

Global iPSC-Derived Retinal Pigment Epithelial Cells Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global iPSC-Derived Retinal Pigment Epithelial Cells market size is expected to reach \$ 132 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).

iPSC-Derived Retinal Pigment Epithelial (RPE) Cells are RPE cell products generated from human induced pluripotent stem cells (iPSCs) through directed differentiation, maturation culture, and quality-controlled release processes. These products can be derived from healthy donors, disease-specific patients, isogenic gene-edited controls, or clinical-grade allogeneic/autologous sources. They are commonly supplied in multiple formats, including cryopreserved cells, cell-plus-media kits, mature monolayer cultures, Transwell or scaffold-based models, and cell suspensions or sheets intended for transplantation research. These cells express key RPE markers such as MITF, RPE65, PMEL17, and ZO-1, and exhibit functional characteristics including pigmentation, epithelial polarity, photoreceptor outer segment phagocytosis, and secretion of trophic factors. They are primarily used in dry age-related macular degeneration (AMD), inherited retinal diseases, ocular toxicity testing, drug screening, and development of cell replacement therapies. The overall gross margin is approximately 62%.

Demand for iPSC-derived RPE cells is driven by two main application areas. First, pharmaceutical companies and research institutions require more physiologically relevant in vitro models that better replicate the human retinal microenvironment for studying diseases such as dry AMD, retinitis pigmentosa, and Stargardt disease, as well as for screening drug candidates. Second, regenerative medicine developers are advancing RPE cell suspensions, cell sheets, and scaffold-based grafts, gradually transitioning clinical-grade iPSC-derived RPE from research models toward process development and early-stage clinical applications.

Competitive dynamics are shifting from basic RPE differentiation capability toward donor background selection, cellular maturity, consistency, and functional validation. Key procurement criteria include post-thaw viability, marker expression profiles, pigmentation quality, transepithelial electrical resistance (TEER), phagocytic activity, xeno-free and serum-free production systems, batch-to-batch reproducibility, and availability of a clear GMP scale-up pathway. Leading suppliers typically strengthen customer retention through standardized cell banks, optimized maturation media, integrated QC reports, and customized differentiation services.

Market opportunities are primarily concentrated in North America, Europe, and Japan, driven by ophthalmic drug development, stem cell technology platforms, and translational research in hospitals. In the short term, market expansion is constrained by long production cycles, high manufacturing costs, variability in functional maturation, and stringent regulatory requirements. In the long term, the development of allogeneic cell banks, HLA-matched lines, closed automated manufacturing systems, and integration with organoid and organ-on-chip platforms is expected to drive the transition from small-scale research reagents to high-value disease models and therapeutic intermediate products.

This report studies the global iPSC-Derived Retinal Pigment Epithelial Cells demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for iPSC-Derived Retinal Pigment Epithelial Cells, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of iPSC-Derived Retinal Pigment Epithelial Cells that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global iPSC-Derived Retinal Pigment Epithelial Cells total market, 2021-2032, (USD Million)

Global iPSC-Derived Retinal Pigment Epithelial Cells total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: iPSC-Derived Retinal Pigment Epithelial Cells total market, key domestic companies, and share, (USD Million)

Global iPSC-Derived Retinal Pigment Epithelial Cells revenue by player, revenue and market share 2021-2026, (USD Million)

Global iPSC-Derived Retinal Pigment Epithelial Cells total market by Type, CAGR, 2021-2032, (USD Million)

Global iPSC-Derived Retinal Pigment Epithelial Cells total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global iPSC-Derived Retinal Pigment Epithelial Cells market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FUJIFILM Cellular Dynamics, Axol Bioscience, STEMCELL Technologies, Applied StemCell, Tempo BioScience, AcceGen, Healios, Sumitomo Pharma, BlueRock Therapeutics, Opsi Therapeutics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world iPSC-Derived Retinal Pigment Epithelial Cells market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global iPSC-Derived Retinal Pigment Epithelial Cells Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global iPSC-Derived Retinal Pigment Epithelial Cells Market, Segmentation by Type:

