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The interaction of soil microbial population is involved in plant growth. The application of phosphate solubilizing bacteria as biofertilizer is the best way for phosphorous replenishment. These bacteria by different mechanisms solubilize the insoluble form of phosphorous (organic and inorganic). Buffering effect of the soil drastically influences the growth of plant and solubilization of phosphate by phosphate solubilizing bacteria. Also, agriculture soils are contaminated by heavy metals which affects the efficiency of phosphate solubilizing bacteria. So, various tools of biotechnology are now being used to improve the efficiency of phosphate solubilizing bacteria. The phosphate solubilizing genes are being cloned, characterized and expressed in rhizobacterial strains.

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