

# NEW DIRECTIONS OF POST-RICE GENOME SEQUENCING

*Edited by Makoto Matsuoka, with introduction by Ronald L Phillips.*

The DNA sequence of the rice genome is now available....but what's next? The excitement over the international effort to understand the genetic blueprint of the world's most important crop has somewhat overshadowed our recognition of the genomic science yet to be done. Genes do not act alone but in concert with other genes – and the expression and interaction of genes are affected by various environmental influences – both biotic and abiotic. Although the current state of knowledge provides a basis for significant achievement, considerably more information is needed to take maximum advantage of the impressive strides already made.

“Rice is life!” That was the declaration of a Minister of Agriculture of one of the prominent rice-producing countries in Asia. He said further “Without rice, there is no life”. When there are 854 million malnourished people, mainly in Asia and sub-Saharan Africa, many making only \$1 per day, rice nutrition and production improvements can have major impacts.

This collection of papers provides a comprehensive review of rice development and the known associated genes. It should be required reading for all plant scientists, especially since rice has emerged as a model system for the grasses, which includes about 10,000 species.

## From Mapping to Sequencing, Post-sequencing and Beyond

*Takuji Sasaki, Takashi Matsumoto, Baltazar A. Antonio and Yoshiaki Nagamura*

## Molecular Genetics Using T-DNA in Rice

*Gynbeung An, Shinyoung Lee, Sung Hynn Kim and Seong-Ryong Kim*

## Rice Plant Development: from Zygote to Spikelet

*Jun-Ichi Itob, Ken-Ichi Nonomura, Kyoko Ikeda, Shinichiro Yamaki, Yoshiaki Inukai, Hiroshi Yamagishi, Hidemi Kitano and Yasuo Nagato*

## Rice Mutants and Genes Related to Organ Development, Morphogenesis and Physiological Traits

*Nori Kurata, Kazumaru Miyoshi, Ken-Ichi Nonomura, Yukiko Yamazaki and Yukihiko Ito*

## Biological Ontologies in Rice Databases. An Introduction to the Activities in Gramene and Oryzabase

*Yukiko Yamazaki and Pankaj Jaiswal*

## Genetics and Evolution of Inflorescence and Flower Development in Grasses

*Peter Bommert, Namiko Satoh-Nagasawa, David Jackson and Hiro-Yuki Hirano*

This book is a review from *Plant & Cell Physiology* 2005, Vol 46 Issue 1, January with extra material and introduction added.

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