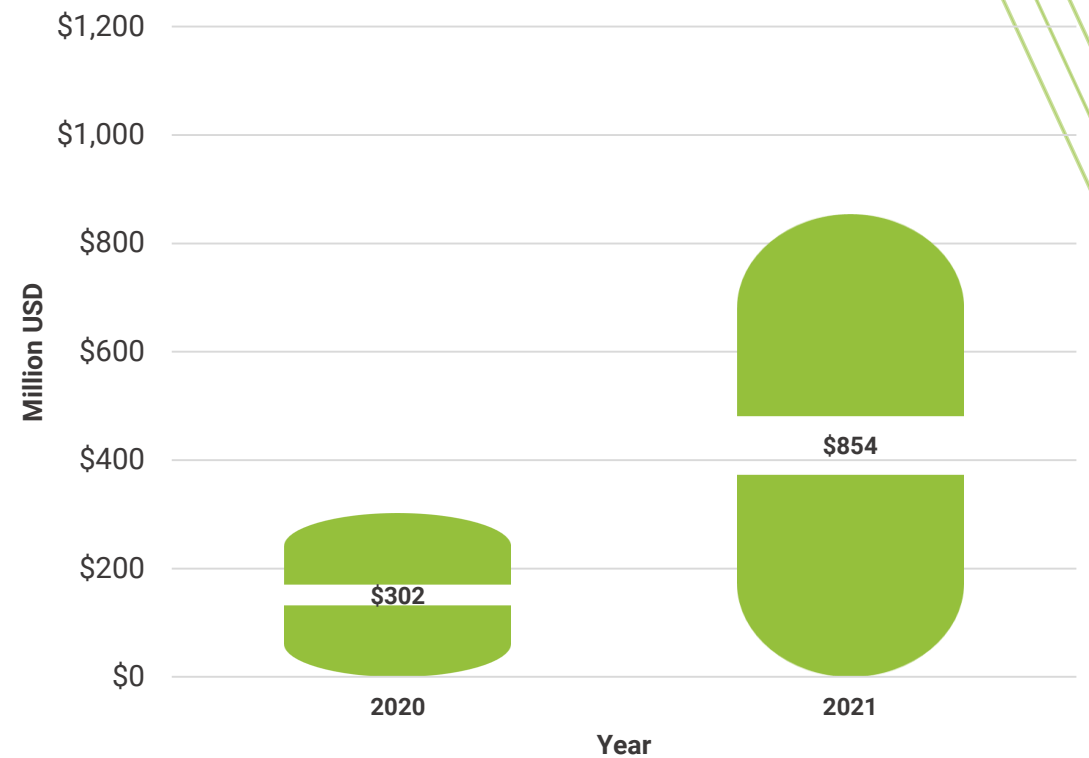
VENTURE FINANCING OF LIFE SCIENCE COMPANIES

PRIVATE EQUITY ROUNDS | 2020-2021

LIFE SCIENCE COMPANIES



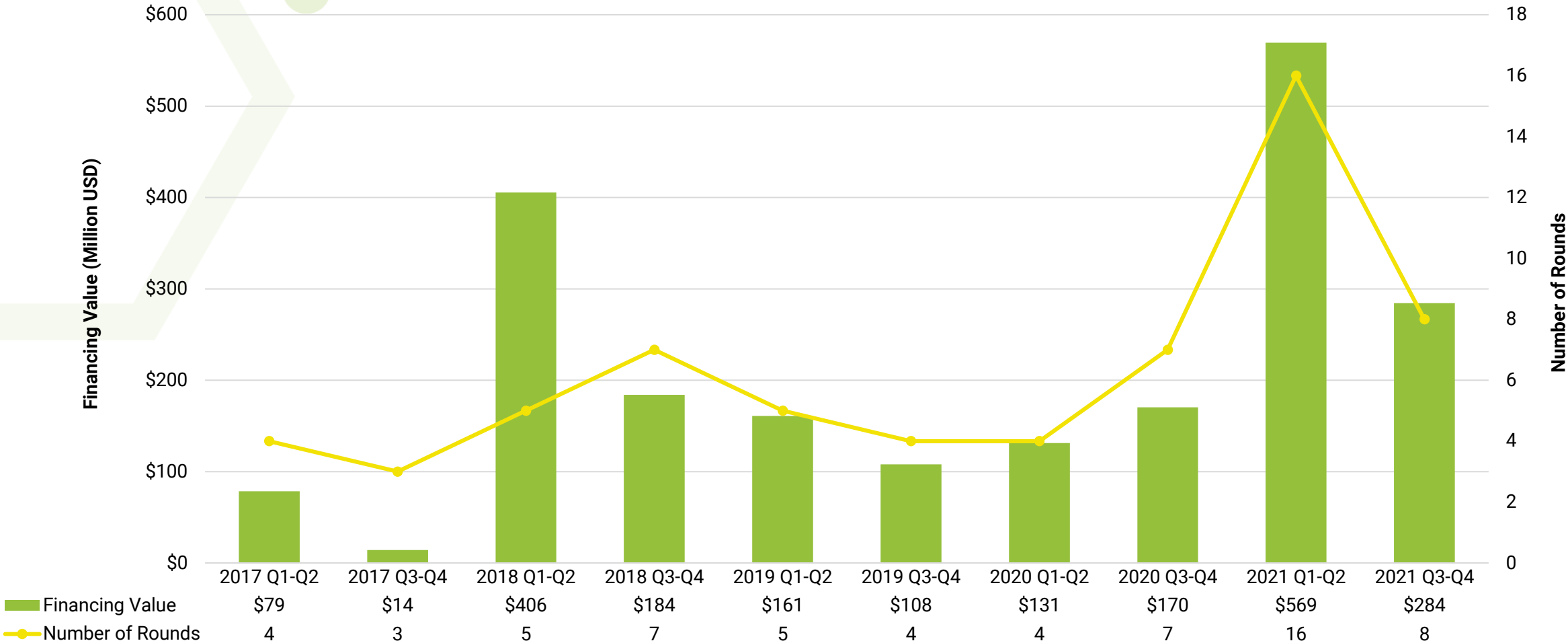
BIOTECH COMPANIES



Life Science companies include Biotech – Therapeutics and Diagnostics, Biotech – R&D Services, Biotech – Others, Pharma, Medical Technology and Digital Health companies. Biotech companies are a subset of Life Science companies and include: Biotech – Therapeutics and Diagnostics, Biotech – R&D Services, Biotech – Others. Financing data only includes private equity rounds (excl. private placements in public companies). Data may alter as new information is continuously received and/or new tranches to existing financing rounds are added.

BIOTECH VENTURE FINANCING

PRIVATE EQUITY ROUNDS – 5-YEAR REPORT



Biotech companies are a subset of Life Science companies and include: Biotech - Therapeutics and Diagnostics, Biotech - R&D Services, Biotech - Others. Financing data only includes private equity rounds (excl. private placements in public companies) of biotech companies (incl. therapeutic and diagnostic, R&D services and others). Data may alter as new information is continuously received and/or new tranches to existing financing rounds are added.

MAJOR BIOTECH VENTURE FINANCING ROUNDS (2021)

TOP 5 PRIVATE EQUITY FINANCING ROUNDS | 2021

Company	Sector	Type of Round	USD M
Cellular Biomedicine Group Inc.	Biotech – Therapeutics	Series A	\$120
Arcellx Inc.	Biotech – Therapeutics	Series C	\$115
