



## Mutations, In Vitro and Molecular Techniques for Environmentally Sustainable Crop Improvement

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# **Mutations, In Vitro and Molecular Techniques for Environmentally Sustainable Crop Improvement**

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During the last thirty years, most increases in agricultural production were achieved through high input agriculture in areas with fertile soils and sufficient water. Intensive methods of production with high levels of nitrogen fertilizer and pesticides were often accompanied by environmental degradation and in some instances by pollution of the food supply. However, rapid population growth has also led to increasing use of marginal lands, where adverse soil and climatic conditions are serious constraints to food production. These areas are even more sensitive to ecological destabilization. Environmentally sound systems of food production and land use are essential for meeting the food security needs of developing countries. To do this, greater genetic variability is needed within the best crop genotypes available for the areas in need coupled with better management practices and crop rotations. These requirements can only be realized if suitable crop varieties are bred. These should be varieties with a much shorter growing period, suitable for rotation, increased tolerance or resistance to diseases and pests as well as to drought and salinity and other adverse soil and climatic conditions.



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