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Global Irreversible Electroporation Devices for Research Market Growth 2026-2032

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Abstracts

The global Irreversible Electroporation Devices for Research market size is predicted to grow from US$ 24.06 million in 2025 to US$ 45.94 million in 2032; it is expected to grow at a CAGR of 9.6% from 2026 to 2032.

Irreversible Electroporation Devices for Research are scientific instruments that use programmable high-voltage pulse generators, electrodes, experimental chambers, control software, and safety-interlock components to apply intense, short-duration electric fields to cells, ex vivo tissues, or experimental animal tissues. When the delivered electrical exposure exceeds the recovery threshold of the cell membrane, permanent nanoscale pores are formed, resulting in irreversible membrane damage and cell death. The market includes both dedicated systems designed for IRE, H-FIRE, and nanosecond pulsed electric field research and general-purpose research electroporators capable of adjusting voltage, pulse width, pulse number, and pulse interval to achieve irreversible electroporation conditions. Major research applications include characterization of cell-killing dose-response relationships, investigation of tumor-ablation and cell-death mechanisms, analysis of membrane permeability changes, evaluation of tissue injury zones, and optimization of electrode configurations and pulse waveforms, using in vitro cells, ex vivo tissues, small animals, and large-animal preclinical models. Key upstream components include high-voltage semiconductor switches, capacitors, pulse transformers, FPGA controllers, voltage and current sensors, high-voltage connectors and cables, insulation materials, electrodes, experimental chambers, and embedded software, while major downstream customers include universities, research institutes, hospitals and academic medical centers, medical-device companies, biotechnology companies, and contract research organizations. Based on the ex-factory value of currently marketed equipment capable of supporting irreversible electroporation research, estimated global effective assembly

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capacity was approximately 820 units per year in 2025, while sales volume was approximately 613 units. The weighted average ex-factory price was approximately USD 40,130 per unit, and the typical industry gross margin ranged from 42% to 58%.

The global market for Irreversible Electroporation Devices for Research is gradually shifting from laboratory-built high-voltage pulse systems toward standardized, modular, and commercially available research platforms. Early studies frequently combined general-purpose electroporators, high-voltage pulse generators, and customized electrodes, resulting in substantial variation in parameter control, load matching, delivered waveform, and experimental safety. These differences often limited comparability between laboratories. As general-purpose research electroporation systems such as BTX instruments continue to be used in cell and tissue studies, and specialized suppliers introduce platforms for IRE, H-FIRE, and nanosecond pulsed electric field research, users are placing greater emphasis on real-time waveform monitoring, parameter traceability, protocol storage, and safety interlocks. Standardized commercial systems are expected to play a larger role in improving experimental reproducibility, reducing system-integration requirements, and supporting multicenter research.

Demand growth is being driven by studies of cell-killing characteristics and dose-response relationships, mechanisms of tumor death following irreversible electroporation, and the effects of electroporation on membrane permeability, organelle injury, and immune responses. Experimental models are expanding from suspended and adherent cells to three-dimensional cell cultures, ex vivo tissues, small animals, and large-animal preclinical studies. Research applications are also extending beyond tumor ablation into cardiac pulsed-field ablation, neuromodulation, tissue regeneration, and immunogenic cell death. Medical-device companies require research equipment to validate pulse waveforms, electrode configurations, ablation boundaries, thermal effects, and tissue safety during the development of new ablation systems, supporting demand for high-voltage, high-current, and multichannel platforms. Increasing participation by hospitals and academic medical centers in translational research is further broadening the customer base.

From a technology perspective, equipment is progressing from fixed monophasic square-wave output toward programmable architectures supporting monophasic, biphasic, asymmetric, multilevel, and arbitrary pulse sequences. Conventional microsecond pulses remain widely used for cell-death threshold and tissue-ablation studies, while short-microsecond bipolar pulses are increasingly applied in H-FIRE research and studies aimed at reducing neuromuscular stimulation. Nanosecond pulses

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are primarily used to investigate intracellular membrane structures, calcium signaling, and subcellular effects. Next-generation systems are expected to incorporate real-time voltage and current acquisition, tissue-impedance feedback, temperature monitoring, cardiac synchronization, automated switching between multiple electrodes, and advanced data-export functions. Integration with finite-element simulation, image guidance, and automated cell-testing platforms will also become more common. Modular systems capable of supporting in vitro, ex vivo, and animal studies on a single platform are likely to gain an advantage over fixed-function instruments.

