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New developments in rice molecular biology are enabling its use as a paradigmatical model for monocotyledonous plants. K. Shimamoto discusses progress in the Rice Genome Project, the first positional cloning of a rice gene [also reported in this issue of Science (Song et al ., [p. 1804][1])], and new cloning and transformation methods for rice.

The Molecular Biology of Rice | Science

the molecular biology of rice in the past two decades. Today, rice stands as a forerunner amongst the cereals in terms of details known on its genetics. Evidence show that salt tolerance in plants is a quantitative trait. Several traditional cultivars, landraces, and wild types of rice like

Salt stress response in rice: genetics, molecular biology

molecular biology; rice tungro bacilliform virus; rice tungro spherical virus; badnavirus; plant picornavirus. INTRODUCTION Rice tungro virus disease is one of the major constraints to rice production in South and Southeast Asia; it causes annual losses in the order of \$1.5 Å— 10 9 (27).

MOLECULAR BIOLOGY OF RICE TUNGRO VIRUSES | Annual Review

Molecular Biology of Rice Spangenberg, German 2001-03-01 00:00:00 This multi-authored book looks over the last decade of molecular biological studies in rice, which have seen this most important of global crops also established as a model system for plant molecular biology. The book is organized into four parts â€” over 14 chapters and some 300 pages â€” and addresses genome analysis and gene isolation, development, regulation of gene expression, and genetic engineering of rice.

Molecular Biology of Rice, Plant Science | 10.1016/S0168

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cuss the application of rice genomics to molecular biology, using the analysis of the gibberellin (GAs) biosynthetic and signal transduction pathways in rice as an example. GAs were first identified in the process of studying rice. A fungal pathogen of rice, Gibberella fujikroi, causes an abnormal stem elongation known as Bakanae-disease.

Application of rice genomics to plant biology and breeding

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However, the molecular biology of disease resistance in rice is not as well deined as in the dicot model plants such as Arabidopsis and tobacco. Phytoalexins Phytoalexins are low-molecular weight antimicrobial compounds that are synthesized and accumulated in plant tissues upon pathogen attack. In rice, two

different types of phytoalexins, diterpenes and phenolics have been isolated and identified.

Molecular biology of disease resistance in rice

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Protein profile of rice (*Oryza sativa*) seeds Yanhua Yang#, Li Dai#, Hengchuan Xia, Keming Zhu, Haijun Liu and Keping Chen Institute of Life Sciences, Jiangsu University, Zhenjiang, PR China. Abstract Seeds are the most important plant storage organ and play a central role in the life cycle of plants.

Protein profile of rice (*Oryza sativa*) seeds - SciELO

Abstract Rice tungro, the most important virus disease of rice in South and Southeast Asia, is caused by a complex of two viruses, rice tungro bacilliform virus (RTBV) and rice tungro spherical virus (RTSV). RTBV is a plant pararetrovirus with bacilliform particles, the structure of which is based on T = 3 icosahedral symmetry cut across the threefold axis. The particles encapsidate a circular ...

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