

Pharmacogenomics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global pharmacogenomics market size reached US\$ 7.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 12.3 Billion by 2028, exhibiting a growth rate (CAGR) of 9.08% during 2022-2028.

Pharmacogenomics is the study of inherited variations in human genes in response to specific drugs. It utilizes the principles of pharmacology and genomics to develop effective and safe medications that are customized to the genetic makeup of an individual. It involves the use of various technologies, such as polymerase chain reaction (PCR), microarray, deoxyribonucleic acid (DNA) sequencing, mass spectrometry and electrophoresis. The genetic tests performed in pharmacogenomics aid in determining the susceptibility to certain diseases and efficacy of the newly developed drugs. Pharmacogenomics is also widely used in the treatment of various diseases, such as cardiovascular, Alzheimer's, cancer, human immunodeficiency virus and acquired immunodeficiency syndrome (HIV/AIDS) and asthma.

Pharmacogenomics Market Trends:

Significant growth in the pharmaceutical industry across the globe is one of the key factors creating a positive outlook for the market. Moreover, the increasing demand for precision medicines with enhanced drug safety is providing a thrust to the growth of the market. With the increasing prevalence of chronic lifestyle diseases, there is widespread adoption of targeted drug therapies with minimal side effects and improved efficacy. In line with this, pharmacogenomics is also extensively used for cancer treatments and anticipating the possible drug responses, resistance, efficacy and toxicity of the chemotherapeutic and targeted immune biologic agents, which is also contributing to the market growth. Additionally, various technological advancements, such as the

development of pharmacogenomic biomarker labeling solutions, are acting as other growth-inducing factors. They aid in minimizing the risks of avoidable adverse drug reactions (ADRs) in the body and improve clinical outcomes. Other factors, including extensive research and development (R&D) activities, along with significant improvements in the healthcare infrastructure, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global pharmacogenomics market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology, application and end user.

Breakup by Technology:

- Polymerase Chain Reaction
- Microarray
- DNA Sequencing
- Mass Spectrometry
- Electrophoresis
- Others

Breakup by Application:

- Oncology
- Infectious Diseases
- Cardiovascular Diseases
- Neurological Diseases
- Psychiatry
- Pain Management
- Others

Breakup by End User:

- Hospitals and Clinics
- Academic and Research Institutes

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Abbott Laboratories, AstraZeneca plc, Bayer AG, Becton Dickinson and Company, Bio-Rad Laboratories Inc., F. Hoffmann-La Roche AG, GlaxoSmithKline plc, Illumina Inc., Johnson & Johnson, Merck KGaA, Myriad Genetics Inc., Qiagen N.V. and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global pharmacogenomics market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global pharmacogenomics market?

What are the key regional markets?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global pharmacogenomics market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL PHARMACOGENOMICS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TECHNOLOGY

- 6.1 Polymerase Chain Reaction
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Microarray
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 DNA Sequencing

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Mass Spectrometry
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Electrophoresis
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast
- 6.6 Others
 - 6.6.1 Market Trends
 - 6.6.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Oncology
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Infectious Diseases
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Cardiovascular Diseases
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Neurological Diseases
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Psychiatry
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 Pain Management
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
- 7.7 Others
 - 7.7.1 Market Trends
 - 7.7.2 Market Forecast

8 MARKET BREAKUP BY END USER

- 8.1 Hospitals and Clinics

- 8.1.1 Market Trends
- 8.1.2 Market Forecast
- 8.2 Academic and Research Institutes
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
 - 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany

- 9.3.1.1 Market Trends
- 9.3.1.2 Market Forecast
- 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Abbott Laboratories

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 AstraZeneca plc

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.2.4 SWOT Analysis

14.3.3 Bayer AG

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 Becton Dickinson and Company

14.3.4.1 Company Overview

- 14.3.4.2 Product Portfolio
- 14.3.4.3 Financials
- 14.3.4.4 SWOT Analysis
- 14.3.5 Bio-Rad Laboratories Inc.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 F. Hoffmann-La Roche AG
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 SWOT Analysis
- 14.3.7 GlaxoSmithKline plc
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 Illumina Inc.
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Johnson & Johnson
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 Merck KGaA
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Myriad Genetics Inc.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis
- 14.3.12 Qiagen N.V.
 - 14.3.12.1 Company Overview