Market development remains constrained by the absence of unified research standards, high-voltage operating risks, relatively high equipment costs, and lengthy academic procurement cycles. Generator settings do not necessarily represent the waveform delivered at the electrode, because cables, electrode spacing, tissue impedance, and parasitic capacitance can distort pulse shape and amplitude, affecting electric-field dose, ablation volume, and experimental reproducibility. Some universities and research institutes continue to rely on internally developed systems or general-purpose electroporators, slowing adoption of dedicated IRE equipment. In addition, the lack of standardized performance validation and calibration procedures makes direct comparison between manufacturers difficult. Future competition will increasingly focus on output accuracy, waveform flexibility, biological application compatibility, calibration services, software usability, and preclinical development support. Suppliers combining expertise in high-voltage power electronics, biomedical applications, and engineering services are expected to achieve stronger competitive positions.

LP Information, Inc. (LPI) ' newest research report, the “Irreversible Electroporation Devices for Research Industry Forecast” looks at past sales and reviews total world Irreversible Electroporation Devices for Research sales in 2025, providing a comprehensive analysis by region and market sector of projected Irreversible Electroporation Devices for Research sales for 2026 through 2032. With Irreversible Electroporation Devices for Research sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Irreversible Electroporation Devices for Research industry.

This Insight Report provides a comprehensive analysis of the global Irreversible Electroporation Devices for Research landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Irreversible Electroporation Devices for Research portfolios and capabilities, market entry strategies, market positions, and geographic

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footprints, to better understand these firms' unique position in an accelerating global Irreversible Electroporation Devices for Research market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Irreversible Electroporation Devices for Research and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Irreversible Electroporation Devices for Research.

This report presents a comprehensive overview, market shares, and growth opportunities of Irreversible Electroporation Devices for Research market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Nanosecond-capable (<1 ?s)

Short Microsecond (1–10 ?s)

Conventional Microsecond (>10 ?s)

Segmentation by Maximum Output Voltage:

Up to 1.5 kV

Above 1.5–5 kV

Above 5 kV

Segmentation by Waveform Capability:

Monophasic

Biphasic

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Other

Segmentation by Application:

Universities and Research Institutes

Hospitals and Academic Medical Centers

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- Harvard Bioscience
- Eagle Harbor Technologies
- Vantage MedTech
- EnergyPulse Systems
- LEROY Biotech

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Montena Technology

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Irreversible Electroporation Devices for Research market?

What factors are driving Irreversible Electroporation Devices for Research market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Irreversible Electroporation Devices for Research market opportunities vary by end market size?

How does Irreversible Electroporation Devices for Research break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Irreversible Electroporation Devices for Research Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Irreversible Electroporation Devices for Research by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Irreversible Electroporation Devices for Research by Country/Region, 2021, 2025 & 2032
2.2 Irreversible Electroporation Devices for Research Segment by Type
  2.2.1 Nanosecond-capable (<1 ?s)
  2.2.2 Short Microsecond (1–10 ?s)
  2.2.3 Conventional Microsecond (>10 ?s)
  2.2.4 Irreversible Electroporation Devices for Research Sales by Type
    2.2.4.1 Global Irreversible Electroporation Devices for Research Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Irreversible Electroporation Devices for Research Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Irreversible Electroporation Devices for Research Sale Price by Type (2021-2026)
2.3 Irreversible Electroporation Devices for Research Segment by Maximum Output Voltage
  2.3.1 Up to 1.5 kV
  2.3.2 Above 1.5–5 kV
  2.3.3 Above 5 kV
  2.3.4 Irreversible Electroporation Devices for Research Sales by Maximum Output

