

# Achieving sustainable cultivation of rice

VOLUMES 1 & 2

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## Achieving sustainable cultivation of rice - Vol.1

Breeding for higher yield and quality

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

### KEY FEATURES

- Reviews developments in understanding and protecting genetic diversity in rice, and how this translates into marker-assisted and other developments in breeding
- Discusses advances in breeding varieties with enhanced properties such as high yield and drought tolerance
- Summarises current research on understanding and improving nutritional properties such as vitamin and mineral content



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### Author biography

**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.

### Biblio information

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'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**

# Achieving sustainable cultivation of rice - Vol.2

## Cultivation, pest and disease management

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

### 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

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### Biblio information

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