

Analysis Of Diallel Mating Designs Nc State University

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Analysis Of Diallel Mating Designs

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Analysis of Diallel Mating Designs Fikret Isik North Carolina State University, Raleigh, USA 61 Introduction 611 Diallel mating designs When the same parents are used as females and males in breeding, the mating design is called diallel Here are some commonly used diallel mating designs in

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Analysis Of Diallel Mating Designs Nc State University

Analysis of Disconnected Diallel Mating Designs Abstract Procedures to analyze half-diallel mating designs using the SAS statistical package are presented The procedure requires two runs of PROC and VARCOMP and results in estimates of additive and non-additive genetic variation Analysis of half diallel mating designs I: a practical

Analysis of Disconnected Diallel Mating Designs

Diallel mating of the selected "875" parents The final selected group of 95 "875"'s was mated in a modified, disconnected, 5-parent, partial half-diallel design totalling 18 diallels and 154 full-sib families With the excep-tion of diallel 1, the allocation of "875" parents to diallel crosses

Analysis of Half Diallel Mating Designs

packages and can limit one's options in data analysis Limita-Analysis of Half Diallel Mating Designs I - A Practical Analysis Procedure for ANOVA Approximation By G R JOHNSON¹) and J N KING²) (Received 23rd June 1997) 1) USDA, Forest Service, Forestry Sciences Lab, 3200 SW Jefferson Way, Corvallis, OR 97331-4401, USA

Analysis Of Diallel Mating Designs Nc State University

The diallel mating designs have been extensively employed to gain genetic information by crop and tree breeders, but analysis of diallel data faces

some challenges because the same parent acts both male and female roles Theoretically, little attention was paid to the statistical inference and **Analysis of Half-diallel Mating Design with Missing ...**

Among common mating designs in plant and tree breeding (open-pollinated, polycross, single-pair, nested, factorial, diallel mating), the diallel mating design is the most difficult to analyse Standard commercial statistical packages do not allow direct specification of the diallel mating model and therefore are not capable of analysing the diallel

Diallel Analysis and its Applications in Plant Breeding

Diallel mating design is used to evaluate several inbred lines in terms of combining ability variances and effects Diallel cross refers to mating of selected parents in all possible combinations and evaluation of a set of diallel crosses is known as diallel analysis Diallel is ...

GSCA: New Software and Algorithms to Analyse Diallel ...

The diallel mating designs have been extensively employed to gain genetic information by crop and tree breeders, but analysis of diallel data faces some challenges because the same parent acts both male and female roles Theoretically, little attention was paid to the statistical inference and hypothesis testing for a fixed diallel linear model

Proper analysis of the diallel mating design

issues of the diallel mating design and to show the importance of these issues to the plant breeder Griffing's approach (1956b) will be used primarily to illustrate these objectives because it is the more widely used analysis among most plant breeders Unlike most other mating designs...

Common Mating Designs in Agricultural Research and Their ...

in a mating design are selected at random and crossed to form progenies that are related to each other as half-sibs or full-sibs Variations among the progenies (sibs) can be assessed using analysis of variance procedures Mating designs most used are those that can be easily analyzed by normal statistical procedures and provide

USE OF NESTED DESIGNS IN DIALLEL CROSS EXPERIMENTS

Designs for Diallel Cross Experiments 1) comprising of all the p^2 progeny families 2) Including p parents and pC 2 F1 hybrids, ie, a total of $p(p+1)/2$ families 3) Including pC 2 F1 hybrids and pC 2 F1 reciprocals, ie, $p(p-1)$ combinations 4) pC 2 F1' s only Here, we shall consider only the designs used for the 4th type of analysis That is, designs

Design and Analysis of Experiments

14 Diallel Crosses: Type II Designs, 14 141 Hayman Approach for Diallel Analysis, 14 142 Griffing's Method, 21 15 Partial Diallel Crosses: No Blocking or Complete Blocks, 25 16 Partial Diallel Crosses in Incomplete Blocks, 32 161 Construction of Mating-Environment Designs, 33 162 Analysis of M-E Design, 36 vii

Diallel Analysis and Genetic Diversity Analysis Assist in ...

population (Acquaah, 2012) The diallel analysis is mostly used for getting various genetic information from all mating designs (Hallauer et al, 2010) Sprague and Tatum (1942) introduced the diallel cross concept to plant breeding among a set of maize (*Zea mays* L) ...

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The diallel cross• a mating system first discussed by Sillitoe (1919), has been used successfully for evaluating genetic variances The theory of the analysis of diallel crosses has been extensively developed, and various modifications of the diallel mating design have been made which lead to more efficient estimators of the general and

EXPERIMENTAL DESIGNS FOR POPULATION HYBRIDIZATION ...

31 The PI-Partial Two-Level Diallel Mating Design •••••••• 39 32 33 The P-Partial Two-Level Diallel Mating Design The I-Partial Two-Level Diallel Mating Design 52 56 41 The Construction of an Incomplete Environmental Design for a

To characterize A- optimal row-column designs for complete ...

By a complete diallel cross (CDC) mating design is one in which a set of p inbred lines is chosen and crosses among these lines are made The procedure gives rise to a maximum of p^2 combinations Griffing (1956) gave four classifications of CDC mating designs as : CDC method (1) mating design contains P^2 crosses, CDC method

Diallel Analysis of Plant and Ear Heights in Tropical ...

Plant breeders and geneticists often use diallel mating designs to obtain genetic information about a trait of interest from a fixed or randomly chosen set of parental lines Diallel designs and analyses have been developed for parents that range from inbred lines ...

Optimal Block Designs for Diallel Crosses

Some efficient incomplete block designs for diallel crosses are also reported Some key words: Efficiency; Mating design; Optimality; Triangular design 1 INTRODUCTION The diallel cross is a type of mating design, used to study the genetic properties of a set of inbred lines

Diallel Analysis of Wheat streak mosaic virus Resistance ...

Diallel Analysis of Wheat streak mosaic virus Resistance in Winter Wheat Frederic Hakizimana, Amir M H Ibrahim,* Marie A C Langham, Scott D Haley, and Jackie C Rudd ABSTRACT (Gardner and Eberhart, 1966) Diallel mating designs