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Voltage
2.3.4.1 Global Irreversible Electroporation Devices for Research Sales Market Share by Maximum Output Voltage (2021-2026)
2.3.4.2 Global Irreversible Electroporation Devices for Research Revenue and Market Share by Maximum Output Voltage (2021-2026)
2.3.4.3 Global Irreversible Electroporation Devices for Research Sale Price by Maximum Output Voltage (2021-2026)
2.4 Irreversible Electroporation Devices for Research Segment by Waveform Capability
2.4.1 Monophasic
2.4.2 Biphasic
2.4.3 Other
2.4.4 Irreversible Electroporation Devices for Research Sales by Waveform Capability
2.4.4.1 Global Irreversible Electroporation Devices for Research Sales Market Share by Waveform Capability (2021-2026)
2.4.4.2 Global Irreversible Electroporation Devices for Research Revenue and Market Share by Waveform Capability (2021-2026)
2.4.4.3 Global Irreversible Electroporation Devices for Research Sale Price by Waveform Capability (2021-2026)
2.5 Irreversible Electroporation Devices for Research Segment by Application
2.5.1 Universities and Research Institutes
2.5.2 Hospitals and Academic Medical Centers
2.5.3 Other
2.5.4 Irreversible Electroporation Devices for Research Sales by Application
2.5.4.1 Global Irreversible Electroporation Devices for Research Sale Market Share by Application (2021-2026)
2.5.4.2 Global Irreversible Electroporation Devices for Research Revenue and Market Share by Application (2021-2026)
2.5.4.3 Global Irreversible Electroporation Devices for Research Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Irreversible Electroporation Devices for Research Breakdown Data by Company
3.1.1 Global Irreversible Electroporation Devices for Research Annual Sales by Company (2021-2026)
3.1.2 Global Irreversible Electroporation Devices for Research Sales Market Share by Company (2021-2026)
3.2 Global Irreversible Electroporation Devices for Research Annual Revenue by

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Company (2021-2026)
3.2.1 Global Irreversible Electroporation Devices for Research Revenue by Company (2021-2026)
3.2.2 Global Irreversible Electroporation Devices for Research Revenue Market Share by Company (2021-2026)
3.3 Global Irreversible Electroporation Devices for Research Sale Price by Company
3.4 Key Manufacturers Irreversible Electroporation Devices for Research Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Irreversible Electroporation Devices for Research Product Location Distribution
3.4.2 Players Irreversible Electroporation Devices for Research Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR IRREVERSIBLE ELECTROPORATION DEVICES FOR RESEARCH BY GEOGRAPHIC REGION

4.1 World Historic Irreversible Electroporation Devices for Research Market Size by Geographic Region (2021-2026)
4.1.1 Global Irreversible Electroporation Devices for Research Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Irreversible Electroporation Devices for Research Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Irreversible Electroporation Devices for Research Market Size by Country/Region (2021-2026)
4.2.1 Global Irreversible Electroporation Devices for Research Annual Sales by Country/Region (2021-2026)
4.2.2 Global Irreversible Electroporation Devices for Research Annual Revenue by Country/Region (2021-2026)
4.3 Americas Irreversible Electroporation Devices for Research Sales Growth
4.4 APAC Irreversible Electroporation Devices for Research Sales Growth
4.5 Europe Irreversible Electroporation Devices for Research Sales Growth
4.6 Middle East & Africa Irreversible Electroporation Devices for Research Sales Growth

5 AMERICAS

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5.1 Americas Irreversible Electroporation Devices for Research Sales by Country
5.1.1 Americas Irreversible Electroporation Devices for Research Sales by Country (2021-2026)
5.1.2 Americas Irreversible Electroporation Devices for Research Revenue by Country (2021-2026)
5.2 Americas Irreversible Electroporation Devices for Research Sales by Type (2021-2026)
5.3 Americas Irreversible Electroporation Devices for Research Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Irreversible Electroporation Devices for Research Sales by Region
6.1.1 APAC Irreversible Electroporation Devices for Research Sales by Region (2021-2026)
6.1.2 APAC Irreversible Electroporation Devices for Research Revenue by Region (2021-2026)
6.2 APAC Irreversible Electroporation Devices for Research Sales by Type (2021-2026)
6.3 APAC Irreversible Electroporation Devices for Research Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Irreversible Electroporation Devices for Research by Country
7.1.1 Europe Irreversible Electroporation Devices for Research Sales by Country (2021-2026)
7.1.2 Europe Irreversible Electroporation Devices for Research Revenue by Country

