

MicroRNA (miRNA) Market Size, Share & Trends Analysis Report By Research Tools, By Application (Cancer, Neurological Disease, Immunological Disorder, Infectious Diseases) By End-use, And Segment Forecasts, 2018 - 2025

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Abstracts

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The global microRNA (abbreviated miRNA) market size is expected to reach USD 626.27 million by 2025, according to a new report by Grand View Research, Inc., posting a CAGR of 18.6% during the forecast period. A significant role of microRNAs in regulating gene expression. Their rapid adoption in development of diagnostic & prognostic tools for various cancer types is anticipated to provide a fillip to the market.

Recent innovations in miRNA applications such as their use as potential biomarkers in advanced diagnostics have accelerated new product development. Based on existing technologies used in gene analysis such as microarrays, qRT-PCR, and sequencing, new products are being developed for better usage of miRNA. These are designed to overcome challenges faced when working with miRNA.

Investments in development of therapeutics & diagnostic tests based on miRNAs have increased tremendously over past few years. Regulus Therapeutics, Rosetta Genomics, Alynham Pharmaceuticals, miRagen Therapeutics, and Mirna Therapeutics are some major companies involved in the development of RNA-based therapeutics. These players are involved in strategic partnerships to enhance their capabilities. For instance, in February 2018, STA Pharmaceutical Co., Ltd., a manufacturer of technology platform for small molecule pharmaceutical development signed an agreement with Regulus Therapeutics to provide its manufacturing facility to the company.

Academic & government research organizations are key revenue contributors as large number of microRNA research is carried out in these institutes. However, rising interest of biotech & pharmaceutical companies in miRNAs as biomarkers, especially in cancer screening, is providing a significant push to the market. MiRNA regulating gene expressions in Alzheimer's diseases, Autism Spectrum Disorders (ASD), Schizophrenia, and Parkinson's diseases have been identified. Soaring need for easy diagnosis of these diseases is projected to further increase demand for miRNA research tools.

Instruments used in miRNA analysis, especially those based on advanced technology, are expensive. However, processes performed are available at reasonable prices through service providers. MiRNA analysis is a part of genomic analysis, thereby many service providers for the genomics market have extended their service offering to this market as well. Novel approaches for handling targeted delivery of miRNAs are being developed. Nanoparticle-based delivery and miRNA conjugation with other small molecules are few of the potential approaches being studied. Focus on development of approaches to overcome challenges in the delivery of miRNA therapeutics is estimated to propel the market over the forecast period.

Further Key Findings from the Report Suggest:

Growing competition among miRNA-based therapeutic companies to develop tests & biomarkers for clinical use is likely to boost the demand for miRNA detection services

Rapid high-quality results coupled with declining sequencing prices are poised to drive adoption of NGS services for miRNA functional studies.

North America dominated the microRNA market owing to presence of large scale genetic research programs being conducted by universities in the U.S. and Canada. MiRNA profiling studies in these regions are supported by international public functional genomic data repositories such as Gene Expression Omnibus

Asia Pacific is projected to witness phenomenal CAGR owing to rapid progress in precision medicine & genomics. Owing to the immense potential in APAC, international players are adopting M&A strategies to consolidate their position in the region

The market is moderately consolidated and competitive in nature due to presence of several multinational players

Some key companies present in the market are ThermoFisher Scientific (Life Technologies); Agilent Technologies; Merck KGaA; QIAGEN (Exiqon); and NanoString Technologies; Inc. The prominence of these players can be attributed to their well-established technical capabilities in other fields of biotechnology.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 RESEARCH METHODOLOGY

