

## SIGNIFICANT ADVANCEMENT IN AGRICULTURAL BIOTECH IN THE ERA OF CLIMATE CHANGE

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### ABSTRACT

*Tropical areas, especially impoverished countries, are more impacted than temperate ones by greater temperature fluctuations and regime changes. When it rains, the demand for water rises. In addition, while mild warming benefits crops in mid and high latitudes, even moderate warming decreases the yields in the low latitudes in the seasonally dry regions. This has an effect not only on everyone in the globe, but also on the rest of the ecosystem. There are so many issues that remain a tough issue with how to prevent and combat climate change. In developing nations which are highly populated and prone to droughts, food insecurity may be especially prevalent. Total worldwide food production capacity is expected to grow if the average region's temperature rises from 1 to 3°C, however the world's food safety is under danger from severe weather and socioeconomic problems. It is notable that comprehensive national research and does not take possible adaptation methods into account the Intergovernmental Panel on Climate Change's gloomy predictions of low latitude agricultural output. On the other hand, the effect on food safety is significant. Food safety in all four dimensions is impacted. Climate change will raise and aggravate the burden for poor nations already dealing with acute food shortages.*

**KEYWORDS:** *Agricultural, Biotechnology, Climate Change, Food Security, Greenhouse, Plants.*

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