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Bio-fertilizers

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ABSTRACT Bio-fertilizers are the living microbes that inhabit the root zone or the interior plant parts. These microbes promote growth, productivity, and physiological properties of plant either directly or indirectly and hence, are also said as plant growth-promoting rhizobacteria. Biofertilizers increase the growth as well as development of plant by amassing the accessibility of mineral nutrients, biological nitrogen fixation, solubilizing phosphorus, and production of growth hormones. Moreover, these microbes and their by-products are eco-friendly organic agro-input that increased the sustainability as well as soil health and thus are considered as the best alternative to synthetic fertilizers. They are effective in very less quantity, have faster breakdown process, and are less likely to make resistance by the pathogens and other kinds of pests. The use of biofertilizers in agrarian practices overcomes the use of chemical fertilizers, which have harmful impacts on all kinds of living beings and depreciate soil health.

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