

Special Issue

New Technologies in Agricultural and Plant Biotechnology

Message from the Guest Editors

Nanotechnology has recently been used as a tool in industries including agriculture, industry, and medicine. These composites have improved the plant pathogen defense, drought resistance, salt resistance, and heavy-metal resistance in agricultural fields. In addition, nanotechnology was employed to make herbicides and insecticides more effective, enabling the use of lower dosages while lowering pollution and cleaning up already-existing contaminants. Numerous agricultural uses, such as tissue culture and antibacterial compounds, depend on nanotechnology. In addition to the scientific novelty, technologies in which new tools sometimes reflect fundamentally new methods of genome alteration offer lawmakers a fresh issue by providing genetically modified creatures new meanings in both the biochemical/molecular and legal senses (GMOs). Although all of these techniques use biotechnology to develop new plant types, it is debatable whether they all produce GMOs as defined by the law at the moment. The responsibility of remarkable weight for the authority is the official risk evaluation of these technologies.

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Deadline for manuscript submissions

closed (1 September 2023)



BioTech

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.8
Indexed in PubMed



mdpi.com/si/141678

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