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### **New Directions of Microclonal in-Vitro Plant Propagation**

**Abstract:** Microclonal in-vitro propagation of plants is a forward-looking direction of plant biotechnology solving the problem of mass production of healthy planting material. The method has a hundred-year history of development and is being improved up till now. Along with the technologies of plant propagation on solid nutrient media that have already become traditional, the technologies of propagation in various types of bioreactors have emerged in recent years, which made it possible to bring in-vitro plant propagation to the industrial level. The technology of autotrophic microclonal propagation of plants is of great interest, as it expands the perspectives of the agro-industrial complex. This method ensures a high reproduction rate and production of plants with high adaptive properties.