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(2021-2026)
7.2 Europe Irreversible Electroporation Devices for Research Sales by Type (2021-2026)
7.3 Europe Irreversible Electroporation Devices for Research Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Irreversible Electroporation Devices for Research by Country
  8.1.1 Middle East & Africa Irreversible Electroporation Devices for Research Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Irreversible Electroporation Devices for Research Revenue by Country (2021-2026)
8.2 Middle East & Africa Irreversible Electroporation Devices for Research Sales by Type (2021-2026)
8.3 Middle East & Africa Irreversible Electroporation Devices for Research Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Irreversible Electroporation Devices for Research

+357 96 030922
info@marketpublishers.com

10.3 Manufacturing Process Analysis of Irreversible Electroporation Devices for Research
10.4 Industry Chain Structure of Irreversible Electroporation Devices for Research

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Irreversible Electroporation Devices for Research Distributors
11.3 Irreversible Electroporation Devices for Research Customer

12 WORLD FORECAST REVIEW FOR IRREVERSIBLE ELECTROPORATION DEVICES FOR RESEARCH BY GEOGRAPHIC REGION

12.1 Global Irreversible Electroporation Devices for Research Market Size Forecast by Region
  12.1.1 Global Irreversible Electroporation Devices for Research Forecast by Region (2027-2032)
  12.1.2 Global Irreversible Electroporation Devices for Research Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Irreversible Electroporation Devices for Research Forecast by Type (2027-2032)
12.7 Global Irreversible Electroporation Devices for Research Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Harvard Bioscience
  13.1.1 Harvard Bioscience Company Information
  13.1.2 Harvard Bioscience Irreversible Electroporation Devices for Research Product Portfolios and Specifications
  13.1.3 Harvard Bioscience Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Harvard Bioscience Main Business Overview

+357 96 030922
info@marketpublishers.com

13.1.5 Harvard Bioscience Latest Developments
13.2 Eagle Harbor Technologies
13.2.1 Eagle Harbor Technologies Company Information
13.2.2 Eagle Harbor Technologies Irreversible Electroporation Devices for Research Product Portfolios and Specifications
13.2.3 Eagle Harbor Technologies Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Eagle Harbor Technologies Main Business Overview
13.2.5 Eagle Harbor Technologies Latest Developments
13.3 Vantage MedTech
13.3.1 Vantage MedTech Company Information
13.3.2 Vantage MedTech Irreversible Electroporation Devices for Research Product Portfolios and Specifications
13.3.3 Vantage MedTech Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Vantage MedTech Main Business Overview
13.3.5 Vantage MedTech Latest Developments
13.4 EnergyPulse Systems
13.4.1 EnergyPulse Systems Company Information
13.4.2 EnergyPulse Systems Irreversible Electroporation Devices for Research Product Portfolios and Specifications
13.4.3 EnergyPulse Systems Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 EnergyPulse Systems Main Business Overview
13.4.5 EnergyPulse Systems Latest Developments
13.5 LEROY Biotech
13.5.1 LEROY Biotech Company Information
13.5.2 LEROY Biotech Irreversible Electroporation Devices for Research Product Portfolios and Specifications
13.5.3 LEROY Biotech Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 LEROY Biotech Main Business Overview
13.5.5 LEROY Biotech Latest Developments
13.6 Montena Technology
13.6.1 Montena Technology Company Information
13.6.2 Montena Technology Irreversible Electroporation Devices for Research Product Portfolios and Specifications
13.6.3 Montena Technology Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

