Microbial Biotechnology in Agriculture and Aquaculture

R C Ray 2005-01-06

In agriculture, microbial biotechnology covers a wide array of subjects ranging from biofertilizers to biological control of pests and diseases; from biological N₂-fixation to lignocellulose degradation; from production of biomass and biofuels to genetically engineered plants. Similarly, microbial biotechnology in aquaculture touches several aspects.

Biological Nitrogen Fixation Associated with Rice Production

Mustafizur Rahman 2013-04-09

Biological nitrogen fixation (BNF) has become important in rice farming systems because this process diminishes the need for expensive chemical fertilizers which have been associated with numerous health and environmental problems. The extensive exploitation of BNF would provide economic benefits to small farmers, avoiding all malign influences of chemical fertilizers. Meanwhile, advances in biotechnology have brought rice genetics to the threshold of new opportunities for increasing rice production. This volume focuses, in six different sessions, on the role of BNF in the improvement of rice production in the light of the current state of the art of BNF technology transfer and diffusion. New ideas on BNF technology in research, extension information and inoculant technology are also included, together with the socio-economic impacts of using BNF in rice farm systems.

Rice Research and Management in India

R. D. Sharma 2000

This volume is the compilation of two issues of journal, Advances in Agricultural Research in India. It has two parts, the first part is devoted to Rice Research in India which highlights the research aspect of rice. The second part of the book devoted to Management, which highlights the management aspect of the rice.