

Aptamers Market Size, Share & Trends Analysis Report By Type (Nucleic Acid, Peptide), By Application (Diagnostics, Therapeutics, Research & Developments), By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Aptamers Market Growth & Trends

The global aptamers market size is expected to reach USD 10.9 billion by 2030, according to a new report by Grand View Research Inc. The market is expected to expand at a CAGR of 23.5% from 2022 to 2030. The growth of the market is attributed to the strong presence of product pipelines and their expected launch during the forecast period. Some of the products in the pipeline are E10030 (Fovista), ARC1905 (Zimura) by IVERIC Bio, Inc., AGRO100 by Antisoma Research Ltd, NOX-A12 (olaptased pegol) & NOX-E36 (emapticap pegol) by NOXXON Pharma, and NU172 by ARCA Biopharma, Inc. AGRO100 completed the phase 1 clinical trial for multiple oncology indications such as non-small cell lung cancer, solid tumors, and renal cancer.

In addition, initiatives undertaken by regulatory agencies such as the U.S. FDA, Health Canada, EMA, COFEPRIS, MHRA, and CDSCO to support the research and development in the field of aptamers are projected to fuel market growth. For instance, in March 2020, IVERIC Bio, Inc. received Fast Track designation from the U.S. FDA for Zimura for the treatment of patients with GA secondary to age-related macular degeneration (AMD). Zimura is a chemically synthesized pegylated RNA aptamer, administered by intravitreal injection. It acts by inhibiting complement factor C5 which is responsible for the development of AMD.

Companies are studying aptamers for applications such as western blotting, ELISA, therapeutics, and flow cytometry. Custom aptamer selection is considered to be an important service offered by existing aptamer players to life sciences companies. Thrombin aptamers, cocaine aptamers, and theophylline aptamers are some of the most frequently used customized aptamers for research and development activities. Thus, the surge in numbers of biotech and pharma companies working on research related to aptamers and related technologies has opened up new avenues for the growth of this market.

Moreover, there are a number of strategic initiatives undertaken by key players such as mergers & acquisitions, with an aim to expand their current aptamer product portfolio. For instance, in May 2022, Epicore Biosystems acquired Eccrine Systems' intellectual property and assets. This acquisition boosts Epicore's wearable microfluidic solutions with additional aptamer-based sweat sensor technology from the Eccrine Systems and the University of Cincinnati to its aptamer product portfolio and strengthens the company's position in the market. This aptamers-based sensor has been demonstrated in stress, pain, and other healthcare management applications.

Aptamers Market Report Highlights

The nucleic acid aptamers segment dominated the market in 2021. The segment is set to grow at a rapid pace into areas such as therapeutics, diagnostics, research and development consumables, and biomarker discovery

The research and development segment dominated the market in 2021 due to the growing interest of companies in aptamers; moreover, the rising awareness level coupled with favorable government initiatives are expected to stimulate the market growth of this applications segment during the study period

The diagnostics segment is expected to be the fastest-growing segment during the forecast period due to the rising demand for aptamer-based diagnostic kits for the early diagnosis of diseases. For instance, in July 2021, SomaLogic and the CM Life Sciences announced the supply of 7,000-plex SomaScan Assay kits & SomaScan data to Beth Israel Deaconess Medical Center (BIDMC) for proteomics research

North America dominated the market in 2021 due to the presence of key biopharmaceutical companies such as SomaLogic, IVERIC Bio, Inc., Aptagen

LLC, Base Pair Biotechnologies, and their strategic initiatives for the development of new aptamers

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation and Scope
 - 1.1.1 Segment scope
 - 1.1.2 Regional scope
 - 1.1.3 Estimates and forecast timeline
- 1.2 Research Methodology
- 1.3 Information Procurement
 - 1.3.1 Purchased database:
 - 1.3.2 GVR's internal database
 - 1.3.3 Secondary sources
 - 1.3.4 Primary research
 - 1.3.5 Details of primary research
- 1.4 Information or Data Analysis
 - 1.4.1 Data analysis models
- 1.5 Market Formulation and Validation
- 1.6 Model Details
 - 1.6.1 Commodity Flow Analysis
 - 1.6.1.1 Approach: Commodity Flow Approach
- 1.7 Research Assumptions
- 1.8 List of Secondary Sources
- 1.9 List of Abbreviations
- 1.10 Objectives
 - 1.10.1 Objective 1
 - 1.10.2 Objective 2
 - 1.10.3 Objective 3
 - 1.10.4 Objective 4

