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Effects of Silver and CuO on the Plant-Soil Ecosystem

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ABSTRACT

Nanobiotechnology accelerated almost every sector of agriculture sciences and crop research. It is well understood that the use of nanobacteria for the scientific and agriculture field enables a lot of advantages over conventional methods. Biofertilizers based on nanotechnology are quite useful for plant growth and developments however according to various studies, the performance, and activity of nanoparticles are very different according to their amount and type. also, their non-destructive biological properties and ability to survive in the environment are still in question and should be given special attention. Therefore, the study of the toxicity effects of nanoparticles is still in the early stages, and further studies are required. On the other hand, Investigations, indicate toxicity of nanomaterials is an emerging serious issue. Microbial community and soil health which directly or indirectly related to human health and wellbeing must be protected from the unnecessary deposition of nanomaterials it should be noted increased applications and usage quantity also lead to a threat of release of NPs to the environment, therefore, scientists, industry, and environmentalists must work together to ensure the safe release of materials into the environment Because of the uncontrolled and irregular expansion of nanoparticles can have irreversible effects on the environment

Keywords: Silver,CuO Soil, Plants, Ecosystem