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Global Space Breeding Market Growth (Status and Outlook) 2026-2032

https://marketpublishers.com/r/G99A978F56CEEN.html
Date: October 2026
Pages: 86
Price: US$ 3,660.00 (Single User License)
ID: G99A978F56CEEN

Abstracts

The global Space Breeding market size is predicted to grow from US$ 524 million in 2025 to US$ 1187 million in 2032; it is expected to grow at a CAGR of 12.4% from 2026 to 2032.

Space breeding, also known as aerospace breeding or space mutation breeding, is an agricultural technology that uses the unique environment of space to induce gene mutations in plant seeds, which are then returned to Earth for selection and cultivation of new varieties. This technology combines aerospace technology, biotechnology, and agricultural breeding, using the space environment to induce mutations in the seed's genetic material, such as chromosome deletions, duplications, and translocations. The process includes three stages: space travel, return to Earth, and multi-generational selection. The mutation rate is 3-4 times higher than that of conventional mutation breeding, and the breeding cycle can be shortened to about 4 years. Since China first conducted experiments carrying rice and pepper seeds in space in 1987, this technology has been expanded to various crops such as grains, vegetables, flowers, forage grasses, and medicinal herbs. Space breeding is essentially based on self-genetic mutation, is non-GMO, and has high safety, making it an effective way to create new germplasm and improve crop traits in modern breeding.

Space breeding has broad prospects; as an "evolutionary accelerator," it will provide new possibilities for agricultural transformation, food security, and the space economy. With the development of space technology, future breeding will rapidly expand in both breadth and depth. On the one hand, by building a specialized breeding system through space stations and combining high-throughput omics technologies to precisely analyze mutation mechanisms, targeted screening of high-yield, stress-resistant, and high-quality traits can be achieved, significantly improving efficiency. On the other hand, this

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technology is expected to cultivate more super crops that are salt-tolerant, flood-resistant, and disease-resistant, in order to address global climate change and resource shortages and reduce pesticide dependence. Furthermore, space breeding supports deep space exploration, such as lunar/Mars agricultural experiments, laying the foundation for human settlement on other planets. Through international cooperation and sharing of experience, China is expected to continue to lead this field, contributing to global food security and sustainable development.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Space Breeding landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Space Breeding portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Space Breeding market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Space Breeding and breaks down the forecast by Technical Approaches, 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 Space Breeding.

This report presents a comprehensive overview, market shares, and growth opportunities of Space Breeding market by product type, application, key players and key regions and countries.

Segmentation by Technical Approaches:

Space Mutation Breeding

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Space Embryo Culture

Segmentation by Research Subjects:

Plants

Microorganisms

Animals

Segmentation by Research Locations:

Space-to-ground transport

On-orbit research

Segmentation by Application:

National Research Institutions

Commercial Companies

Others

This report also splits the market by region:

Americas

United States

Canada

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Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

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GCC Countries

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

Lifeasible

SpaceAgri

Shenzhou Lupeng Agricultural Technology Co., Ltd.,

Hubei Jinguang Agricultural Technology Co., Ltd.

Tyee Space Biotechnology

Chang'e Bio Holeings

Hainan Nongle Nanfan Technology Co., Ltd.

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