

Plant Biotechnology - Company Evaluation Report, 2025

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Report description:

The Plant Biotechnology Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Plant Biotechnology. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 140 companies, of which the Top 15 Plant Biotechnology Companies were categorized and recognized as quadrant leaders. The plant biotechnology market is a dynamic and rapidly growing sector that leverages advanced genetic techniques, synthetic biology innovations, and microbial solutions to boost agricultural productivity, sustainability, and industrial applications. This market plays a critical role in tackling global challenges such as climate change, pest resistance, soil degradation, and food security. Plant biotechnology spans several domains, including biotech seeds and traits, bio-based crop protection and nutrition solutions, and synthetic biology-driven products. As the demand for high-yield, climate-resilient crops and sustainable agricultural inputs continues to rise, plant biotechnology is becoming a key driver of transformation in modern agriculture and related industries.

The market is primarily driven by the increasing demand for high-yield, stress-tolerant crops, which are crucial to meeting the growing global food needs amid escalating climate uncertainties. The adoption of biotech seeds and traits, especially stacked traits that combine insect resistance and herbicide tolerance, has surged in major agricultural economies. Beyond agriculture, plant biotechnology is gaining significant traction in industrial sectors, such as bio-based pharmaceuticals, biofuels, and food enzymes, further expanding its market reach.

The 360 Quadrant maps the Plant Biotechnology companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Plant Biotechnology quadrant. The top criteria for product footprint evaluation included By TECHNOLOGY (Genetic Engineering, Genome Editing, Tissue Culture, Synthetic Biology, Other Technologies), By PRODUCT TYPE (Crop Protection & Nutrition Solution Products, Biotech Seeds & Traits, Synthetic Biology-enabled Products), By CROP TYPE (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, Other Crop Types) and By END USER (Seed Companies, Agricultural Input Suppliers, Food & Beverage Industry, Biofuel & Biochemical Companies, Pharmaceutical & Biopharma Companies, Government & Research Institutes).

Key Players

Key players in the Plant Biotechnology market include major global corporations and specialized innovators such as Bayer AG (Germany), Corteva Agriscience (US), Syngenta (Switzerland), BASF SE (Germany), KWS SAAT SE & Co. KGaA (Germany), FMC Corporation (US), UPL (India), Sumitomo Chemical Co., Ltd. (Japan), Certis Biologicals (US), Limagrain (France), DLF Seeds A/S

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(Denmark), Nufarm (Australia), Pro Farm Group (US), STK Bio-AG Technologies (Israel), and Vestaron Corporation (US). These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top 3 Companies

Bayer AG

Bayer is a global life science company and a recognized leader in healthcare and nutrition. The company operates through three main business segments: Pharmaceuticals, Crop Science, and Consumer Health. Its Crop Science division is one of the world's leading agricultural enterprises, offering solutions in crop protection, seeds, and digital farming. The company uses advanced technologies-such as genetic modification and precision breeding-to develop crops that meet the evolving needs of global agriculture.

Syngenta

Syngenta is a global leader in the crop protection industry, with operations in 150 subsidiaries worldwide. Headquartered in Shanghai, China, with administrative offices in Switzerland, Syngenta operates through four main divisions: Syngenta Crop Protection (Switzerland), Syngenta Seeds (United States), ADAMA (Israel), and Syngenta Group China. The company is committed to transforming agriculture through science-driven innovation, aiming to boost productivity, enhance food quality, combat climate change, and support environmental restoration.

BASF SE

BASF SE is a global chemical company engaged in the production, marketing, and sale of chemicals, plastics, crop protection products, and various performance materials. Its product portfolio includes solvents, paints, food additives, fungicides, herbicides, and specialty chemicals. The company operates through 11 divisions grouped into seven business segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care, Agricultural Solutions, and Others.

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