2.1 Information procurement

2.1.1 Purchased database:

2.1.2 GVR's Internal Database

2.2 Information or Data Analysis

2.3 Market Formulation & Validation

2.4 Approaches for Market Estimation

2.4.1 Approach 1: Commodity Flow & Bottom Up Approach

2.4.2 Approach 2: Top Down and Parent Market Analysis

CHAPTER 3 MICRORNA MARKET VARIABLES, TRENDS& SCOPE

3.1 Market Segmentation & Scope

3.1.1 Market driver analysis

3.1.1.1 Recent innovations in applications of miRNAs

3.1.1.1.1 Increased adoption for use as a biomarker

3.1.1.1.2 Therapeutic applications

3.1.1.2 High investments in miRNA and rising R&D initiatives for development of new diagnostic tests & therapeutics

3.1.1.3 Success of miRNA in clinical trials

3.1.1.4 Technological advancements to support nucleic acid studies

3.1.1.5 Exponentially declining cost of sequencing

3.1.2 Market restraint analysis

3.1.2.1 High cost associated with microRNA kits and other products

3.1.2.2 Challenges in handling RNA & in-house development of assays for microRNA detection

3.1.2.3 Poor reproducibility of research and specificity of products

3.1.2.4 Limited life science research infrastructure in emerging markets

3.1.2.5 Need of skilled personnel

3.2 Penetration & Growth Prospect Mapping for Application, 2017

3.3 Patent Review/ New Developments

3.4 MicroRNA-SWOT Analysis, By Factor (Political & Legal, Economic And Technological)

3.5 Industry Analysis – Porter's

CHAPTER 4 MICRORNA MARKET: PRODUCTS & SERVICES ESTIMATES & TREND ANALYSIS

4.1 Global MicroRNA Market: Products & Services Movement Analysis, 2017 & 2025

4.2 Services

4.2.1 Global services market, 2014 - 2025 (USD Million)

4.2.2 Sample collection

4.2.2.1 Global miRNA sample collection market, 2014 - 2025 (USD Million)

4.2.2.2 Whole blood

4.2.2.2.1 Global whole blood collection for miRNA market, 2014 - 2025 (USD Million)

4.2.2.3 Serum

4.2.2.3.1 Global serum collection for miRNA market, 2014 - 2025 (USD Million)

4.2.2.4 Plasma

4.2.2.4.1 Global plasma collection for miRNA market, 2014 - 2025 (USD Million)

4.2.3 miRNA cDNA Synthesis

4.2.3.1 Global miRNA cDNA synthesis market, 2014 - 2025 (USD Million)

4.2.4 miRNA Profiling & Purification

4.2.4.1 Global miRNA profiling & purification market, 2014 - 2025 (USD Million)

4.2.5 Detection

4.2.5.1 Global miRNA detection market, 2014 - 2025 (USD Million)

4.2.6 miRNA functional studies

4.2.6.1 Global miRNA functional studies market, 2014 - 2025 (USD Million)

4.2.6.2 Next Generation Sequencing (NGS)

4.2.6.2.1 Global miRNA NGS market, 2014 - 2025 (USD Million)

4.2.6.3 Microarray

4.2.6.3.1 Global miRNA microarray market, 2014 - 2025 (USD Million)

4.2.6.4 Real Time – PCR (RT-PCR)

4.2.6.4.1 Global miRNA detection using RT-PCR services market, 2014 - 2025 (USD Million)

4.2.6.5 Others

4.2.6.5.1 Global miRNA detection using other functional analysis services market, 2014 - 2025 (USD Million)

4.3 Products

4.3.1 Global miRNA products market, 2014 - 2025 (USD Million)

4.3.2 Instruments

4.3.2.1 Global miRNA instruments market, 2014 - 2025 (USD Million)

4.3.3 Consumables

4.3.3.1 Global miRNA consumables market, 2014 - 2025 (USD Million)

4.3.3.2 Isolation & purification

4.3.3.2.1 Global miRNA isolation & purification consumables market, 2014 - 2025 (USD Million)

4.3.3.3 Quantification & detection

4.3.3.3.1 Global miRNA quantification & detection consumables market, 2014 - 2025 (USD Million)

4.3.3.4 Functional analysis

4.3.3.4.1 Global miRNA functional analysis consumables market, 2014 - 2025 (USD Million)

4.3.3.5 Other consumables

4.3.3.5.1 Global miRNA other consumables market, 2014 - 2025 (USD Million)

CHAPTER 5 MICRORNA MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

5.1 Global Micro RNA Market: Application Movement Analysis, 2017 & 2025

5.2 Cancer

5.2.1 Global miRNA cancer market, 2014 - 2025 (USD Million)

5.3 Infectious Diseases