Healthy Donor iPSC-RPE

Disease-Specific iPSC-RPE

Isogenic Genome-Edited iPSC-RPE

Autologous Patient-Specific iPSC-RPE

Allogeneic Cell Bank iPSC-RPE

Other iPSC-RPE

Global iPSC-Derived Retinal Pigment Epithelial Cells Market, Segmentation by Maturation Stage:

RPE Progenitor Cells

Immature Expandable RPE Cells

Maturing RPE Cells

Mature Functional RPE Cells

Polarized RPE Monolayer or Sheet

Other Maturation Stages

Global iPSC-Derived Retinal Pigment Epithelial Cells Market, Segmentation by Quality Grade:

Research Use Only Grade

Assay-Ready Grade

Custom Development Grade

GMP-Compatible Grade

Clinical Grade

Other Quality Grades

Global iPSC-Derived Retinal Pigment Epithelial Cells Market, Segmentation by Delivery Format:

Cryopreserved Cell Vials

Cell and Media Kits

Seeded Inserts or Plates

RPE Monolayer Sheets or Patches

Custom Differentiation Services

Other Delivery Formats

Global iPSC-Derived Retinal Pigment Epithelial Cells Market, Segmentation by Application:

Disease Modeling

Drug Discovery and Screening

Ocular Toxicology Testing

Gene Therapy and Genome Editing Validation

Cell Therapy Development

Retinal Biology Research

Companies Profiled:

FUJIFILM Cellular Dynamics

Axol Bioscience

STEMCELL Technologies

Applied StemCell

Tempo BioScience

AcceGen

Healios

Sumitomo Pharma

BlueRock Therapeutics

Opis Therapeutics

Cellio Therapeutics

Creative Bioarray

NeuraCell

Key Questions Answered

1. How big is the global iPSC-Derived Retinal Pigment Epithelial Cells market?
2. What is the demand of the global iPSC-Derived Retinal Pigment Epithelial Cells market?

3. What is the year over year growth of the global iPSC-Derived Retinal Pigment Epithelial Cells market?
4. What is the total value of the global iPSC-Derived Retinal Pigment Epithelial Cells market?
5. Who are the Major Players in the global iPSC-Derived Retinal Pigment Epithelial Cells market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 iPSC-Derived Retinal Pigment Epithelial Cells Introduction

1.2 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size & Forecast (2021 & 2025 & 2032)

1.3 World iPSC-Derived Retinal Pigment Epithelial Cells Total Market by Region (by Headquarter Location)

1.3.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Region (2021-2032), (by Headquarter Location)

1.3.2 United States Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032)

1.3.3 China Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032)

1.3.4 Europe Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032)

1.3.5 Japan Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032)

1.3.6 South Korea Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032)

1.3.7 ASEAN Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032)

1.3.8 India Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 iPSC-Derived Retinal Pigment Epithelial Cells Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Major Market Trends

2 DEMAND SUMMARY

2.1 World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

2.2 World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value by Region

2.2.1 World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value by Region (2021-2026)

2.2.2 World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Forecast by Region (2027-2032)

2.3 United States iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

2.4 China iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

2.5 Europe iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

2.6 Japan iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

2.7 South Korea iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

2.8 ASEAN iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

2.9 India iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032)

3 WORLD IPSC-DERIVED RETINAL PIGMENT EPITHELIAL CELLS COMPANIES COMPETITIVE ANALYSIS

3.1 World iPSC-Derived Retinal Pigment Epithelial Cells Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global iPSC-Derived Retinal Pigment Epithelial Cells Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for iPSC-Derived Retinal Pigment Epithelial Cells in 2025