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Outlook

CHAPTER 3 APTAMERS MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1 Market Variable Analysis
- 3.2 Penetration and Growth Prospect Mapping
- 3.3 Driver Impact Analysis

- 3.3.1 High advantage of aptamers compared to antibodies
- 3.3.2 Advancements in the field of aptamer development technologies
- 3.3.3 Growing interest of many companies to invest in aptamers market
- 3.3.4 Promising pipeline thearapeutics
- 3.4 Market Restraint Analysis
 - 3.4.1 Rising number of setbacks of aptamer therapeutics in late stage clinical studies
 - 3.4.2 Low awareness level and incomplete regulatory policies slow down the market growth
- 3.5 SWOT Analysis; By factor (Political & Legal, Economic and Technological)
- 3.6 Porter's Five Forces Analysis
- 3.7 Regulatory Framework

CHAPTER 4 APTAMERS MARKET: SEGMENT ANALYSIS, BY TYPE, 2018 - 2030 (USD MILLION)

- 4.1 Aptamers Market: Type Movement Analysis
- 4.2 Nucleic Acid
 - 4.2.1 Nucleic Acid market estimates and forecast, 2018-2030
- 4.3 Peptide
 - 4.3.1 Peptide market estimates and forecast, 2018-2030

CHAPTER 5 APTAMERS MARKET: SEGMENT ANALYSIS, BY APPLICATION, 2018 - 2030 (USD MILLION)

- 5.1 Aptamers Market: Application Movement Analysis
- 5.2 Diagnostics
 - 5.2.1 Diagnostics market estimates and forecast, 2018-2030
- 5.3 Therapeutics
 - 5.3.1 Therapeutics market estimates and forecast, 2018-2030
- 5.4 Research and development
 - 5.4.1 Research and development market estimates and forecast, 2018-2030
- 5.5 Others
 - 5.5.1 Others market estimates and forecast, 2018-2030

CHAPTER 6 APTAMERS MARKET: SEGMENT ANALYSIS, BY REGION, 2018 - 2030 (USD MILLION)

