

Seeds Treatment and Nanotechnology -Review

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Abstract – Sustainable future in agriculture, encourage us to find more environmentally ecofriendly alternatives,the seed is a fundamental component of sustainable production ,as approximately 90% of our food crops are grow from seed.

Agriculture is facing challenges due to changing environmental conditions such as salinity,heavy metal accumulation in soil,weeds and climate changes .etc....all of these factors affect seed germination leading to abnormal seed dormancy,non-viability ,reduce water absorption in addition to seedling development,and crop production.

Seed treatment by agrochemical play a role in preserving seed quality against biotic and a biotic stresses,they often have negative impacts on the environment.As a result ,adoption green chemistry technologies(Nanoagrochemicls) is an adequate solution.

In this article,we will attempt to spot light on various used for seed treatment.Additionally,we will examine the advantages and disadvantages of each method,with the objective of applying seed treatment techniques and assessing their effectiveness in promoting agro-production development,particularly in African countries.

Furthermore,we will explore the adoption of nanotechnology as a solution to improve the quality of agricultural products.

Keywords-Sustainable, Agriculture, Seeds, Nanoagrochemicals, Crops, Treatment, Production Agrochemical, Green, Nanotechnology, Environment