

Achieving sustainable cultivation of rice

Volume 2: Cultivation, pest and disease management

Edited by Professor Takuji Sasaki
Tokyo University of Agriculture, Japan



 burleigh dodds
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Achieving sustainable cultivation of rice Volume 2

Cultivation, pest and disease management

Edited by: Takuji Sasaki, Tokyo University of Agriculture, Japan

Endorsement:

"Rice feeds half the world population. Production of rice must continue to increase at the rate of one percent a year to maintain food security. This will require varieties with higher yield potential and better management practices. This collection summarizes the latest technologies for genetic improvement of rice and for its management under diverse environments. It will serve as standard reference for rice scientists."

Professor Gurdev Khush, University of California-Davis, USA; formerly the International Rice Research Institute (IRRI), winner of the Japan Prize, the World Food Prize and the Wolf Prize

Description:

Rice is one of the most important foods in the world. As the demand for rice continues to increase, there is an urgent need to increase yields in the face of such challenges as climate change, threats from pests and diseases and the need to make cultivation more resource-efficient and sustainable.

Drawing on an international range of expertise, this collection focuses on ways of improving the cultivation of rice at each step in the value chain, from breeding to post-harvest storage. Volume 2 reviews research in improving cultivation in such areas as irrigation and nutrition as well as developments in disease and pest management.

Achieving sustainable cultivation of rice Volume 2: Cultivation, pest and disease management will be a standard reference for rice scientists in universities, government and other research centres and companies involved in rice cultivation. It is accompanied by Volume 1 which reviews research in breeding, nutritional and other aspects of rice quality.

Key features:

- Summarises advances in cultivation practices to close yield gaps, including more efficient irrigation and nutrition techniques;
- Discusses innovative methods of 'climate-smart' cultivation such as integrated crop management and the system of rice intensification (SRI);
- Reviews the latest research on insect pests, weeds and integrated pest management

Audience:

Academic researchers in cereal science; International and national agencies supporting agricultural development; Cereal processors and companies supplying the agricultural sector.

Editor details:

Dr Takuji Sasaki is Professor at the Nodai Research Institute, Tokyo University of Agriculture, Japan. Professor Sasaki is Editor-in-Chief of the journal *Rice*, and played a leading role in the international rice genome sequencing project.

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