

Global In Vitro Lung Model Market Size study, By Type (2D Models, 3D Models), By Application (Applications of 2D Models {Drug Discovery and Toxicology, 3D Model Development, Basic Research}, Applications of 3D Models {Drug Discovery and Toxicology, Physiological Research, Stem Cell Research and Regenerative Medicine}), and Regional Forecasts 2022-2028

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Abstracts

Global In Vitro Lung Model Market is valued approximately USD 317.37 million in 2021 and is anticipated to grow with a healthy growth rate of more than 17.5% over the forecast period 2022-2028.

The in vitro lung model is a cell model that elaborates the normal or diseased lung physiology. This model works like lung tissue, in terms of functionality and physiology, and also facilitates a prognostic for in vitro screening. Animal testing is the most prevalent model that is highly used to analyze the impact of various diseases but with the rising inclination for reducing animal experimentation, in vitro alternatives are gaining huge traction among researchers and scientists. The growing focus on developing substitutes for animal testing models, continuous technological developments of new 3D in vitro models, availability of funding coupled with rising incidences of chronic diseases such as asthma, lung cancer, and COPD are the major factors that are surging the market demand across the globe. As per the WHO, chronic obstructive pulmonary disease (COPD) is the third major reason of fatalities worldwide, which leads to 3.23 million fatalities in 2019. Moreover, as per the American Lung Association, there were nearly 15.3 million people were diagnosed with COPD in 2017

and the amount reached 16.4 million people in 2018. Therefore, rising incidences of lung-associated diseases are fueling the demand for the in vitro lung model in the impending years. However, the shortage of skilled professionals and complex processes for in vitro models impedes the growth of the market over the forecast period of 2022-2028. Also, the growing number of drug discovery activities and rising applications in oncology research, tissue engineering, and regenerative medicine is anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global In Vitro Lung Model market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to the growing number of R&D activities by pharmaceutical and biotechnology companies and the presence of the leading market players. Whereas, Asia-Pacific is anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as increasing government initiatives, as well as developing health care infrastructure, would create lucrative growth prospects for the In Vitro Lung Model market across the Asia-Pacific region.

Major market players included in this report are:

Epithelix Srl

MatTek Corporation

Lonza Group

ATCC Company

InSphero AG

Emulate Company

AlveoliX AG

Oncotheis Ltd.

TissUse GmbH

CN Bio Innovations Ltd.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Components offerings of

key players. The detailed segments and sub-segment of the market are explained below:

By Type:

2D Models

3D Models

By Application:

Applications of 2D Models

Drug Discovery and Toxicology

3D Model Development

Basic Research

Applications of 3D Models

Drug Discovery and Toxicology

Physiological Research

Stem Cell Research and Regenerative Medicine

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global In Vitro Lung Model Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2028 (USD Million)
 - 1.2.1. Global In Vitro Lung Model Market, by Region, 2020-2028 (USD Million)
 - 1.2.2. Global In Vitro Lung Model Market, by Type, 2020-2028 (USD Million)
 - 1.2.3. Global In Vitro Lung Model Market, by Application, 2020-2028 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL IN VITRO LUNG MODEL MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL IN VITRO LUNG MODEL MARKET DYNAMICS

- 3.1. In Vitro Lung Model Market Impact Analysis (2020-2028)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising focus on developing alternatives for animal testing models
 - 3.1.1.2. Technological advancements and the development of new 3D In-vitro models
 - 3.1.2. Market Challenges
 - 3.1.2.1. Shortage of skilled professionals
 - 3.1.2.2. Complex in vitro models process
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Increasing number of drug discovery activities
 - 3.1.3.2. Rising applications in oncology research, tissue engineering, and regenerative medicine

CHAPTER 4. GLOBAL IN VITRO LUNG MODEL MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model (2019-2028)
- 4.2. PEST Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
- 4.3. Investment Adoption Model
- 4.4. Analyst Recommendation & Conclusion
- 4.5. Top investment opportunity
- 4.6. Top winning strategies

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

- 5.1.1. Assessment of the overall impact of COVID-19 on the industry
- 5.1.2. Pre COVID-19 and post COVID-19 market scenario

