

# Cell Regeneration Medicine Market Poised for Breakthrough Growth | DataM Intelligence

*Cell regeneration medicine is set to surge globally—from \$34B to \$90.1B by 2031—with Japan's iPS leadership and U.S. breakthroughs powering innovation.*

NEW JERSEY, NJ, UNITED STATES, July 24, 2025 /EINPresswire.com/ -- [Cell regeneration medicine](#) comprising stem cell, tissue engineering, and gene-cell hybrid therapies, it is gaining traction across chronic and degenerative diseases such as cancer, neurodegeneration, and cardiovascular

disorders. According to DataM Intelligence analysis, the global market is poised to rise significantly over the coming decade, underpinned by accelerating clinical development, reduced manufacturing costs, and regulatory support.

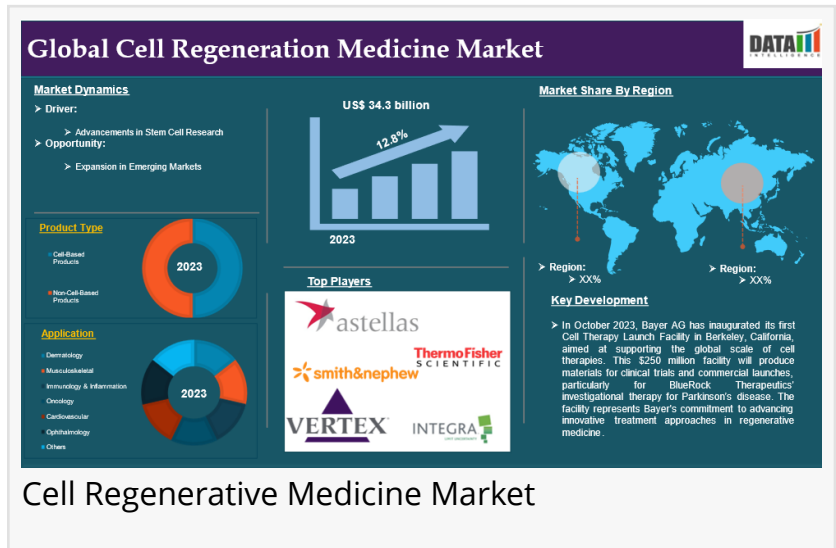
## Cell Regenerative Medicine Market Outlook & Growth Drivers

Based on DataM Intelligence analysis, global cell regeneration medicine is forecast to jump from approximately \$34 billion in 2023 to about \$90.1 billion by 2031, reflecting a CAGR of roughly 12.8%. Oncology represents the fastest-growing therapeutic domain, with immune cell and CAR-T approaches leading adoption. North America holds a dominant share near 40%, while Asia-Pacific—particularly Japan—records the fastest growth trajectory, driven by aging populations and supportive policy frameworks.

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Key growth drivers include:

- Rising chronic disease prevalence and aging demographics globally.
- Regulatory acceleration via breakthrough, Sakigake, and conditioned approvals.
- Technology advances in iPS cell production, bioink for tissue engineering, and automated



biomanufacturing.

- Increasing public-private investment and infrastructure buildup—especially in Japan.

## Innovation Landscape & Key Players

### Cell-Based Products Lead

Cell-based therapies—autologous and allogeneic—form the backbone of the market, benefiting from advances in cryopreservation, potency assays, and scalable bioreactor.

### Oncology as Frontier Use Case

Oncology therapies, including CAR-T and TIL, are dominating pipeline developments and driving both clinical and commercial momentum.

Major players shaping the market include Pfizer, Johnson & Johnson, Novartis, Roche, Medtronic, Astellas, and Fujifilm Cellular Dynamics, all expanding regenerative medicine portfolios. In Japan, universities, domestic biotech firms, and corporate CDMOs are building GMP facilities to support scalable cell therapy production.

### Region Spotlight—Japan

#### Advances in iPS Manufacturing

In April 2025, Kyoto University's CiRA Foundation inaugurated its "Yanai my iPS Factory" in Osaka, where automated iPS cell production will reduce cost and scale availability of autologous therapies for cardiac, neural, and rare disease applications.

#### Regulatory Reform

Japan's Ministry of Health, Labour and Welfare stated in March 2025 that it would refine its conditional approval pathways under the Sakigake framework, aiming to address slowed post marketing evaluation and streamline regenerative medicine commercialization.

#### Latest News from US (2025)

In April 2025, the FDA approved Zevaskyn, the first cell-based gene therapy for recessive dystrophic epidermolysis bullosa (RDEB)—marking a milestone in regenerative gene medicine. The approval is expected to generate peak annual revenue of over \$400 million by 2034. Meanwhile, shift in U.S. policy sentiment is influencing the regenerative cell space positively: stem cell innovators like Mesoblast and Capricor Therapeutics are seeing renewed investor interest amid a more favorable regulatory tone toward cell therapy approvals.

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## Latest News from Japan (2025)

In March 2025, Japan's MHLW announced a planned overhaul of conditional approval mechanisms for regenerative products, citing underperformance by some previously conditionally approved therapies and calling for faster alignment with clinical standards.

And in July 2024, SanBio received conditional marketing approval for Vandefitemcel (AKUUGO)—a human somatic stem cell product for treating chronic motor paralysis after traumatic brain injury. Commercial rollout is expected between February and April 2025 following additional quality assessments.

## Challenges & Opportunities in Cell Regenerative Medicine Market

### Challenges

- High treatment costs remain a barrier; accessibility outside major centers lags.
- Regulatory complexity and slow post-marketing evaluation pose hurdles in commercialization.
- Scaling manufacturing without quality compromise remains complex.

### Opportunities

- Innovative delivery of iPS, CAR-T, and bioengineered tissues via Japan's new manufacturing hubs.
- Collaboration between academia, industry, and government to build robust infrastructure and refine regulatory frameworks.
- Mixed modal therapies—gene-cell constructs and organoids—targeting rare and intractable disease.

### Conclusion

According to DataM Intelligence, the cell regeneration medicine market is entering a transformative phase—spurred by innovation in iPS technologies, oncology-led cell therapy breakthroughs, and policy momentum in the U.S. and Japan. With patient-specific products becoming cost-feasible and approvals accelerating, the decade ahead promises to reposition cell regeneration medicine from experimental niche toward mainstream standard of care.

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□ Competitive Landscape

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