5.3.1 Global miRNA infectious diseases market, 2014 - 2025 (USD Million)

5.4 Immunological Disorder

5.4.1 Global miRNA immunological disorder market, 2014 - 2025 (USD Million)

5.5 Cardiovascular Disease

5.5.1 Global miRNA cardiovascular disease market, 2014 - 2025 (USD Million)

5.6 Neurological Disease

5.6.1 Global miRNA neurological disease market, 2014 - 2025 (USD Million)

5.7 Others

5.7.1 Global miRNA other applications market, 2014 - 2025 (USD Million)

CHAPTER 6 MICRORNA MARKET: END-USE ESTIMATES & TREND ANALYSIS

6.1 Global MicroRNA Market: End-use Movement Analysis, 2017 & 2025

6.2 Biotechnology & Pharmaceutical Companies

6.2.1 Global biotechnology & pharmaceutical companies market, 2014 - 2025 (USD Million)

6.3 Academic & Government Research Institutes

6.3.1 Global academic & government research institutes market, 2014 - 2025 (USD Million)

6.4 Other end-users

6.4.1 Global other end-use market, 2014 - 2025 (USD Million)

CHAPTER 7 MICRORNA MARKET: REGIONAL ESTIMATES & TREND ANALYSIS, BY PRODUCT & SERVICES, APPLICATIONS, & END USER

7.1 MicroRNA Market Share By Region, 2017 & 2025

7.2 North America

7.2.1 North America microRNA market, 2014 - 2025 (USD Million)

7.2.2 U.S.

7.2.2.1 U.S. microRNA market, by products & services 2014 - 2025 (USD Million)

7.2.2.2 U.S. microRNA market, by application 2014 - 2025 (USD Million)

7.2.2.3 U.S. microRNA market, by end-user 2014 - 2025 (USD Million)

7.2.3 Canada

7.2.3.1 Canada microRNA market, by products & services 2014 - 2025 (USD Million)

7.2.3.2 Canada microRNA market, by application 2014 - 2025 (USD Million)

7.2.3.3 Canada microRNA market, by end-user 2014 - 2025 (USD Million)

7.3 Europe

7.3.1 Europe microRNA market, 2014 - 2025 (USD Million)

7.3.2 Germany

7.3.2.1 Germany microRNA market, by products & services 2014 - 2025 (USD Million)

7.3.2.2 Germany microRNA market, by application 2014 - 2025 (USD Million)

7.3.2.3 Germany microRNA market, by end-user 2014 - 2025 (USD Million)

7.3.3 U.K.

7.3.3.1 U.K. microRNA market, by products & services 2014 - 2025 (USD Million)

7.3.3.2 U.K. microRNA market, by application 2014 - 2025 (USD Million)

7.3.3.3 U.K. microRNA market, by end-user 2014 - 2025 (USD Million)

7.4 Asia Pacific

7.4.1 Asia Pacific microRNA market, 2014 - 2025 (USD Million)

7.4.2 Japan

7.4.2.1 Japan microRNA market, by products & services 2014 - 2025 (USD Million)

7.4.2.2 Japan microRNA market, by application 2014 - 2025 (USD Million)

7.4.2.3 Japan microRNA market, by end-user 2014 - 2025 (USD Million)

7.4.3 China

7.4.3.1 China microRNA market, by products & services 2014 - 2025 (USD Million)

7.4.3.2 China microRNA market, by application 2014 - 2025 (USD Million)

7.4.3.3 China microRNA market, by end-user 2014 - 2025 (USD Million)

7.5 Latin America

7.5.1 Latin America microRNA market, 2014 - 2025 (USD Million)

7.5.2 Brazil

7.5.2.1 Brazil microRNA market, by products & services 2014 - 2025 (USD Million)

7.5.2.2 Brazil microRNA market, by application 2014 - 2025 (USD Million)

7.5.2.3 Brazil microRNA market, by end-user 2014 - 2025 (USD Million)

7.6 Middle East & Africa (MEA)

7.6.1 Middle East & Africa microRNA market, 2014 - 2025 (USD Million)

7.6.2 South Africa

7.6.2.1 South Africa microRNA market, by products & services 2014 - 2025 (USD Million)

7.6.2.2 South Africa microRNA market, by application 2014 - 2025 (USD Million)

7.6.2.3 South Africa microRNA market, by end-user 2014 - 2025 (USD Million)

CHAPTER 8 COMPETITIVE LANDSCAPE

8.1 Strategy Framework

8.2 Market Participation Categorization

8.3 List of Companies

8.4 Company Profiles

8.4.1 Merck KGaA

8.4.1.1 Company overview

8.4.1.1.1 Sigma-Aldrich Co. LLC

8.4.1.2 Financial performance

8.4.1.2.1 Financial performance

8.4.1.3 Product benchmarking

8.4.1.4 Strategic initiatives

8.4.2 QIAGEN

8.4.2.1 Company overview

8.4.2.1.1 Exiqon

8.4.2.2 Financial performance