CHAPTER 6. GLOBAL IN VITRO LUNG MODEL MARKET, BY TYPE

- 6.1. Market Snapshot
- 6.2. Global In Vitro Lung Model Market by Type, Performance - Potential Analysis
- 6.3. Global In Vitro Lung Model Market Estimates & Forecasts by Type 2019-2028 (USD Million)
- 6.4. In Vitro Lung Model Market, Sub Segment Analysis
 - 6.4.1. 2D Models
 - 6.4.2. 3D Models

CHAPTER 7. GLOBAL IN VITRO LUNG MODEL MARKET, BY APPLICATION

- 7.1. Market Snapshot
- 7.2. Global In Vitro Lung Model Market by Application, Performance - Potential Analysis
- 7.3. Global In Vitro Lung Model Market Estimates & Forecasts by Application 2019-2028 (USD Million)
- 7.4. In Vitro Lung Model Market, Sub Segment Analysis
 - 7.4.1. Applications of 2D Models

- 7.4.1.1. Drug Discovery and Toxicology
- 7.4.1.2. 3D Model Development
- 7.4.1.3. Basic Research
- 7.4.2. Applications of 3D Models
 - 7.4.2.1. Drug Discovery and Toxicology
 - 7.4.2.2. Physiological Research
 - 7.4.2.3. Stem Cell Research and Regenerative Medicine

CHAPTER 8. GLOBAL IN VITRO LUNG MODEL MARKET, REGIONAL ANALYSIS

- 8.1. In Vitro Lung Model Market, Regional Market Snapshot
- 8.2. North America In Vitro Lung Model Market
 - 8.2.1. U.S. In Vitro Lung Model Market
 - 8.2.1.1. Type estimates & forecasts, 2019-2028
 - 8.2.1.2. Application estimates & forecasts, 2019-2028
 - 8.2.2. Canada In Vitro Lung Model Market
- 8.3. Europe In Vitro Lung Model Market Snapshot
 - 8.3.1. U.K. In Vitro Lung Model Market
 - 8.3.2. Germany In Vitro Lung Model Market
 - 8.3.3. France In Vitro Lung Model Market
 - 8.3.4. Spain In Vitro Lung Model Market
 - 8.3.5. Italy In Vitro Lung Model Market
 - 8.3.6. Rest of Europe In Vitro Lung Model Market
- 8.4. Asia-Pacific In Vitro Lung Model Market Snapshot
 - 8.4.1. China In Vitro Lung Model Market
 - 8.4.2. India In Vitro Lung Model Market
 - 8.4.3. Japan In Vitro Lung Model Market
 - 8.4.4. Australia In Vitro Lung Model Market
 - 8.4.5. South Korea In Vitro Lung Model Market
 - 8.4.6. Rest of Asia Pacific In Vitro Lung Model Market
- 8.5. Latin America In Vitro Lung Model Market Snapshot
 - 8.5.1. Brazil In Vitro Lung Model Market
 - 8.5.2. Mexico In Vitro Lung Model Market
- 8.6. Rest of The World In Vitro Lung Model Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Top Market Strategies
- 9.2. Company Profiles

- 9.2.1. Epithelix Srl
 - 9.2.1.1. Key Information
 - 9.2.1.2. Overview
 - 9.2.1.3. Financial (Subject to Data Availability)
 - 9.2.1.4. Components Summary
 - 9.2.1.5. Recent Developments
- 9.2.2. MatTek Corporation
- 9.2.3. Lonza Group
- 9.2.4. ATCC Company
- 9.2.5. InSphero AG
- 9.2.6. Emulate Company
- 9.2.7. AlveoliX AG
- 9.2.8. Oncotheis Ltd.
- 9.2.9. TissUse GmbH
- 9.2.10. CN Bio Innovations Ltd.

