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More than a century has passed since the first bioformulations were introduced to the market. But there is still much to be done, explored and developed. Though bioformulations offer green alternatives and are important for sustainable agriculture, they make up only a small fraction of the total additions used to enhance crop yields or protect them from pests. There is a great need to develop bioformulations that can promote confidence among end users; accordingly, it

is imperative that bioformulations to replace chemicals be reliable and overcome the shortcomings of the past. Bioformulations: for Sustainable Agriculture discusses all the issues related to the current limitations and future development of bioformulations. It examines in detail those bioformulations that include biofertilizers and biopesticides (also commonly known as bioinoculants), presenting a global picture of their development. Further chapters address diverse microbes that are already being or could be used as bioformulations. The book also discusses the techniques, tools and other additions required to establish bioformulations as trustworthy and global solutions.

It assesses the types of bioformulations currently available on the market, while also considering the future roles of bioformulations, including the reclamation of marginal and polluted soils. Further, it discusses the current legislation and much-needed amendments. Overall the book provides a comprehensive outlook on the status quo of bioformulations and the future approaches needed to improve them and achieve sustainable agriculture and food security without sacrificing the quality of soils. This will be extremely important in offering chemical-free foods and a better future for generations to come.

Plants form mutualistic

association with various microorganisms, particularly in the rhizosphere region. The association benefits both the partners in a number of ways. A single plant can support the growth of diverse microbes and in reciprocation these microbes help the plant in several ways. A great deal of knowledge is now available on the mechanisms of action of plant growth promoting microbes in forming association with their partner plant and benefitting it. With ever increasing population and to achieve food security it has become utmost necessary to utilize these friendly microbes to enhance the crop yield and quality in an ecofriendly and sustainable manner. We already

know about the huge negative impact of chemicals used in agriculture on the humans and the ecosystems as whole. 'Plant Microbes Symbiosis – Applied Facets' provides a comprehensive knowledge on practical, functional and purposeful utility of plant-microbe interactions. The book reviews the utilization of beneficial microbes for crop yield enhancement and protection against diseases caused by phytopathogens and nutrient deficiencies. The tome also reviews the utility of plant growth promoting microbes in helping the plants to deal with abiotic stresses imposed by climate change and anthropogenic activities. The book showcases how plant-microbe interactions

are or can be utilized for reclamation of stressed soils and degradation of pollutants in a most effective and environment friendly manner. It also ascertains the reasons for the below par performance of the microbial based inoculants. The utilization of biotechnological tools for development of next generation bioformulations to combat the new challenges and overcome past hurdles has been discussed. This wonderful association between plants and microbes if used properly will not only enhance the crop yields and reclaim barren lands but also make our planet a better place to live on for all of its habitants.

Plant microbe interaction is a

complex relationship that can have various beneficial impacts on both the communities. An urgent need of today's world is to get high crop yields in an ecofriendly manner. Utilization of beneficial and multifaceted plant growth promoting (PGP) microorganisms can solve the problem of getting enhanced yields without disturbing the ecosystem thus leading to sustainability. For this to achieve understanding of the intricate details of how the beneficial microbes form associations with the host plant and sustain that for millions of years must be known. A holistic approach is required wherein the diversity of microbes associated with plant and the network of mechanisms by which

they benefit the host must be studied and utilized. 'Plant Microbe Symbiosis – Fundamentals and Advances' provides a comprehensive understanding of positive interactions that occur between plant and microorganisms and their utilization in the fields. The book reviews the enormous diversity of plant associated microbes, the dialog between plant-microbes-microbes and mechanisms of action of PGP microbes. Utilization of PGPRs as nutrient providers, in combating phytopathogens and ameliorating the stressed and polluted soils is also explained. Importantly, the book also throws light on the unanswered questions and future direction of research in the field.

It illustrates how the basic knowledge can be amalgamated with advanced technology to design the future bioformulations.

To cope with the increasing problems created by agrochemicals such as plant fertilizers, pesticides and other plant protection agents, biological alternatives have been developed over the past years. These include biopesticides, such as bacteria for the control of plant diseases, and biofertilizer to improve crop productivity and quality. Especially plant growth promoting rhizobacteria (PGPR) are as effective as pure chemicals in terms of plant growth enhancement and disease control, in addition to their ability

to manage abiotic and other stresses in plants. The various facets of these groups of bacteria are treated in this Microbiology Monograph, with emphasis on their emergence in agriculture. Further topics are Bacillus species that excrete peptides and lipopeptides with antifungal, antibacterial and surfactant activity, plant-bacteria-environment interactions, mineral-nutrient exchange, nitrogen assimilation, biofilm formation and cold-tolerant microorganisms.