

# Exosome Diagnostics, Therapeutics and Research Tools: Global Markets

<https://marketpublishers.com/r/EEBD72498CAEN.html>

Date: April 2024

Pages: 101

Price: US\$ 5,500.00 (Single User License)

ID: EEBD72498CAEN

## Abstracts

### Report Scope

This report aims to provide a comprehensive study of the global market for exosome diagnostic, therapeutic, and research tools, both in terms of quantitative and qualitative data, to help readers develop business/growth strategies, assess the market landscape, analyze their position in the current marketplace, and make informed business decisions regarding exosome products. BCC Research estimates market data for 2022 (the base year) and forecasts values for 2023 through 2028.

The scope of this study is global and covers exosome products and research tools used in the healthcare industry only. Exosome products and research tools used in other sectors, such as skincare and beauty, are beyond the scope of this report.

### Report Includes

14 data tables and 77 additional tables

Analysis of the global markets and global trends for exosome diagnostics and therapeutics, with revenue data for 2021-2022, estimates for 2023, forecasts for 2024, and projected CAGRs through 2028

Estimate of the current market size and revenue growth prospects, along with a market share analysis based on product, application, end user and region

Facts and figures pertaining to the market drivers, opportunities and restraints, and the impacts of macroeconomic variables

Discussion of emerging technologies, regulations and R&D efforts

Evaluation of new commercial opportunities in the diagnostics, therapeutics and research tools markets, and an assessment of trends, products and assay developments

Insight into the use of exosome proteins and nucleic acids as diagnostic biomarkers and their impact on the microRNA, liquid biopsy and stem cell research industry

Analysis of relevant patents related to exosome diagnostics and therapeutics in the U.S., Europe and Japan

Overview of sustainability trends and ESG developments, including consumer attitudes, companies' ESG score rankings and their ESG practices

Analysis of the competitive landscape, including companies' market shares, business segments, financials and product portfolios, as well as recent M&A activity and a venture funding outlook

Company profiles of major players within the industry, including Bio-Techne, Exosomics S.p.A., and System Biosciences LLC.

## Contents

### CHAPTER 1 EXECUTIVE SUMMARY

Market Outlook  
Scope of Report  
Market Summary

### CHAPTER 2 MARKET OVERVIEW

Exosome Basics  
Exosome Biogenesis and Processing  
Exosome Function and Physiology  
Intracellular Communication  
Facilitation of the Immune Response  
Tissue Regeneration  
Bioinformatic Databases for Exosome Research and Product Development  
ExoCarta  
Vesiclepedia  
EVpedia

### CHAPTER 3 MARKET DYNAMICS

Overview  
Market Drivers  
Increasing Investment in Biomedical Research  
Trend Towards Precision Medicine  
Technological Advancements in Exosome Research Tools  
Restraints  
Evolving Regulatory Landscape  
Lack of Well-Characterized Exosome Standards  
Opportunities  
Growing Popularity in Liquid Biopsy  
Benefits Over Stem Cell Therapy  
Challenges  
Funding Issues

### CHAPTER 4 REGULATORY LANDSCAPE

U.S.

Exosome Therapeutics

Exosome Clinical Assays Development and Marketing

## **CHAPTER 5 EMERGING TECHNOLOGIES AND DEVELOPMENTS**

Emerging Technologies

Engineered Exosomes

Microfluidic Technology

Exosome Research Services

Exosome Based Liquid Biopsy Tests

Clinical Trial Analysis

Overview

By Phases

By Funder Type

By Disease Type

By Country

Pipeline Analysis

## **CHAPTER 6 MARKET SEGMENTATION ANALYSIS**

Segmental Breakdown

Market Analysis by Application Type

Diagnostics and Monitoring

Evaluation of the Diagnostics and Monitoring Market

Cancer

CNS Disorders and Neurodegeneration Diseases

Organ Transplantation

Cardiovascular Diseases

Others

Diagnostics and Monitoring Market Revenue

Exosome Therapeutics

Potential Therapeutic Applications

Evaluation of the Current and Potential Therapeutics Market

Key Target Indications

Research Tools and Regents

Research Tools and Reagents Market Revenue

Geographic Breakdown

North America

Europe

Asia-Pacific

Rest of the World (RoW)

## **CHAPTER 7 COMPETITIVE INTELLIGENCE**

Overview

Exosome-Based Clinical Diagnostics Market

Market Participants in the Exosome-Based Clinical Diagnostics Market

Exosome-Based Therapeutics Market

Market Participants in the Exosome-Based Therapeutics Market

Exosome Research Tools and Reagents Market

Market Participants in the Exosome Research Tools and Reagents Market

Key Strategies

Opportunities and Challenges in the Exosome Market

## **CHAPTER 8 APPENDIX**

Methodology

Sources/References

Acronyms

Company Profiles

ACOUSORT AB

AEGLE THERAPEUTICS

AETHLON MEDICAL INC.