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes
- 10.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global In Vitro Lung Model Market, report scope

TABLE 2. Global In Vitro Lung Model Market estimates & forecasts by Region
2019-2028 (USD Million)

TABLE 3. Global In Vitro Lung Model Market estimates & forecasts by Type 2019-2028
(USD Million)

TABLE 4. Global In Vitro Lung Model Market estimates & forecasts by Application
2019-2028 (USD Million)

TABLE 5. Global In Vitro Lung Model Market by segment, estimates & forecasts,
2019-2028 (USD Million)

TABLE 6. Global In Vitro Lung Model Market by region, estimates & forecasts,
2019-2028 (USD Million)

TABLE 7. Global In Vitro Lung Model Market by segment, estimates & forecasts,
2019-2028 (USD Million)

TABLE 8. Global In Vitro Lung Model Market by region, estimates & forecasts,
2019-2028 (USD Million)

TABLE 9. Global In Vitro Lung Model Market by segment, estimates & forecasts,
2019-2028 (USD Million)

TABLE 10. Global In Vitro Lung Model Market by region, estimates & forecasts,
2019-2028 (USD Million)

TABLE 11. Global In Vitro Lung Model Market by segment, estimates & forecasts,
2019-2028 (USD Million)

TABLE 12. Global In Vitro Lung Model Market by region, estimates & forecasts,
2019-2028 (USD Million)

TABLE 13. Global In Vitro Lung Model Market by segment, estimates & forecasts,
2019-2028 (USD Million)

TABLE 14. Global In Vitro Lung Model Market by region, estimates & forecasts,
2019-2028 (USD Million)

TABLE 15. U.S. In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD
Million)

TABLE 16. U.S. In Vitro Lung Model Market estimates & forecasts by segment
2019-2028 (USD Million)

TABLE 17. U.S. In Vitro Lung Model Market estimates & forecasts by segment
2019-2028 (USD Million)

TABLE 18. Canada In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD
Million)

TABLE 19. Canada In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 20. Canada In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 21. UK In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 22. UK In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 23. UK In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 24. Germany In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 25. Germany In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 26. Germany In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 27. RoE In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 28. RoE In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 29. RoE In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 30. China In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 31. China In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 32. China In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 33. India In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 34. India In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 35. India In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 36. Japan In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 37. Japan In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 38. Japan In Vitro Lung Model Market estimates & forecasts by segment

2019-2028 (USD Million)

TABLE 39. RoAPAC In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 40. RoAPAC In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 41. RoAPAC In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 42. Brazil In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 43. Brazil In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 44. Brazil In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 45. Mexico In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 46. Mexico In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 47. Mexico In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 48. RoLA In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 49. RoLA In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 50. RoLA In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 51. Row In Vitro Lung Model Market estimates & forecasts, 2019-2028 (USD Million)

TABLE 52. Row In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 53. Row In Vitro Lung Model Market estimates & forecasts by segment 2019-2028 (USD Million)

TABLE 54. List of secondary sources, used in the study of global In Vitro Lung Model Market

TABLE 55. List of primary sources, used in the study of global In Vitro Lung Model Market

TABLE 56. Years considered for the study

TABLE 57. Exchange rates considered

List Of Figures

LIST OF FIGURES

- FIG 1. Global In Vitro Lung Model Market, research methodology
- FIG 2. Global In Vitro Lung Model Market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global In Vitro Lung Model Market, key trends 2021
- FIG 5. Global In Vitro Lung Model Market, growth prospects 2022-2028
- FIG 6. Global In Vitro Lung Model Market, porters 5 force model
- FIG 7. Global In Vitro Lung Model Market, pest analysis
- FIG 8. Global In Vitro Lung Model Market, value chain analysis
- FIG 9. Global In Vitro Lung Model Market by segment, 2019 & 2028 (USD Million)
- FIG 10. Global In Vitro Lung Model Market by segment, 2019 & 2028 (USD Million)
- FIG 11. Global In Vitro Lung Model Market by segment, 2019 & 2028 (USD Million)
- FIG 12. Global In Vitro Lung Model Market by segment, 2019 & 2028 (USD Million)
- FIG 13. Global In Vitro Lung Model Market by segment, 2019 & 2028 (USD Million)
- FIG 14. Global In Vitro Lung Model Market, regional snapshot 2019 & 2028
- FIG 15. North America In Vitro Lung Model Market 2019 & 2028 (USD Million)
- FIG 16. Europe In Vitro Lung Model Market 2019 & 2028 (USD Million)
- FIG 17. Asia pacific market 2019 & 2028 (USD Million)
- FIG 18. Latin America In Vitro Lung Model Market 2019 & 2028 (USD Million)
- FIG 19. Global In Vitro Lung Model Market, company market share analysis (2021)

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