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Significance of Biofertilizer and their Potent Role on Wheat Yield †

Halima M. Sneha Unnikrishnan [1], Karthikeyan Ramalingam [1,*]

[1] School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, GST Road, Vandalur, Chennai -600 048, India
* Correspondence: karthikeyan.sls@crescent.education;
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Abstract: Across the globe, in both developed and developing countries, wheat provides fundamental support for all other important food. However, due to climatic change, environmental stress, soil infertility, etc., wheat is affected. To overcome these issues, biofertilizers are recommended. They are eco-friendly, cost-efficient, harmless, and affordable by marginal farmers too when compared with chemical fertilizers. Biofertilizers are made up of living microorganisms that colonize the rhizosphere to promote plant yield and prevent plant disease. Pesticide degrading strains of bacteria are emerging as the best technique to overcome the negative effect of pesticides. Due to insufficient awareness among farmers, agricultural land and crops are cultivated through chemical fertilizers, which became a major threat to human health and agriculture. On the other hand, the government is implementing several measures in marketing biofertilizers for the betterment of agriculture and human health. This article has covered the significance of living microorganisms as biofertilizers, different combinations of biofertilizers on wheat yield, government intervention, and future perspectives of biofertilizers.

Keywords: wheat; biofertilizer; chemical fertilizer; sustainable agriculture; pesticide remediation.

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Conflicts of Interest

The authors declare no conflict of interest.