ARUNA BIO INC.

BIO-TECHNE

CAPRICOR THERAPEUTICS INC.

CARIS LIFE SCIENCES

DIRECT BIOLOGICS LLC

EXOSOMICS SPA

EVOX THERAPEUTICS LTD.

KIMERA LABS

LONZA

MIR SCIENTIFIC

NANO MED

NANOSOMIX

RION

SYSTEM BIOSCIENCES LLC



## List Of Tables

### LIST OF TABLES

Summary Table: Global Market for Exosome Diagnostics, Therapeutics and Research Tools, by Application, Through 2028

Table 1: Steps in Exosome Biogenesis and Processing

Table 2: Comparison of Databases for Exosome Studies

Table 3: Key Properties of CTC vs. cfDNA vs. Exosomes

Table 4: FDA Drug Approval Process

Table 5: Multiple Paths to Market for Biomarker Tests

Table 6: Phase 1 Above Active and Completed Clinical Trials for Potential Exosome Therapeutic Candidates

Table 7: Why Exosomes as Biomarkers

Table 8: Examples of Exosomal Proteins for Clinical Diagnostic Applications

Table 9: Examples of Exosomal miRNA for Clinical Diagnostic Applications

Table 10: Exosome-Based Commercial Clinical Assays for Prostate Cancer

Table 11: Selected Exosome-Based Clinical Assays that Are Currently Undergoing Clinical Validation

Table 12: Global Market for Exosome Diagnostics and Monitoring, Through 2028

Table 13: Examples of Engineering Exosome for Cargo Delivery

Table 14: Intrinsic Therapeutic Activity of Exosomes

Table 15: Comparison of Cell and Exosome Therapies

Table 16: Global Market for Exosome Therapeutics, Through 2028

Table 17: Exosome Clinical Studies for ARDS

Table 18: Exosome Clinical Studies for RP

Table 19: Exosome Clinical Studies for Skin Conditions

Table 20: Exosome Clinical Studies for Autoimmune and Inflammatory Diseases

Table 21: Exosome Clinical Studies for Other Conditions

Table 22: Main Steps in the Exosome Research Approach

Table 23: Methods for Exosome Isolation

Table 24: Comparison of Exosome Isolation and Purification Methods

Table 25: Examples of Commercially Available Exosome Isolation and Purification Research Tools

Table 26: Methods for Exosome Detection and Analysis

Table 27: Important Antibodies for Exosome Research

Table 28: Examples of Commercially Available Exosome Engineering Tools

Table 29: Global Market for Exosome Research Tools and Reagents, Through 2028

Table 30: Global Market for Exosome Diagnostics, Therapeutics and Research Tools

and Reagents, by Region, Through 2028

Table 31: North American Market for Exosome Diagnostics, Therapeutics and Research Tools and Reagents, by Application, Through 2028

Table 32: European Market for Exosome Diagnostics, Therapeutics and Research Tools and Reagents, by Application, Through 2028

Table 33: Asia-Pacific Market for Exosome Diagnostics, Therapeutics and Research Tools and Reagents, Through 2028

Table 34: RoW Market for Exosome Diagnostics, Therapeutics and Research Tools and Reagents, Through 2028

Table 35: Key Market Participants in Exosome-based Clinical Assays Market

Table 36: Key Market Participants in Exosome-based Therapeutics Sector

Table 37: Main Market Participants in Exosome Research Tools and Reagents

Table 38: Selected Collaborations/Partnerships in the Exosome Market

Table 39: Glossary of Terms Used in Exosome Diagnostics and Therapeutics: Global Markets