3.2.3 Global Concentration Ratios (CR8) for iPSC-Derived Retinal Pigment Epithelial Cells in 2025

3.3 iPSC-Derived Retinal Pigment Epithelial Cells Company Evaluation Quadrant

3.4 iPSC-Derived Retinal Pigment Epithelial Cells Market: Overall Company Footprint Analysis

3.4.1 iPSC-Derived Retinal Pigment Epithelial Cells Market: Region Footprint

3.4.2 iPSC-Derived Retinal Pigment Epithelial Cells Market: Company Product Type Footprint

3.4.3 iPSC-Derived Retinal Pigment Epithelial Cells Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: iPSC-Derived Retinal Pigment Epithelial Cells Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: iPSC-Derived Retinal Pigment Epithelial Cells Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Comparison

4.2.1 United States VS China: iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based iPSC-Derived Retinal Pigment Epithelial Cells Companies and Market Share, 2021-2026

4.3.1 United States Based iPSC-Derived Retinal Pigment Epithelial Cells Companies, Headquarters (States, Country)

4.3.2 United States Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue, (2021-2026)

4.4 China Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue and Market Share, 2021-2026

4.4.1 China Based iPSC-Derived Retinal Pigment Epithelial Cells Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue, (2021-2026)

4.5 Rest of World Based iPSC-Derived Retinal Pigment Epithelial Cells Companies and Market Share, 2021-2026

4.5.1 Rest of World Based iPSC-Derived Retinal Pigment Epithelial Cells Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Overview by Type:

2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

- 5.2.1 Healthy Donor iPSC-RPE
- 5.2.2 Disease-Specific iPSC-RPE
- 5.2.3 Isogenic Genome-Edited iPSC-RPE
- 5.2.4 Autologous Patient-Specific iPSC-RPE
- 5.2.5 Allogeneic Cell Bank iPSC-RPE
- 5.2.6 Other iPSC-RPE

5.3 Market Segment by Type

- 5.3.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Type (2021-2026)
- 5.3.2 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Type (2027-2032)
- 5.3.3 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY MATURATION STAGE

6.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Overview by Maturation Stage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Maturation Stage

- 6.2.1 RPE Progenitor Cells
- 6.2.2 Immature Expandable RPE Cells
- 6.2.3 Maturing RPE Cells
- 6.2.4 Mature Functional RPE Cells
- 6.2.5 Polarized RPE Monolayer or Sheet
- 6.2.6 Other Maturation Stages

6.3 Market Segment by Maturation Stage

- 6.3.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Maturation Stage (2021-2026)
- 6.3.2 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Maturation Stage (2027-2032)
- 6.3.3 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Maturation Stage (2027-2032)

7 MARKET ANALYSIS BY QUALITY GRADE

7.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Overview by Quality Grade: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Quality Grade

7.2.1 Research Use Only Grade

7.2.2 Assay-Ready Grade

7.2.3 Custom Development Grade

7.2.4 GMP-Compatible Grade

7.2.5 Clinical Grade

7.2.6 Other Quality Grades

7.3 Market Segment by Quality Grade

7.3.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Quality Grade (2021-2026)

7.3.2 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Quality Grade (2027-2032)

7.3.3 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Quality Grade (2027-2032)

8 MARKET ANALYSIS BY DELIVERY FORMAT

8.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Overview by Delivery Format: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Delivery Format

8.2.1 Cryopreserved Cell Vials

8.2.2 Cell and Media Kits

8.2.3 Seeded Inserts or Plates

8.2.4 RPE Monolayer Sheets or Patches

8.2.5 Custom Differentiation Services

8.2.6 Other Delivery Formats

8.3 Market Segment by Delivery Format

8.3.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Delivery Format (2021-2026)

8.3.2 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Delivery Format (2027-2032)

8.3.3 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Delivery Format (2027-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

- 9.2.1 Disease Modeling
- 9.2.2 Drug Discovery and Screening
- 9.2.3 Ocular Toxicology Testing
- 9.2.4 Gene Therapy and Genome Editing Validation
- 9.2.5 Cell Therapy Development
- 9.2.6 Retinal Biology Research
- 9.3 Market Segment by Application
 - 9.3.1 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Application (2021-2026)
 - 9.3.2 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Application (2027-2032)
 - 9.3.3 World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Application (2021-2032)

