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### The Potential Coinoculation Of Biofertilizers And

Global biofertilizers market is expected to growth over the period 2015– 2020 on account of providing physical barrier against pests, pathogens and enhance absorption of zinc and phosphorus. Biofertilizers in agriculture aids the decomposition of organic residues and stimulates overall plant development and growth.

### Biofertilizers – European Biomass Industry Association

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### The Potential Coinoculation Of Biofertilizers And

A meta-analysis was conducted using a novel host crop-specific approach to evaluate the agronomic potential of bacterial biofertilizers for maize. Yield increases tended to be slightly higher and more variable in greenhouse studies using field soil than in the field, and greenhouse studies poorly predicted the influence of moderating climate, soil and taxonomic variables.

### What is the agronomic potential of biofertilizers for ...

Exploitation of microbes as biofertilizers is considered to some extent an alternative to chemical fertilizers in agricultural sector due to their extensive potentiality in enhancing crop...

### (PDF) Biofertilizers: a potential approach for sustainable ...

Lignocellulose comprises a majority of the plant biomass produced on earth. This vast resource is the potential source of biofuels, biofertilizers, animal feed, and chemicals besides being the raw material for paper industry. Exploitation of this renewable resource needs either chemical or biological treatment of the material, and in the latter context cellulases have gained wide popularity over the past several decades.

### Biofertilizer - an overview | ScienceDirect Topics

Co-inoculation of *Azospirillum brasilense* and *Rhizobium meliloti* plus 2,4D posed positive effect on grain yield and N,P,K content of *Triticum aestivum* [ 35 ]. *Rhizobium* has been used as an efficient nitrogen fixer for many years. It plays an important role in increasing yield by converting atmospheric nitrogen into usable forms [ 36 ].

### Biofertilizers function as key player in sustainable ...

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The global biofertilizers market size was valued at USD 1.0 billion in 2019 and is anticipated to witness a compound annual growth rate (CAGR) of 12.8% from 2020 to 2027. The increasing usage of microbes in biofertilizers proves the potential for sustainable farming methods and food safety.

### Biofertilizers Market Size, Share & Growth Report, 2020-2027

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### The Potential Coinoculation Of Biofertilizers And

Currently, it has been estimated that the use of microbial biofertilizer reduces dependency on chemical fertilizer by up to 20%. Various microbial species alone or in combined (co-inoculation) have been used as plant or soil inoculants to enhance agricultural productivity as well as to reduce the growth of phytopathogens.

### Biofertilizer - an overview | ScienceDirect Topics

A biofertilizer is a substance which contains living micro-organisms which, when applied to seeds, plant surfaces, or soil, colonize the rhizosphere or the interior of the plant and promotes growth by increasing the supply or availability of primary nutrients to the host plant. Biofertilizers add nutrients through the natural processes of nitrogen fixation, solubilizing phosphorus, and stimulating plant growth through the synthesis of growth-promoting substances. The microorganisms in biofertilizers

### Biofertilizer - Wikipedia

Current soil management strategies are mainly dependent on inorganic chemical-based fertilizers, which caused a serious threat to human health and environment. The exploitation of beneficial microbes as a biofertilizer has become paramount importance ...

### Biofertilizers function as key player in sustainable ...

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### The Potential Coinoculation Of Biofertilizers And

Advantages & Disadvantages of Biofertilizers. Biofertilizers have the potential to increase the health and productivity of plant life and reduce the need to use synthetic fertilizers. The term ...

### Advantages & Disadvantages of Biofertilizers | Home Guides ...

Numerous species of soil bacteria which flourish in the rhizosphere of plants, but which may grow in, on, or around plant tissues, stimulate plant growth by a plethora of mechanisms. These bacteria are collectively known as PGPR (plant growth promoting rhizobacteria). The search for PGPR and investigation

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of their modes of action are increasing at a rapid pace as efforts are made to exploit ...

### Plant growth promoting rhizobacteria as biofertilizers ...

Azotobacter: A potential bio-fertilizer for soil and plant health management. ... Among the fungal biofertilizers, ... coinoculation of Azotobacter and Azospirillum have also been found to alleviate the adverse effect of salinity stress on some plants.

### Azotobacter: A potential bio-fertilizer for soil and plant ...

Applications of these biofertilizers have been reported in barley, oats, tomato, radish, cotton, sugarcane, maize, chilli and lettuce . Download : Download high-res image (651KB) Download : Download full-size image; Fig. 2. A theoretical representation exhibits the potential functions of cyanobacteria in sustainable agriculture and the environment.

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