



Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (*Oryza Sativa* L.) Under Aerobic Condition

Sathya Ramalingam

Download now

[Click here](#) if your download doesn't start automatically


Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (*Oryza Sativa* L.) Under Aerobic Condition

Sathya Ramalingam

Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (*Oryza Sativa* L.) Under Aerobic Condition Sathya Ramalingam

Doctoral Thesis / Dissertation from the year 2012 in the subject Biology - Genetics / Gene Technology, grade: -, Tamil Nadu Agricultural University (Madurai Agricultural College and Research Institute), course: Ph.D, language: English, comment: I thank my chairman Dr.S.Jebaraj, professor in department of plant breeding and genetics and Pioneer Hibred International for the award of \$15000 for two years to carry out this research , abstract: An investigation in rice (*Oryza sativa* L.) was carried out subjecting six 'lines' and 15 'testers' crossed in a Line x Tester mating design to estimate gene action, combining ability and heterosis for yield and drought tolerant traits under aerobic condition. The 21 parents were also surveyed using SSR markers. From the Line x Tester analysis, the hybrids exhibited significant variation among themselves for all the characters studied under aerobic condition. The study of gene action for drought tolerance and yield component traits revealed that all the traits exhibited dominant gene action which was predominant. Therefore, to harness the dominant gene effects, either heterosis breeding or selection at later generations would be an appropriate breeding methodology. Based on the per se performance of lines and testers, the following parents i.e., IR79128A (L1), IR79156A (L2), COMS14A (L5), COMS24A (L6), IR 80286-22-3-6-1R (T3) and IR7925A-428-2-1-1R (T4) were adjudged as the best parents and crosses involving them would be expected to throw desirable segregants for both yield and drought tolerant traits under aerobic condition. Based on the gca effects, the parents IR79128A (L1), IR70369A (L4), IR79156A (L2), BI-33 (T15), IR79582-21-2-2-1R (T5), KMP-105 (T11), T1 (IR 69726-29-1-2-2R) and MAS - 946-1 (T9) were the best general combiners and the crosses involving them would result in the identification of superior segregants with favourable genes for both drought and yield. Out of 21 parents evaluated based on per se and gca effec

 [Download Genetic and Molecular Analysis of Yield and Physio ...pdf](#)

 [Read Online Genetic and Molecular Analysis of Yield and Phys ...pdf](#)

Download and Read Free Online Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition Sathya Ramalingam

From reader reviews:

James Dorman:

Do you have something that suits you such as book? The book lovers usually prefer to decide on book like comic, short story and the biggest some may be novel. Now, why not striving Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition that give your fun preference will be satisfied by means of reading this book. Reading habit all over the world can be said as the opportunity for people to know world considerably better than how they react toward the world. It can't be stated constantly that reading habit only for the geeky man or woman but for all of you who wants to be success person. So, for every you who want to start examining as your good habit, you may pick Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition become your current starter.

Anna Gann:

The book untitled Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition contain a lot of information on it. The writer explains the woman idea with easy way. The language is very clear and understandable all the people, so do certainly not worry, you can easy to read this. The book was compiled by famous author. The author brings you in the new period of time of literary works. You can actually read this book because you can keep reading your smart phone, or device, so you can read the book within anywhere and anytime. If you want to buy the e-book, you can available their official web-site and order it. Have a nice read.

Nellie Ferguson:

Many people spending their moment by playing outside together with friends, fun activity with family or just watching TV 24 hours a day. You can have new activity to enjoy your whole day by studying a book. Ugh, think reading a book can definitely hard because you have to use the book everywhere? It okay you can have the e-book, taking everywhere you want in your Mobile phone. Like Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition which is obtaining the e-book version. So, why not try out this book? Let's notice.

Yolanda Sartain:

That book can make you to feel relax. This specific book Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition was colourful and of course has pictures on there. As we know that book Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition has many kinds or genre. Start from kids until youngsters. For example Naruto or Private investigator Conan you can read and think you are the character on there. So, not at all of book usually are make you bored, any it makes you feel happy, fun and relax. Try to choose the best book for yourself and try to like reading this.

**Download and Read Online Genetic and Molecular Analysis of
Yield and Physiological Traits in Three Line Hybrids in Rice (*Oryza
Sativa L.*) Under Aerobic Condition Sathya Ramalingam**

#Y1O37WL2DJS

Read Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition by Sathya Ramalingam for online ebook

Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition by Sathya Ramalingam Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition by Sathya Ramalingam books to read online.

Online Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition by Sathya Ramalingam ebook PDF download

Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition by Sathya Ramalingam Doc

Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition by Sathya Ramalingam Mobipocket

Genetic and Molecular Analysis of Yield and Physiological Traits in Three Line Hybrids in Rice (Oryza Sativa L.) Under Aerobic Condition by Sathya Ramalingam EPub