10 COMPANY PROFILES

- 10.1 FUJIFILM Cellular Dynamics
 - 10.1.1 FUJIFILM Cellular Dynamics Details
 - 10.1.2 FUJIFILM Cellular Dynamics Major Business
 - 10.1.3 FUJIFILM Cellular Dynamics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.1.4 FUJIFILM Cellular Dynamics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.1.5 FUJIFILM Cellular Dynamics Recent Developments/Updates
 - 10.1.6 FUJIFILM Cellular Dynamics Competitive Strengths & Weaknesses
- 10.2 Axol Bioscience
 - 10.2.1 Axol Bioscience Details
 - 10.2.2 Axol Bioscience Major Business
 - 10.2.3 Axol Bioscience iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.2.4 Axol Bioscience iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.2.5 Axol Bioscience Recent Developments/Updates
 - 10.2.6 Axol Bioscience Competitive Strengths & Weaknesses
- 10.3 STEMCELL Technologies
 - 10.3.1 STEMCELL Technologies Details
 - 10.3.2 STEMCELL Technologies Major Business
 - 10.3.3 STEMCELL Technologies iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

- 10.3.4 STEMCELL Technologies iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
- 10.3.5 STEMCELL Technologies Recent Developments/Updates
- 10.3.6 STEMCELL Technologies Competitive Strengths & Weaknesses
- 10.4 Applied StemCell
 - 10.4.1 Applied StemCell Details
 - 10.4.2 Applied StemCell Major Business
 - 10.4.3 Applied StemCell iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.4.4 Applied StemCell iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Applied StemCell Recent Developments/Updates
 - 10.4.6 Applied StemCell Competitive Strengths & Weaknesses
- 10.5 Tempo BioScience
 - 10.5.1 Tempo BioScience Details
 - 10.5.2 Tempo BioScience Major Business
 - 10.5.3 Tempo BioScience iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.5.4 Tempo BioScience iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Tempo BioScience Recent Developments/Updates
 - 10.5.6 Tempo BioScience Competitive Strengths & Weaknesses
- 10.6 AcceGen
 - 10.6.1 AcceGen Details
 - 10.6.2 AcceGen Major Business
 - 10.6.3 AcceGen iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.6.4 AcceGen iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.6.5 AcceGen Recent Developments/Updates
 - 10.6.6 AcceGen Competitive Strengths & Weaknesses
- 10.7 Healios
 - 10.7.1 Healios Details
 - 10.7.2 Healios Major Business
 - 10.7.3 Healios iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.7.4 Healios iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Healios Recent Developments/Updates
 - 10.7.6 Healios Competitive Strengths & Weaknesses
- 10.8 Sumitomo Pharma

- 10.8.1 Sumitomo Pharma Details
- 10.8.2 Sumitomo Pharma Major Business
- 10.8.3 Sumitomo Pharma iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
- 10.8.4 Sumitomo Pharma iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
- 10.8.5 Sumitomo Pharma Recent Developments/Updates
- 10.8.6 Sumitomo Pharma Competitive Strengths & Weaknesses
- 10.9 BlueRock Therapeutics
 - 10.9.1 BlueRock Therapeutics Details
 - 10.9.2 BlueRock Therapeutics Major Business
 - 10.9.3 BlueRock Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.9.4 BlueRock Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.9.5 BlueRock Therapeutics Recent Developments/Updates
 - 10.9.6 BlueRock Therapeutics Competitive Strengths & Weaknesses
- 10.10 Opsi Therapeutics
 - 10.10.1 Opsi Therapeutics Details
 - 10.10.2 Opsi Therapeutics Major Business
 - 10.10.3 Opsi Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.10.4 Opsi Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.10.5 Opsi Therapeutics Recent Developments/Updates
 - 10.10.6 Opsi Therapeutics Competitive Strengths & Weaknesses
- 10.11 Cellio Therapeutics
 - 10.11.1 Cellio Therapeutics Details
 - 10.11.2 Cellio Therapeutics Major Business
 - 10.11.3 Cellio Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
 - 10.11.4 Cellio Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)
 - 10.11.5 Cellio Therapeutics Recent Developments/Updates
 - 10.11.6 Cellio Therapeutics Competitive Strengths & Weaknesses
- 10.12 Creative Bioarray
 - 10.12.1 Creative Bioarray Details
 - 10.12.2 Creative Bioarray Major Business
 - 10.12.3 Creative Bioarray iPSC-Derived Retinal Pigment Epithelial Cells Product and