8.4.2.2.1 Financial performance

8.4.2.3 Product benchmarking

8.4.2.4 Strategic initiatives

8.4.3 Dharmacon, a Horizon Discovery Group Co.

8.4.3.1 Company overview

8.4.3.2 Financial performance

8.4.3.3 Product benchmarking

8.4.4 Thermo Fisher Scientific, Inc.

8.4.4.1 Company overview

- 8.4.4.2 Financial performance
- 8.4.4.3 Product benchmarking
- 8.4.4.4 Strategic initiatives
- 8.4.5 Synlogic
 - 8.4.5.1 Company overview
 - 8.4.5.2 Financial performance
 - 8.4.5.3 Product benchmarking
 - 8.4.5.4 Strategic initiatives
- 8.4.6 GeneCopoeia, Inc.
 - 8.4.6.1 Company overview
 - 8.4.6.2 Financial performance
 - 8.4.6.3 Product benchmarking
- 8.4.7 New England Biolabs
 - 8.4.7.1 Company overview
 - 8.4.7.2 Financial performance
 - 8.4.7.3 Product benchmarking
 - 8.4.7.4 Strategic initiatives
- 8.4.8 Quantabio
 - 8.4.8.1 Company overview
 - 8.4.8.2 Financial performance
 - 8.4.8.3 Product benchmarking
 - 8.4.8.4 Strategic initiatives
- 8.4.9 NanoString Technologies, Inc.
 - 8.4.9.1 Company overview
 - 8.4.9.2 Financial performance
 - 8.4.9.3 Product benchmarking
 - 8.4.9.4 Strategic initiatives
- 8.4.10 BioGenex
 - 8.4.10.1 Company overview
 - 8.4.10.2 Financial performance
 - 8.4.10.3 Product benchmarking
 - 8.4.10.4 Strategic initiatives
- 8.4.11 SeqMatic LLC
 - 8.4.11.1 Company overview
 - 8.4.11.2 Financial performance
 - 8.4.11.3 Product benchmarking
- 8.4.12 Miltenyi Biotec
 - 8.4.12.1 Company overview
 - 8.4.12.2 Financial performance

- 8.4.12.3 Product benchmarking
- 8.4.13 Sitemic Scotland Limited
 - 8.4.13.1 Company overview
 - 8.4.13.2 Financial performance
 - 8.4.13.3 Product benchmarking
 - 8.4.13.4 Strategic initiatives
- 8.4.14 Biodynamics Laboratory, Inc.
 - 8.4.14.1 Company overview
 - 8.4.14.2 Financial performance
 - 8.4.14.3 Product benchmarking
- 8.4.15 OriGene Technologies, Inc.
 - 8.4.15.1 Company overview
 - 8.4.15.2 Financial performance
 - 8.4.15.3 Product benchmarking
 - 8.4.15.4 Strategic initiatives

List Of Tables

LIST OF TABLES

TABLE 1 Amyotrophic Lateral Sclerosis and circulating miRNAs studied through miRNA profiling approach

TABLE 2 Parkinson's disease and circulating miRNAs studied through miRNA profiling approach

TABLE 3 Developmental status of microRNA therapeutics

TABLE 4 Companies investing in RNA therapeutics

TABLE 5 Issued Patents Related to MicroRNA

TABLE 6 Therapeutics miRNA in development phase

TABLE 7 In vitro amplification technology

TABLE 8 Performance of different NGS platforms for miRNA differential expression

TABLE 9 Overview of miRNA array services

TABLE 10 Average salary by sector in USD

TABLE 11 Recent patent applications published by the USPTO (June 2017-April 2018)

TABLE 12 miRNA therapeutics in development

TABLE 13 Comparison of NGS and qPCR for miRNA studies

TABLE 14 Comparison of number of miRNAs identified using NGS & microarray platform in sample samples

TABLE 15 Mimics & inhibitors used in confirmation of miRNA gene targets

TABLE 16 List of biopharmaceutical companies developing RNA based therapeutics & vaccines

TABLE 17 Binary tree classification miRNAs for defined cancer types by Rosetta Genomics

TABLE 18 Comparison of prognosis predictor classifier performance over Support Vector Machine (SVM) with and without miRNA features

TABLE 19 List of infections medicated by miRNAs

TABLE 20 miRNAs identified with potential for prognostication post cardiac arrest

TABLE 21 miRNAs dysregulated in myocardia infraction using qPCR as detection method

TABLE 22 Alzheimer's Disease and circulating miRNAs

TABLE 23 Multiple miRNAs common in regulating pathways in cancer and neurodegenerative diseases

TABLE 24 Same miRNAs controlling distinct pathways in cancer & neurodegenerative diseases

TABLE 25 miRNAs with potential application in dermatology

TABLE 26 North America microRNA market estimates & forecasts, by products &

services, 2014 - 2025 (USD Million)