- 6.1 Regional Market Share Analysis, 2021 & 2030
- 6.2 Regional Market Snapshot

6.3 Market Size, Forecasts, and Revenue & Trend Analysis, 2021 to 2030

6.3.1 North America

6.3.1.1 North America Aptamers market estimates and forecast, 2018 - 2030 (USD Million)

6.3.1.2 U.S.

6.3.1.2.1 U.S. Aptamers market, 2018 - 2030 (USD Million)

6.3.1.3 Canada

6.3.1.3.1 Canada Aptamers market, 2018 - 2030 (USD Million)

6.3.1.4 Mexico

6.3.1.4.1 Mexico Aptamers market, 2018 - 2030 (USD Million)

6.3.2 Europe

6.3.2.1 Europe Aptamers market, 2018 - 2030 (USD Million)

6.3.2.2 U.K.

6.3.2.2.1 U.K. Aptamers market, 2018 - 2030 (USD Million)

6.3.2.3 Germany

6.3.2.3.1 Germany Aptamers market, 2018 - 2030 (USD Million)

6.3.2.4 Spain

6.3.2.4.1 Spain Aptamers market, 2018 - 2030 (USD Million)

6.3.2.5 France

6.3.2.5.1 France Aptamers market, 2018 - 2030 (USD Million)

6.3.2.6 Italy

6.3.2.6.1 Italy Aptamers market, 2018 - 2030 (USD Million)

6.3.3 Asia Pacific

6.3.3.1 Asia Pacific Aptamers market, 2018 - 2030 (USD Million)

6.3.3.2 Japan

6.3.3.2.1 Japan Aptamers market, 2018 - 2030 (USD Million)

6.3.3.3 China

6.3.3.3.1 China Aptamers market, 2018 - 2030 (USD Million)

6.3.3.4 India

6.3.3.4.1 India Aptamers market, 2018 - 2030 (USD Million)

6.3.3.5 Australia

6.3.3.5.1 Australia Aptamers market, 2018 - 2030 (USD Million)

6.3.3.6 South Korea

6.3.3.6.1 South Korea Aptamers market, 2018 - 2030 (USD Million)

6.3.4 Latin America

6.3.4.1 Latin America Aptamers market, 2018 - 2030 (USD Million)

6.3.4.2 Brazil

6.3.4.2.1 Brazil Aptamers market, 2018 - 2030 (USD Million)

6.3.4.3 Mexico

6.3.4.3.1 Mexico Aptamers market, 2018 - 2030 (USD Million)

6.3.4.4 Argentina

6.3.4.4.1 Argentina Aptamers market, 2018 - 2030 (USD Million)

6.3.5 MEA

6.3.5.1 MEA Aptamers market, 2018 - 2030 (USD Million)

6.3.5.2 South Africa

6.3.5.2.1 South Africa Aptamers market, 2018 - 2030 (USD Million)

6.3.5.3 Saudi Arabia

6.3.5.3.1 Saudi Arabia Aptamers market, 2018 - 2030 (USD Million)

6.3.5.4 UAE

6.3.5.4.1 UAE Aptamers market, 2018 - 2030 (USD Million)

CHAPTER 7 APTAMERS MARKET: COMPETITIVE ANALYSIS

7.1 Major deals & strategic alliances analysis

7.1.1 New product launch

7.1.2 Mergers and acquisitions

7.1.3 Expansion

7.1.4 Partnerships

7.2 Vendor Landscape

7.2.1 List of key distributors and channel partners

7.3 Public Companies

7.3.1 Company market position analysis

7.3.2 Competitive Dashboard Analysis

7.4 Private Companies

7.4.1 List of key emerging companies/Technology disruptors/ innovators

CHAPTER 8 COMPANY PROFILES

8.1 SomaLogic

8.1.1 Company overview

8.1.2 Financial Performance

8.1.3 Product benchmarking

8.1.4 Strategic initiatives

8.2 Aptamer Group

8.2.1 Company overview

8.2.2 Financial Performance

8.2.3 Product benchmarking

8.2.4 Strategic initiatives

8.3 Aptamer Sciences, Inc.

- 8.3.1 Company overview
- 8.3.2 Financial performance
- 8.3.3 Product benchmarking
- 8.3.4 Strategic initiatives

8.4 Base Pair Biotechnologies

- 8.4.1 Company overview
- 8.4.2 Financial performance
- 8.4.3 Product benchmarking
- 8.4.4 Strategic initiatives

8.5 Noxxon Pharma

- 8.5.1 Company overview
- 8.5.2 Financial Performance
- 8.5.3 Product benchmarking
- 8.5.4 Strategic initiatives

8.6 Vivonics, Inc.

- 8.6.1 Company overview
- 8.6.2 Financial Performance
- 8.6.3 Product benchmarking
- 8.6.4 Strategic initiatives

8.7 Aptagen, LLC

- 8.7.1 Company overview
- 8.7.2 Financial Performance
- 8.7.3 Product benchmarking
- 8.7.4 Strategic initiatives

8.8 TriLink BioTechnologies

- 8.8.1 Company overview
- 8.8.2 Financial Performance
- 8.8.3 Product benchmarking
- 8.8.4 Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of abbreviations

Table 3 Key Difference between Antibody and Aptamers

Table 4 Key aptamers in different stages

Table 5 Regulatory framework

Table 6 List of key distributors

Table 7 List of key emerging companies/technology disruptors/innovators

Table 8 North America aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 9 North America aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 10 U.S. aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 11 U.S. aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 12 Canada aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 13 Canada aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 14 Europe aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 15 Europe aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 16 U.K. aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 17 U.K. aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 18 Germany aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 19 Germany aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 20 France aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 21 France aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 22 Italy aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Million)

Table 23 Italy aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 24 Spain aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 25 Spain aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 26 Asia Pacific aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 27 Asia Pacific aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 28 Japan aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 29 Japan aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 30 China aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 31 China aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 32 India aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 33 India aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 34 Australia aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 35 Australia aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 36 South Korea aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 37 South Korea aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 38 Latin America aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 39 Latin America aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 40 Brazil aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 41 Brazil aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 42 Mexico aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 43 Mexico aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 44 Argentina aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 45 Argentina aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 46 MEA aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 47 MEA aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 48 South Africa aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 49 South Africa aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 50 Saudi Arabia aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 51 Saudi Arabia aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 52 UAE aptamers market estimates and forecasts, by type, 2018 - 2030 (USD Million)

Table 53 UAE aptamers market estimates and forecasts, by application, 2018 - 2030 (USD Million)