13.6.4 Montena Technology Main Business Overview
13.6.5 Montena Technology Latest Developments
13.7 Tonagena
13.7.1 Tonagena Company Information
13.7.2 Tonagena Irreversible Electroporation Devices for Research Product Portfolios and Specifications
13.7.3 Tonagena Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Tonagena Main Business Overview
13.7.5 Tonagena Latest Developments
13.8 Megaimpulse
13.8.1 Megaimpulse Company Information
13.8.2 Megaimpulse Irreversible Electroporation Devices for Research Product Portfolios and Specifications
13.8.3 Megaimpulse Irreversible Electroporation Devices for Research Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Megaimpulse Main Business Overview
13.8.5 Megaimpulse Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. Irreversible Electroporation Devices for Research Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Irreversible Electroporation Devices for Research Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Nanosecond-capable (<1 ?s)
Table 4. Major Players of Short Microsecond (1–10 ?s)
Table 5. Major Players of Conventional Microsecond (>10 ?s)
Table 6. Global Irreversible Electroporation Devices for Research Sales by Type (2021-2026) & (Units)
Table 7. Global Irreversible Electroporation Devices for Research Sales Market Share by Type (2021-2026)
Table 8. Global Irreversible Electroporation Devices for Research Revenue by Type (2021-2026) & ($ million)
Table 9. Global Irreversible Electroporation Devices for Research Revenue Market Share by Type (2021-2026)
Table 10. Global Irreversible Electroporation Devices for Research Sale Price by Type (2021-2026) & (K US$/Unit)
Table 11. Major Players of Up to 1.5 kV
Table 12. Major Players of Above 1.5–5 kV
Table 13. Major Players of Above 5 kV
Table 14. Global Irreversible Electroporation Devices for Research Sales by Maximum Output Voltage (2021-2026) & (Units)
Table 15. Global Irreversible Electroporation Devices for Research Sales Market Share by Maximum Output Voltage (2021-2026)
Table 16. Global Irreversible Electroporation Devices for Research Revenue by Maximum Output Voltage (2021-2026) & ($ million)
Table 17. Global Irreversible Electroporation Devices for Research Revenue Market Share by Maximum Output Voltage (2021-2026)
Table 18. Global Irreversible Electroporation Devices for Research Sale Price by Maximum Output Voltage (2021-2026) & (K US$/Unit)
Table 19. Major Players of Monophasic
Table 20. Major Players of Biphasic
Table 21. Major Players of Other
Table 22. Global Irreversible Electroporation Devices for Research Sales by Waveform Capability (2021-2026) & (Units)

+357 96 030922
info@marketpublishers.com

Table 23. Global Irreversible Electroporation Devices for Research Sales Market Share by Waveform Capability (2021-2026)
Table 24. Global Irreversible Electroporation Devices for Research Revenue by Waveform Capability (2021-2026) & ($ million)
Table 25. Global Irreversible Electroporation Devices for Research Revenue Market Share by Waveform Capability (2021-2026)
Table 26. Global Irreversible Electroporation Devices for Research Sale Price by Waveform Capability (2021-2026) & (K US$/Unit)
Table 27. Global Irreversible Electroporation Devices for Research Sale by Application (2021-2026) & (Units)
Table 28. Global Irreversible Electroporation Devices for Research Sale Market Share by Application (2021-2026)
Table 29. Global Irreversible Electroporation Devices for Research Revenue by Application (2021-2026) & ($ million)
Table 30. Global Irreversible Electroporation Devices for Research Revenue Market Share by Application (2021-2026)
Table 31. Global Irreversible Electroporation Devices for Research Sale Price by Application (2021-2026) & (K US$/Unit)
Table 32. Global Irreversible Electroporation Devices for Research Sales by Company (2021-2026) & (Units)
Table 33. Global Irreversible Electroporation Devices for Research Sales Market Share by Company (2021-2026)
Table 34. Global Irreversible Electroporation Devices for Research Revenue by Company (2021-2026) & ($ millions)
Table 35. Global Irreversible Electroporation Devices for Research Revenue Market Share by Company (2021-2026)
Table 36. Global Irreversible Electroporation Devices for Research Sale Price by Company (2021-2026) & (K US$/Unit)
Table 37. Key Manufacturers Irreversible Electroporation Devices for Research Producing Area Distribution and Sales Area
Table 38. Players Irreversible Electroporation Devices for Research Products Offered
Table 39. Irreversible Electroporation Devices for Research Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 40. New Products and Potential Entrants
Table 41. Market M&A Activity & Strategy
Table 42. Global Irreversible Electroporation Devices for Research Sales by Geographic Region (2021-2026) & (Units)
Table 43. Global Irreversible Electroporation Devices for Research Sales Market Share Geographic Region (2021-2026)