Services

10.12.4 Creative Bioarray iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)

10.12.5 Creative Bioarray Recent Developments/Updates

10.12.6 Creative Bioarray Competitive Strengths & Weaknesses

10.13 NeuraCell

10.13.1 NeuraCell Details

10.13.2 NeuraCell Major Business

10.13.3 NeuraCell iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

10.13.4 NeuraCell iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026)

10.13.5 NeuraCell Recent Developments/Updates

10.13.6 NeuraCell Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 iPSC-Derived Retinal Pigment Epithelial Cells Industry Chain

11.2 iPSC-Derived Retinal Pigment Epithelial Cells Upstream Analysis

11.3 iPSC-Derived Retinal Pigment Epithelial Cells Midstream Analysis

11.4 iPSC-Derived Retinal Pigment Epithelial Cells Downstream Analysis

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key iPSC-Derived Retinal Pigment Epithelial Cells Players in 2025

Table 12. World iPSC-Derived Retinal Pigment Epithelial Cells Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global iPSC-Derived Retinal Pigment Epithelial Cells Company Evaluation Quadrant

Table 14. Head Office of Key iPSC-Derived Retinal Pigment Epithelial Cells Players

Table 15. iPSC-Derived Retinal Pigment Epithelial Cells Market: Company Product Type Footprint

Table 16. iPSC-Derived Retinal Pigment Epithelial Cells Market: Company Product Application Footprint

Table 17. iPSC-Derived Retinal Pigment Epithelial Cells Mergers & Acquisitions Activity

Table 18. United States VS China iPSC-Derived Retinal Pigment Epithelial Cells Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based iPSC-Derived Retinal Pigment Epithelial Cells Companies, Headquarters (States, Country)

Table 21. United States Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share (2021-2026)

Table 23. China Based iPSC-Derived Retinal Pigment Epithelial Cells Companies, Headquarters (Province, Country)

Table 24. China Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share (2021-2026)

Table 26. Rest of World Based iPSC-Derived Retinal Pigment Epithelial Cells Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share (2021-2026)

Table 29. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Type (2027-2032) & (USD Million)

Table 32. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Maturation Stage, (USD Million), 2021 & 2025 & 2032

Table 33. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Value by Maturation Stage (2021-2026) & (USD Million)

Table 34. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Maturation Stage (2027-2032) & (USD Million)

Table 35. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Quality Grade, (USD Million), 2021 & 2025 & 2032

Table 36. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Value by Quality Grade (2021-2026) & (USD Million)

Table 37. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Quality Grade (2027-2032) & (USD Million)

Table 38. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Delivery Format, (USD Million), 2021 & 2025 & 2032

Table 39. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Value by

Delivery Format (2021-2026) & (USD Million)

Table 40. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Delivery Format (2027-2032) & (USD Million)

Table 41. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 42. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Application (2021-2026) & (USD Million)

Table 43. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Application (2027-2032) & (USD Million)

Table 44. FUJIFILM Cellular Dynamics Basic Information, Manufacturing Base and Competitors