- 14.3.12.2 Product Portfolio
- 14.3.12.3 Financials
- 14.3.12.4 SWOT Analysis
- 14.3.13 Thermo Fisher Scientific Inc
 - 14.3.13.1 Company Overview
 - 14.3.13.2 Product Portfolio
 - 14.3.13.3 Financials
 - 14.3.13.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Pharmacogenomics Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Pharmacogenomics Market Forecast: Breakup by Technology (in Million US\$), 2023-2028

Table 3: Global: Pharmacogenomics Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Pharmacogenomics Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 5: Global: Pharmacogenomics Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Pharmacogenomics Market: Competitive Structure

Table 7: Global: Pharmacogenomics Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Pharmacogenomics Market: Major Drivers and Challenges
- Figure 2: Global: Pharmacogenomics Market: Sales Value (in Billion US\$), 2017-2022
- Figure 3: Global: Pharmacogenomics Market Forecast: Sales Value (in Billion US\$), 2023-2028
- Figure 4: Global: Pharmacogenomics Market: Breakup by Technology (in %), 2022
- Figure 5: Global: Pharmacogenomics Market: Breakup by Application (in %), 2022
- Figure 6: Global: Pharmacogenomics Market: Breakup by End User (in %), 2022
- Figure 7: Global: Pharmacogenomics Market: Breakup by Region (in %), 2022
- Figure 8: Global: Pharmacogenomics (Polymerase Chain Reaction) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 9: Global: Pharmacogenomics (Polymerase Chain Reaction) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 10: Global: Pharmacogenomics (Microarray) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 11: Global: Pharmacogenomics (Microarray) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 12: Global: Pharmacogenomics (DNA Sequencing) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 13: Global: Pharmacogenomics (DNA Sequencing) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 14: Global: Pharmacogenomics (Mass Spectrometry) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 15: Global: Pharmacogenomics (Mass Spectrometry) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 16: Global: Pharmacogenomics (Electrophoresis) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 17: Global: Pharmacogenomics (Electrophoresis) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 18: Global: Pharmacogenomics (Other Technologies) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 19: Global: Pharmacogenomics (Other Technologies) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 20: Global: Pharmacogenomics (Oncology) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 21: Global: Pharmacogenomics (Oncology) Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 22: Global: Pharmacogenomics (Infectious Diseases) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Pharmacogenomics (Infectious Diseases) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Pharmacogenomics (Cardiovascular Diseases) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Pharmacogenomics (Cardiovascular Diseases) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Pharmacogenomics (Neurological Diseases) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Pharmacogenomics (Neurological Diseases) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Pharmacogenomics (Psychiatry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Pharmacogenomics (Psychiatry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Pharmacogenomics (Pain Management) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Pharmacogenomics (Pain Management) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Pharmacogenomics (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Pharmacogenomics (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Pharmacogenomics (Hospitals and Clinics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Pharmacogenomics (Hospitals and Clinics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: Global: Pharmacogenomics (Academic and Research Institutes) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: Global: Pharmacogenomics (Academic and Research Institutes) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: North America: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: North America: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: United States: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: United States: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Canada: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Canada: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: Asia-Pacific: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Asia-Pacific: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: China: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: China: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Japan: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Japan: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: India: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: India: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: South Korea: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: South Korea: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Australia: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Australia: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Indonesia: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Indonesia: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Others: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Others: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Europe: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Europe: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 62: Germany: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: Germany: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: France: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: France: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: United Kingdom: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: United Kingdom: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Italy: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Italy: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Spain: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Spain: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Russia: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Russia: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Others: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Others: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Latin America: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Latin America: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Brazil: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Brazil: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Mexico: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Mexico: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 82: Others: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 83: Others: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 84: Middle East and Africa: Pharmacogenomics Market: Sales Value (in Million US\$), 2017 & 2022

Figure 85: Middle East and Africa: Pharmacogenomics Market: Breakup by Country (in %), 2022

Figure 86: Middle East and Africa: Pharmacogenomics Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 87: Global: Pharmacogenomics Industry: SWOT Analysis

Figure 88: Global: Pharmacogenomics Industry: Value Chain Analysis

Figure 89: Global: Pharmacogenomics Industry: Porter's Five Forces Analysis

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