+357 96 030922
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Table 44. Global Irreversible Electroporation Devices for Research Revenue by Geographic Region (2021-2026) & ($ millions)
Table 45. Global Irreversible Electroporation Devices for Research Revenue Market Share by Geographic Region (2021-2026)
Table 46. Global Irreversible Electroporation Devices for Research Sales by Country/Region (2021-2026) & (Units)
Table 47. Global Irreversible Electroporation Devices for Research Sales Market Share by Country/Region (2021-2026)
Table 48. Global Irreversible Electroporation Devices for Research Revenue by Country/Region (2021-2026) & ($ millions)
Table 49. Global Irreversible Electroporation Devices for Research Revenue Market Share by Country/Region (2021-2026)
Table 50. Americas Irreversible Electroporation Devices for Research Sales by Country (2021-2026) & (Units)
Table 51. Americas Irreversible Electroporation Devices for Research Sales Market Share by Country (2021-2026)
Table 52. Americas Irreversible Electroporation Devices for Research Revenue by Country (2021-2026) & ($ millions)
Table 53. Americas Irreversible Electroporation Devices for Research Sales by Type (2021-2026) & (Units)
Table 54. Americas Irreversible Electroporation Devices for Research Sales by Application (2021-2026) & (Units)
Table 55. APAC Irreversible Electroporation Devices for Research Sales by Region (2021-2026) & (Units)
Table 56. APAC Irreversible Electroporation Devices for Research Sales Market Share by Region (2021-2026)
Table 57. APAC Irreversible Electroporation Devices for Research Revenue by Region (2021-2026) & ($ millions)
Table 58. APAC Irreversible Electroporation Devices for Research Sales by Type (2021-2026) & (Units)
Table 59. APAC Irreversible Electroporation Devices for Research Sales by Application (2021-2026) & (Units)
Table 60. Europe Irreversible Electroporation Devices for Research Sales by Country (2021-2026) & (Units)
Table 61. Europe Irreversible Electroporation Devices for Research Revenue by Country (2021-2026) & ($ millions)
Table 62. Europe Irreversible Electroporation Devices for Research Sales by Type (2021-2026) & (Units)
Table 63. Europe Irreversible Electroporation Devices for Research Sales by

+357 96 030922
info@marketpublishers.com

Application (2021-2026) & (Units)
Table 64. Middle East & Africa Irreversible Electroporation Devices for Research Sales by Country (2021-2026) & (Units)
Table 65. Middle East & Africa Irreversible Electroporation Devices for Research Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Irreversible Electroporation Devices for Research Sales by Type (2021-2026) & (Units)
Table 67. Middle East & Africa Irreversible Electroporation Devices for Research Sales by Application (2021-2026) & (Units)
Table 68. Key Market Drivers & Growth Opportunities of Irreversible Electroporation Devices for Research
Table 69. Key Market Challenges & Risks of Irreversible Electroporation Devices for Research
Table 70. Key Industry Trends of Irreversible Electroporation Devices for Research
Table 71. Irreversible Electroporation Devices for Research Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Irreversible Electroporation Devices for Research Distributors List
Table 74. Irreversible Electroporation Devices for Research Customer List
Table 75. Global Irreversible Electroporation Devices for Research Sales Forecast by Region (2027-2032) & (Units)
Table 76. Global Irreversible Electroporation Devices for Research Revenue Forecast by Region (2027-2032) & ($ millions)
Table 77. Americas Irreversible Electroporation Devices for Research Sales Forecast by Country (2027-2032) & (Units)
Table 78. Americas Irreversible Electroporation Devices for Research Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 79. APAC Irreversible Electroporation Devices for Research Sales Forecast by Region (2027-2032) & (Units)
Table 80. APAC Irreversible Electroporation Devices for Research Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 81. Europe Irreversible Electroporation Devices for Research Sales Forecast by Country (2027-2032) & (Units)
Table 82. Europe Irreversible Electroporation Devices for Research Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Middle East & Africa Irreversible Electroporation Devices for Research Sales Forecast by Country (2027-2032) & (Units)
Table 84. Middle East & Africa Irreversible Electroporation Devices for Research Revenue Forecast by Country (2027-2032) & ($ millions)
Table 85. Global Irreversible Electroporation Devices for Research Sales Forecast by

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Type (2027-2032) & (Units)
Table 86. Global Irreversible Electroporation Devices for Research Revenue Forecast by Type (2027-2032) & ($ millions)
Table 87. Global Irreversible Electroporation Devices for Research Sales Forecast by Application (2027-2032) & (Units)
Table 88. Global Irreversible Electroporation Devices for Research Revenue Forecast by Application (2027-2032) & ($ millions)
Table 89. Harvard Bioscience Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 90. Harvard Bioscience Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 91. Harvard Bioscience Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 92. Harvard Bioscience Main Business
Table 93. Harvard Bioscience Latest Developments
Table 94. Eagle Harbor Technologies Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 95. Eagle Harbor Technologies Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 96. Eagle Harbor Technologies Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 97. Eagle Harbor Technologies Main Business
Table 98. Eagle Harbor Technologies Latest Developments
Table 99. Vantage MedTech Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 100. Vantage MedTech Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 101. Vantage MedTech Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 102. Vantage MedTech Main Business
Table 103. Vantage MedTech Latest Developments
Table 104. EnergyPulse Systems Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 105. EnergyPulse Systems Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 106. EnergyPulse Systems Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 107. EnergyPulse Systems Main Business
Table 108. EnergyPulse Systems Latest Developments