Table 45. FUJIFILM Cellular Dynamics Major Business

Table 46. FUJIFILM Cellular Dynamics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 47. FUJIFILM Cellular Dynamics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 48. FUJIFILM Cellular Dynamics Recent Developments/Updates

Table 49. FUJIFILM Cellular Dynamics Competitive Strengths & Weaknesses

Table 50. Axol Bioscience Basic Information, Manufacturing Base and Competitors

Table 51. Axol Bioscience Major Business

Table 52. Axol Bioscience iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 53. Axol Bioscience iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 54. Axol Bioscience Recent Developments/Updates

Table 55. Axol Bioscience Competitive Strengths & Weaknesses

Table 56. STEMCELL Technologies Basic Information, Manufacturing Base and Competitors

Table 57. STEMCELL Technologies Major Business

Table 58. STEMCELL Technologies iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 59. STEMCELL Technologies iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 60. STEMCELL Technologies Recent Developments/Updates

Table 61. STEMCELL Technologies Competitive Strengths & Weaknesses

Table 62. Applied StemCell Basic Information, Manufacturing Base and Competitors

Table 63. Applied StemCell Major Business

Table 64. Applied StemCell iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 65. Applied StemCell iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 66. Applied StemCell Recent Developments/Updates

Table 67. Applied StemCell Competitive Strengths & Weaknesses

Table 68. Tempo BioScience Basic Information, Manufacturing Base and Competitors

Table 69. Tempo BioScience Major Business

Table 70. Tempo BioScience iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 71. Tempo BioScience iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 72. Tempo BioScience Recent Developments/Updates

Table 73. Tempo BioScience Competitive Strengths & Weaknesses

Table 74. AcceGen Basic Information, Manufacturing Base and Competitors

Table 75. AcceGen Major Business

Table 76. AcceGen iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 77. AcceGen iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 78. AcceGen Recent Developments/Updates

Table 79. AcceGen Competitive Strengths & Weaknesses

Table 80. Healios Basic Information, Manufacturing Base and Competitors

Table 81. Healios Major Business

Table 82. Healios iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 83. Healios iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 84. Healios Recent Developments/Updates

Table 85. Healios Competitive Strengths & Weaknesses

Table 86. Sumitomo Pharma Basic Information, Manufacturing Base and Competitors

Table 87. Sumitomo Pharma Major Business

Table 88. Sumitomo Pharma iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 89. Sumitomo Pharma iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 90. Sumitomo Pharma Recent Developments/Updates

Table 91. Sumitomo Pharma Competitive Strengths & Weaknesses

Table 92. BlueRock Therapeutics Basic Information, Manufacturing Base and Competitors

Table 93. BlueRock Therapeutics Major Business

Table 94. BlueRock Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services

Table 95. BlueRock Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 96. BlueRock Therapeutics Recent Developments/Updates
Table 97. BlueRock Therapeutics Competitive Strengths & Weaknesses
Table 98. Opsi Therapeutics Basic Information, Manufacturing Base and Competitors
Table 99. Opsi Therapeutics Major Business
Table 100. Opsi Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
Table 101. Opsi Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 102. Opsi Therapeutics Recent Developments/Updates
Table 103. Opsi Therapeutics Competitive Strengths & Weaknesses
Table 104. Cellio Therapeutics Basic Information, Manufacturing Base and Competitors
Table 105. Cellio Therapeutics Major Business
Table 106. Cellio Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
Table 107. Cellio Therapeutics iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 108. Cellio Therapeutics Recent Developments/Updates
Table 109. Cellio Therapeutics Competitive Strengths & Weaknesses
Table 110. Creative Bioarray Basic Information, Manufacturing Base and Competitors
Table 111. Creative Bioarray Major Business
Table 112. Creative Bioarray iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
Table 113. Creative Bioarray iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 114. Creative Bioarray Recent Developments/Updates
Table 115. Creative Bioarray Competitive Strengths & Weaknesses
Table 116. NeuraCell Basic Information, Manufacturing Base and Competitors
Table 117. NeuraCell Major Business
Table 118. NeuraCell iPSC-Derived Retinal Pigment Epithelial Cells Product and Services
Table 119. NeuraCell iPSC-Derived Retinal Pigment Epithelial Cells Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 120. NeuraCell Recent Developments/Updates
Table 121. NeuraCell Competitive Strengths & Weaknesses
Table 122. Global Key Players of iPSC-Derived Retinal Pigment Epithelial Cells Upstream (Raw Materials)
Table 123. Global iPSC-Derived Retinal Pigment Epithelial Cells Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. iPSC-Derived Retinal Pigment Epithelial Cells Picture