Sirnaomics Ltd	Biotech - Therapeutics	Series E	\$105
Personal Genome Diagnostics Inc.	Biotech – R & D Services	Series C	\$103
Delfi Diagnostics	Biotech – R & D Services	Series A	\$100

The table shows the five biggest private equity financing rounds (excl. IPOs, research grants, loans) of private and independent biotech companies in 2021, including Biotech - Therapeutics and Diagnostics, Biotech - R&D Services, Biotech – Others. Sector Biotech – Therapeutics in the table equals to Biotechnology –Therapeutics and Diagnostics. Information displayed in the table may alter as new information is continuously received and/or new tranches to existing financing rounds are added.

ABOUT BIOTECHGATE



Biotechgate is a **business development database** that contains over 63,000 high quality profiles of life science companies which include company description, contact information, product pipeline information, financing rounds and management details. Profiles are regularly updated by the companies themselves, as well as by an experienced database team, to ensure the accuracy and relevance of the data. Biotechgate contains also a database of 23,000 **licensing deals** and a **clinical trial database** containing over 790,000 records with registries from around the world.

To register for a free trial access or to learn more about the different subscription options, please visit www.biotechgate.com.

BIOTECHGATE DIGITAL PARTNERING

Virtual business development & licensing event

Aug 29 – Sep 2, 2022



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