Table 54 List of key distributors

Table 55 List of key emerging companies/technology disruptors/innovators

List Of Figures

LIST OF FIGURES

- Fig. 1 Aptamers market segmentation
- Fig. 2 Market research process
- Fig. 3 Information procurement
- Fig. 4 Primary research pattern
- Fig. 5 Market research approaches
- Fig. 6 Value chain-based sizing & forecasting
- Fig. 7 QFD modeling for market share assessment
- Fig. 8 Market formulation & validation
- Fig. 9 Commodity flow approach
- Fig. 10 Market outlook (2021) (USD million)
- Fig. 11 Penetration and growth prospect mapping
- Fig. 12 Aptamers market driver impact
- Fig. 13 Aptamers market restraint impact
- Fig. 14 SWOT analysis, by factor (political & legal economic and technological)
- Fig. 15 Porter's five forces analysis
- Fig. 16 Aptamers by type outlook: Key takeaways
- Fig. 17 Aptamers market: Type movement analysis
- Fig. 18 Nucleic acid market estimates and forecasts, 2018 - 2030
- Fig. 19 Peptide market estimates and forecasts, 2018 - 2030
- Fig. 20 Aptamers by application outlook: Key takeaways
- Fig. 21 Aptamers market: Application movement analysis
- Fig. 22 Diagnostics market estimates and forecasts, 2018 - 2030
- Fig. 23 Therapeutics market estimates and forecasts, 2018 - 2030
- Fig. 24 Research and development market estimates and forecasts, 2018 - 2030
- Fig. 25 Others market estimates and forecasts, 2018 - 2030
- Fig. 26 Regional outlook, 2021 & 2030
- Fig. 27 Regional marketplace: Key takeaways
- Fig. 28 North America
- Fig. 29 North America aptamers market, 2018 - 2030 (USD million)
- Fig. 30 U.S.
- Fig. 31 U.S. aptamers market, 2018 - 2030 (USD million)
- Fig. 32 Canada
- Fig. 33 Canada aptamers market, 2018 - 2030 (USD million)
- Fig. 34 Europe
- Fig. 35 Europe aptamers market, 2018 - 2030 (USD million)
- Fig. 36 U.K.

- Fig. 37 U.K. aptamers market, 2018 - 2030 (USD million)
- Fig. 38 Germany
- Fig. 39 Germany aptamers market, 2018 - 2030 (USD million)
- Fig. 40 Spain
- Fig. 41 Spain aptamers market, 2018 - 2030 (USD million)
- Fig. 42 France
- Fig. 43 France aptamers market, 2018 - 2030 (USD million)
- Fig. 44 Italy
- Fig. 45 Italy aptamers market, 2018 - 2030 (USD million)
- Fig. 46 Asia Pacific
- Fig. 47 Asia Pacific aptamers market, 2018 - 2030 (USD million)
- Fig. 48 Japan
- Fig. 49 Japan aptamers market, 2018 - 2030 (USD million)
- Fig. 50 China
- Fig. 51 China aptamers market, 2018 - 2030 (USD million)
- Fig. 52 India
- Fig. 53 India aptamers market, 2018 - 2030 (USD million)
- Fig. 54 Australia
- Fig. 55 Australia aptamers market, 2018 - 2030 (USD million)
- Fig. 56 South Korea
- Fig. 57 South Korea aptamers market, 2018 - 2030 (USD million)
- Fig. 58 Latin America
- Fig. 59 Latin America aptamers market, 2018 - 2030 (USD million)
- Fig. 60 Brazil
- Fig. 61 Brazil aptamers market, 2018 - 2030 (USD million)
- Fig. 62 Mexico
- Fig. 63 Mexico aptamers market, 2018 - 2030 (USD million)
- Fig. 64 Argentina
- Fig. 65 Argentina aptamers market, 2018 - 2030 (USD million)
- Fig. 66 Middle East & Africa
- Fig. 67 MEA aptamers market, 2018 - 2030 (USD million)
- Fig. 68 South Africa
- Fig. 69 South Africa aptamers market, 2018 - 2030 (USD million)
- Fig. 70 Saudi Arabia
- Fig. 71 Saudi Arabia aptamers market, 2018 - 2030 (USD million)
- Fig. 72 UAE
- Fig. 73 UAE aptamers market, 2018 - 2030 (USD million)
- Fig. 74 Company market position analysis (Revenue US\$ mn)
- Fig. 75 Company market position analysis (Profit Margin)

Fig. 76 Competitive dashboard analysis

Fig. 77 Regional Network Map

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