Figure 2. World iPSC-Derived Retinal Pigment Epithelial Cells Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World iPSC-Derived Retinal Pigment Epithelial Cells Total Revenue (2021-2032) & (USD Million)

Figure 4. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company iPSC-Derived Retinal Pigment Epithelial Cells Revenue (2021-2032) & (USD Million)

Figure 13. iPSC-Derived Retinal Pigment Epithelial Cells Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 16. World iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Market Share by Region (2021-2032)

Figure 17. United States iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 18. China iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 23. India iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of iPSC-Derived Retinal Pigment Epithelial Cells by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for iPSC-Derived Retinal Pigment Epithelial Cells Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for iPSC-Derived Retinal Pigment Epithelial Cells Markets in 2025

Figure 27. United States VS China: iPSC-Derived Retinal Pigment Epithelial Cells Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: iPSC-Derived Retinal Pigment Epithelial Cells Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Type in 2025

Figure 31. Healthy Donor iPSC-RPE

Figure 32. Disease-Specific iPSC-RPE

Figure 33. Isogenic Genome-Edited iPSC-RPE

Figure 34. Autologous Patient-Specific iPSC-RPE

Figure 35. Allogeneic Cell Bank iPSC-RPE

Figure 36. Other iPSC-RPE

Figure 37. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Type (2021-2032)

Figure 38. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Maturation Stage, (USD Million), 2021 & 2025 & 2032

Figure 39. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Maturation Stage in 2025

Figure 40. RPE Progenitor Cells

Figure 41. Immature Expandable RPE Cells

Figure 42. Maturing RPE Cells

Figure 43. Mature Functional RPE Cells

Figure 44. Polarized RPE Monolayer or Sheet

Figure 45. Other Maturation Stages

Figure 46. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Maturation Stage (2021-2032)

Figure 47. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Quality Grade, (USD Million), 2021 & 2025 & 2032

Figure 48. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Quality Grade in 2025

Figure 49. Research Use Only Grade

Figure 50. Assay-Ready Grade

Figure 51. Custom Development Grade

Figure 52. GMP-Compatible Grade

Figure 53. Clinical Grade

Figure 54. Other Quality Grades

Figure 55. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Quality Grade (2021-2032)

Figure 56. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Delivery Format, (USD Million), 2021 & 2025 & 2032

Figure 57. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Delivery Format in 2025

Figure 58. Cryopreserved Cell Vials

Figure 59. Cell and Media Kits

Figure 60. Seeded Inserts or Plates

Figure 61. RPE Monolayer Sheets or Patches

Figure 62. Custom Differentiation Services

Figure 63. Other Delivery Formats

Figure 64. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Delivery Format (2021-2032)

Figure 65. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Application in 2025

Figure 67. Disease Modeling

Figure 68. Drug Discovery and Screening

Figure 69. Ocular Toxicology Testing

Figure 70. Gene Therapy and Genome Editing Validation

Figure 71. Cell Therapy Development

Figure 72. Retinal Biology Research

Figure 73. World iPSC-Derived Retinal Pigment Epithelial Cells Market Size Market Share by Application (2021-2032)

Figure 74. iPSC-Derived Retinal Pigment Epithelial Cells Industrial Chain

Figure 75. Methodology

Figure 76. Research Process and Data Source

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