TABLE 27 North America microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 28 North America microRNA sample collection services market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 29 North America microRNA functional studies services market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 30 North America microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 31 North America microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 32 North America microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 33 North America microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 34 U.S. microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 35 U.S. microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 36 U.S. microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 37 U.S. microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 38 U.S. microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 39 U.S. microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 40 U.S. microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 41 U.S. microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 42 Canada microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 43 Canada microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 44 Canada microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 45 Canada microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 46 Canada microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 47 Canada microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 48 Canada microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 49 Canada microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 50 Europe microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 51 Europe microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 52 Europe microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 53 Europe microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 54 Europe microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 55 Europe microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 56 Europe microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 57 Europe microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 58 Germany microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 59 Germany microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 60 Germany microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 61 Germany microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 62 Germany microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 63 Germany microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 64 Germany microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 65 Germany microRNA market estimates& forecasts, by end-use, 2014 - 2025

(USD Million)

TABLE 66 U.K. microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 67 U.K. microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 68 U.K. microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 69 U.K. microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 70 U.K. microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 71 U.K. microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 72 U.K. microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 73 U.K. microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 74 Asia Pacific microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 75 Asia Pacific microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 76 Asia Pacific microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 77 Asia Pacific microRNA functional studies services market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 78 Asia Pacific microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 79 Asia Pacific microRNA consumable market estimates& forecasts, by products 2014 - 2025 (USD Million)

TABLE 80 Asia Pacific microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 81 Asia Pacific microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 82 Japan microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 83 Japan microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 84 Japan microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

- TABLE 85 Japan microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)
- TABLE 86 Japan microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)
- TABLE 87 Japan microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)
- TABLE 88 Japan microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)
- TABLE 89 Japan microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)
- TABLE 90 miRNAs targeted by anti-cancer Chinese medicinal herbs
- TABLE 91 China microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)
- TABLE 92 China microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)
- TABLE 93 China microRNA sample collection market estimates& forecasts, by res services, 2014 - 2025 (USD Million)
- TABLE 94 China microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)
- TABLE 95 China microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)
- TABLE 96 China microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)
- TABLE 97 China microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)
- TABLE 98 China microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)
- TABLE 99 Latin America microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)
- TABLE 100 Latin America microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)
- TABLE 101 Latin America microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)
- TABLE 102 Latin America microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)
- TABLE 103 Latin America microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)
- TABLE 104 Latin America microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 105 Latin America microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 106 Latin America microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 107 Brazil microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 108 Brazil microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 109 Brazil microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 110 Brazil microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 111 Brazil microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 112 Brazil microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 113 Brazil microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 114 Brazil microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 115 Middle East & Africa microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 116 Middle East & Africa microRNA market estimates & forecasts, by services, 2014 - 2025 (USD Million)

TABLE 117 Middle East & Africa microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 118 Middle East & Africa microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 119 Middle East & Africa microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 120 Middle East & Africa microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 121 Middle East & Africa microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 122 Middle East & Africa microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

TABLE 123 South Africa microRNA market estimates & forecasts, by products & services, 2014 - 2025 (USD Million)

TABLE 124 South Africa microRNA market estimates & forecasts, by services, 2014 -

2025 (USD Million)

TABLE 125 South Africa microRNA sample collection market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 126 South Africa microRNA functional studies market estimates& forecasts, by services, 2014 - 2025 (USD Million)

TABLE 127 South Africa microRNA market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 128 South Africa microRNA consumable market estimates& forecasts, by products, 2014 - 2025 (USD Million)

TABLE 129 South Africa microRNA market estimates& forecasts, by application, 2014 - 2025 (USD Million)

TABLE 130 South Africa microRNA market estimates& forecasts, by end-use, 2014 - 2025 (USD Million)