Table 40: AcouSort AB: Company Snapshot

Table 41: AcouSort AB: Financial Performance, FY 2021 and 2022

Table 42: AcouSort AB: Product Portfolio

Table 43: AcouSort AB: News/Key Developments, 2022

Table 44: Aegle Therapeutics: Company Snapshot

Table 45: Aegle Therapeutics: Product Portfolio

Table 46: Aethlon Medical Inc.: Company Snapshot

Table 47: Aethlon Medical Inc.: Financial Performance, FY 2022 and 2023

Table 48: Aethlon Medical Inc.: Product Portfolio

Table 49: Aethlon Medical Inc.: News/Key Developments, 2022 and 2023

Table 50: Aruna Bio Inc.: Company Snapshot

Table 51: Aruna Bio Inc.: Product Portfolio

Table 52: Aruna Bio Inc.: News/Key Developments, 2024

Table 53: Bio-Techne: Company Snapshot

Table 54: Bio-Techne: Financial Performance, FY 2022 and 2023

Table 55: Bio-Techne: Product Portfolio

Table 56: Bio-Techne: News/Key Developments, 2022 and 2023

Table 57: Capricor Therapeutics Inc.: Company Snapshot

Table 58: Capricor Therapeutics Inc.: Financial Performance, FY 2022 and 2023

Table 59: Capricor Therapeutics Inc.: Product Portfolio

Table 60: Capricor Therapeutics Inc.: News/Key Developments, 2024

Table 61: Caris Life Sciences: Company Snapshot

Table 62: Caris Life Sciences: Product Portfolio

Table 63: Caris Life Sciences: News/Key Developments, 2022



Table 64: Direct Biologics LLC: Company Snapshot
Table 65: Direct Biologics LLC: Product Portfolio
Table 66: Direct Biologics LLC: News/Key Developments, 2022 and 2023
Table 67: Exosomics SPA: Company Snapshot
Table 68: Exosomics SPA: Product Portfolio
Table 69: EVOX Therapeutics Ltd.: Company Snapshot
Table 70: Evox Therapeutics Ltd.: Product Portfolio
Table 71: Evox Therapeutics Ltd.: News/Key Developments, 2021-2023
Table 72: Kimera Labs: Company Snapshot
Table 73: Kimera Labs: Product Portfolio
Table 74: Kimera Labs: News/Key Developments, 2023
Table 75: Lonza: Company Snapshot
Table 76: Lonza: Financial Performance, FY 2022 and 2023
Table 77: Lonza: Product Portfolio
Table 78: Lonza: News/Key Developments, 2021
Table 79: miR Scientific: Company Snapshot
Table 80: miR Scientific: Product Portfolio
Table 81: miR Scientific: News/Key Developments, 2022 and 2023
Table 82: Nano Med: Company Snapshot
Table 83: Nano Med: Product Portfolio
Table 84: NanoSomiX: Company Snapshot
Table 85: NanoSomiX: Product Portfolio
Table 86: Rion: Company Snapshot
Table 87: Rion: Product Portfolio
Table 88: Rion: News/Key Developments, 2023 and 2024
Table 89: System Biosciences LLC: Company Snapshot
Table 90: System Biosciences LLC: Product Portfolio

## List Of Figures

### LIST OF FIGURES

Summary Figure: Global Market for Exosome Diagnostics, Therapeutics and Research Tools, by Application, 2021-2028

Figure 1: Key Cellular Process under Investigation for Potential Role of Exosomes

Figure 2: Market Dynamics of Exosome Diagnostics, Therapeutics and Research Tools

Figure 3: PubMed Article Count: “Exosome,” 2017-2023

Figure 4: Interest Over Time on Google Trends: “Exosome,” 2017-2023

Figure 5: Exosomes: Scalable Production

Figure 6: Emerging Technologies in the Exosome Market

Figure 7: Exosome Clinical Studies, by Phase, as of January 2024

Figure 8: Exosome Clinical Studies, by Funder Type, January 2024

Figure 9: Exosome Clinical Studies, by Disease Type, January 2024

Figure 10: Exosome Clinical Studies, by Country, January 2024

Figure 11: Potential Clinical Applications of Exosome-based Assays

Figure 12: Global Market for Exosome Diagnostics and Monitoring, 2021-2028

Figure 13: Global Market for Exosome Therapeutics, 2021-2028

Figure 14: Exosome Research Process and Product Uses

Figure 15: Global Market for Exosome Research Tools and Reagents, 2021–2028

Figure 16: Global Market Shares of Exosome Diagnostics, Therapeutics and Research Tools and Reagents, by Region, 2022

Figure 17: Investment in Grants for Biomedical Research, by Region, 2020

Figure 18: Opportunities and Challenges in the Exosome Market

Figure 19: Bio-Techne: Revenue Share, by Business Unit, FY 2023

Figure 20: Bio-Techne: Revenue Share, by Country/Region, FY 2023

Figure 21: Lonza: Revenue Share, by Business Unit, FY 2023

## I would like to order

Product name: Exosome Diagnostics, Therapeutics and Research Tools: Global Markets

Product link: <https://marketpublishers.com/r/EEBD72498CAEN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EEBD72498CAEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970