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Table 109. LEROY Biotech Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 110. LEROY Biotech Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 111. LEROY Biotech Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 112. LEROY Biotech Main Business
Table 113. LEROY Biotech Latest Developments
Table 114. Montena Technology Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 115. Montena Technology Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 116. Montena Technology Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 117. Montena Technology Main Business
Table 118. Montena Technology Latest Developments
Table 119. Tonagena Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 120. Tonagena Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 121. Tonagena Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 122. Tonagena Main Business
Table 123. Tonagena Latest Developments
Table 124. Megaimpulse Basic Information, Irreversible Electroporation Devices for Research Manufacturing Base, Sales Area and Its Competitors
Table 125. Megaimpulse Irreversible Electroporation Devices for Research Product Portfolios and Specifications
Table 126. Megaimpulse Irreversible Electroporation Devices for Research Sales (Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2021-2026)
Table 127. Megaimpulse Main Business
Table 128. Megaimpulse Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Irreversible Electroporation Devices for Research
Figure 2. Irreversible Electroporation Devices for Research Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Irreversible Electroporation Devices for Research Sales Growth Rate 2021-2032 (Units)
Figure 7. Global Irreversible Electroporation Devices for Research Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Irreversible Electroporation Devices for Research Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Irreversible Electroporation Devices for Research Sales Market Share by Country/Region (2025)
Figure 10. Irreversible Electroporation Devices for Research Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Nanosecond-capable (<1 ?s)
Figure 12. Product Picture of Short Microsecond (1–10 ?s)
Figure 13. Product Picture of Conventional Microsecond (>10 ?s)
Figure 14. Global Irreversible Electroporation Devices for Research Sales Market Share by Type in 2026
Figure 15. Global Irreversible Electroporation Devices for Research Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Up to 1.5 kV
Figure 17. Product Picture of Above 1.5–5 kV
Figure 18. Product Picture of Above 5 kV
Figure 19. Global Irreversible Electroporation Devices for Research Sales Market Share by Maximum Output Voltage in 2026
Figure 20. Global Irreversible Electroporation Devices for Research Revenue Market Share by Maximum Output Voltage (2021-2026)
Figure 21. Product Picture of Monophasic
Figure 22. Product Picture of Biphasic
Figure 23. Product Picture of Other
Figure 24. Global Irreversible Electroporation Devices for Research Sales Market Share by Waveform Capability in 2026
Figure 25. Global Irreversible Electroporation Devices for Research Revenue Market

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Share by Waveform Capability (2021-2026)
Figure 26. Irreversible Electroporation Devices for Research Consumed in Universities and Research Institutes
Figure 27. Global Irreversible Electroporation Devices for Research Market: Universities and Research Institutes (2021-2026) & (Units)
Figure 28. Irreversible Electroporation Devices for Research Consumed in Hospitals and Academic Medical Centers
Figure 29. Global Irreversible Electroporation Devices for Research Market: Hospitals and Academic Medical Centers (2021-2026) & (Units)
Figure 30. Irreversible Electroporation Devices for Research Consumed in Other
Figure 31. Global Irreversible Electroporation Devices for Research Market: Other (2021-2026) & (Units)
Figure 32. Global Irreversible Electroporation Devices for Research Sale Market Share by Application (2025)
Figure 33. Global Irreversible Electroporation Devices for Research Revenue Market Share by Application in 2025
Figure 34. Irreversible Electroporation Devices for Research Sales by Company in 2025 (Units)
Figure 35. Global Irreversible Electroporation Devices for Research Sales Market Share by Company in 2025
Figure 36. Irreversible Electroporation Devices for Research Revenue by Company in 2025 ($ millions)
Figure 37. Global Irreversible Electroporation Devices for Research Revenue Market Share by Company in 2025
Figure 38. Global Irreversible Electroporation Devices for Research Sales Market Share by Geographic Region (2021-2026)
Figure 39. Global Irreversible Electroporation Devices for Research Revenue Market Share by Geographic Region in 2025
Figure 40. Americas Irreversible Electroporation Devices for Research Sales 2021-2026 (Units)
Figure 41. Americas Irreversible Electroporation Devices for Research Revenue 2021-2026 ($ millions)
Figure 42. APAC Irreversible Electroporation Devices for Research Sales 2021-2026 (Units)
Figure 43. APAC Irreversible Electroporation Devices for Research Revenue 2021-2026 ($ millions)
Figure 44. Europe Irreversible Electroporation Devices for Research Sales 2021-2026 (Units)
Figure 45. Europe Irreversible Electroporation Devices for Research Revenue