List Of Figures

LIST OF FIGURES

- FIG. 1 Market summary
- 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 modelling for market share assessment
- FIG. 8 Market trends & outlook
- FIG. 9 Market segmentation & scope
- FIG. 10 Market driver relevance analysis (Current & future impact)
- FIG. 11 Cost per raw megabase (Mb) of DNA sequence (USD)
- FIG. 12 Cost per genome (USD)
- FIG. 13 Market restraint relevance analysis (Current & future impact)
- FIG. 14 Penetration & growth prospect mapping for application, 2017
- FIG. 15 SWOT Analysis, By Factor (political & legal, economic and technological)
- FIG. 16 Porter's Five Forces Analysis
- FIG. 17 Global microRNA market: Products & services outlook key takeaways
- FIG. 18 MicroRNA synthesis market: Products & services movement analysis
- FIG. 19 Global services market, 2014 - 2025 (USD Million)
- FIG. 20 Global miRNA sample collection market, 2014 - 2025 (USD Million)
- FIG. 21 Global whole blood collection for miRNA market, 2014 - 2025 (USD Million)
- FIG. 22 Global serum collection for miRNA market, 2014 - 2025 (USD Million)
- FIG. 23 Global plasma collection for miRNA market, 2014 - 2025 (USD Million)
- FIG. 24 Global miRNA cDNA synthesis market, 2014 - 2025 (USD Million)
- FIG. 25 Global miRNA profiling & purification market, 2014 - 2025 (USD Million)
- FIG. 26 Global miRNA detection market, 2014 - 2025 (USD Million)
- FIG. 27 Global miRNA functional studies market, 2014 - 2025 (USD Million)
- FIG. 28 Global miRNA detection using NGS market, 2014 - 2025 (USD Million)
- FIG. 29 Global miRNA detection using microarray market, 2014 - 2025 (USD Million)
- FIG. 30 Global miRNA detection using RT-PCR services market, 2014 - 2025 (USD Million)
- FIG. 31 Global miRNA detection using other functional analysis services market, 2014 - 2025 (USD Million)
- FIG. 32 Global miRNA products market, 2014 - 2025 (USD Million)
- FIG. 33 Global miRNA instruments market, 2014 - 2025 (USD Million)

- FIG. 34 Global miRNA consumables market, 2014 - 2025 (USD Million)
- FIG. 35 Global miRNA isolation & purification consumables market, 2014 - 2025 (USD Million)
- FIG. 36 Global miRNA quantification & detection consumables market, 2014 - 2025 (USD Million)
- FIG. 37 Global miRNA functional analysis consumables market, 2014 - 2025 (USD Million)
- FIG. 38 Global miRNA other consumables market, 2014 - 2025 (USD Million)
- FIG. 39 Global microRNA market: Application outlook key takeaways
- FIG. 40 MicroRNA market: Application movement analysis
- FIG. 41 Global miRNA cancer market, 2014 - 2025 (USD Million)
- FIG. 42 Global miRNA infectious diseases market, 2014 - 2025 (USD Million)
- FIG. 43 Global miRNA immunological disorder market, 2014 - 2025 (USD Million)
- FIG. 44 Global miRNA cardiovascular disease market, 2014 - 2025 (USD Million)
- FIG. 45 Global miRNA neurological disease market, 2014 - 2025 (USD Million)
- FIG. 46 Global miRNA other applications market, 2014 - 2025 (USD Million)
- FIG. 47 Global microRNA market: End-use outlook key takeaways
- FIG. 48 MicroRNA market : End-use movement analysis
- FIG. 49 Global biotechnology & pharmaceutical companies market, 2014 - 2025 (USD Million)
- FIG. 50 Global academic & government research institutes market, 2014 - 2025 (USD Million)
- FIG. 51 Global other end-use market, 2014 - 2025 (USD Million)
- FIG. 52 Regional market place: Key takeaway
- FIG. 53 MicroRNA regional outlook, 2017 & 2025
- FIG. 54 North America microRNA market, 2014 - 2025 (USD Million)
- FIG. 55 U.S microRNA market, 2014 - 2025 (USD Million)
- FIG. 56 Canada microRNA market, 2014 - 2025 (USD Million)
- FIG. 57 Europe microRNA market, 2014 - 2025 (USD Million)
- FIG. 58 Germany microRNA market, 2014 - 2025 (USD Million)
- FIG. 59 U.K. microRNA market, 2014 - 2025 (USD Million)
- FIG. 60 Asia Pacific microRNA market, 2014 - 2025 (USD Million)
- FIG. 61 Japan microRNA market, 2014 - 2025 (USD Million)
- FIG. 62 China microRNA market, 2014 - 2025 (USD Million)
- FIG. 63 Latin America microRNA market, 2014 - 2025 (USD Million)
- FIG. 64 Brazil microRNA market, 2014 - 2025 (USD Million)
- FIG. 65 Middle East & Africa microRNA market, 2014 - 2025 (USD Million)
- FIG. 66 South Africa microRNA market, 2014 - 2025 (USD Million)
- FIG. 67 Strategy framework

FIG. 68 Participant categorization

FIG. 69 List of companies

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