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2021-2026 ($ millions)
Figure 46. Middle East & Africa Irreversible Electroporation Devices for Research Sales 2021-2026 (Units)
Figure 47. Middle East & Africa Irreversible Electroporation Devices for Research Revenue 2021-2026 ($ millions)
Figure 48. Americas Irreversible Electroporation Devices for Research Sales Market Share by Country in 2025
Figure 49. Americas Irreversible Electroporation Devices for Research Revenue Market Share by Country (2021-2026)
Figure 50. Americas Irreversible Electroporation Devices for Research Sales Market Share by Type (2021-2026)
Figure 51. Americas Irreversible Electroporation Devices for Research Sales Market Share by Application (2021-2026)
Figure 52. United States Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 53. Canada Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 54. Mexico Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 55. Brazil Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 56. APAC Irreversible Electroporation Devices for Research Sales Market Share by Region in 2025
Figure 57. APAC Irreversible Electroporation Devices for Research Revenue Market Share by Region (2021-2026)
Figure 58. APAC Irreversible Electroporation Devices for Research Sales Market Share by Type (2021-2026)
Figure 59. APAC Irreversible Electroporation Devices for Research Sales Market Share by Application (2021-2026)
Figure 60. China Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 61. Japan Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 62. South Korea Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 63. Southeast Asia Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 64. India Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)

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Figure 65. Australia Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 66. China Taiwan Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 67. Europe Irreversible Electroporation Devices for Research Sales Market Share by Country in 2025
Figure 68. Europe Irreversible Electroporation Devices for Research Revenue Market Share by Country (2021-2026)
Figure 69. Europe Irreversible Electroporation Devices for Research Sales Market Share by Type (2021-2026)
Figure 70. Europe Irreversible Electroporation Devices for Research Sales Market Share by Application (2021-2026)
Figure 71. Germany Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 72. France Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 73. UK Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 74. Italy Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 75. Russia Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 76. Middle East & Africa Irreversible Electroporation Devices for Research Sales Market Share by Country (2021-2026)
Figure 77. Middle East & Africa Irreversible Electroporation Devices for Research Sales Market Share by Type (2021-2026)
Figure 78. Middle East & Africa Irreversible Electroporation Devices for Research Sales Market Share by Application (2021-2026)
Figure 79. Egypt Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 80. South Africa Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 81. Israel Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 82. Turkey Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 83. GCC Countries Irreversible Electroporation Devices for Research Revenue Growth 2021-2026 ($ millions)
Figure 84. Manufacturing Cost Structure Analysis of Irreversible Electroporation Devices

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for Research in 2026
Figure 85. Manufacturing Process Analysis of Irreversible Electroporation Devices for Research
Figure 86. Industry Chain Structure of Irreversible Electroporation Devices for Research
Figure 87. Channels of Distribution
Figure 88. Global Irreversible Electroporation Devices for Research Sales Market Forecast by Region (2027-2032)
Figure 89. Global Irreversible Electroporation Devices for Research Revenue Market Share Forecast by Region (2027-2032)
Figure 90. Global Irreversible Electroporation Devices for Research Sales Market Share Forecast by Type (2027-2032)
Figure 91. Global Irreversible Electroporation Devices for Research Revenue Market Share Forecast by Type (2027-2032)
Figure 92. Global Irreversible Electroporation Devices for Research Sales Market Share Forecast by Application (2027-2032)
Figure 93. Global Irreversible Electroporation Devices for Research Revenue Market Share Forecast by Application (2027-2032)

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