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Analysis Of Diallel Mating Designs

Analysis of Diallel Mating Designs
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 …

Analysis of Half Diallel Mating Designs
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 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 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

Design and Analysis of Experiments
14 Diallel Crosses: Type II Designs, 14 141 Hayman Approach for Diallel Analysis, 14 142 Griffi ng’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 …

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 …

Application of diallel analyses in crop improvement

knowledge and practice of diallel analysis is paramount A diallel cross is a mating scheme used by plant and animal breeders, as well as geneticists, to investigate the genetic underpinnings of qualitative and quantitative traits There are four main types of diallel mating design: i Full diallel

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 …

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

USE OF NESTED DESIGNS IN DIALLEL CROSS EXPERIMENTS Rajender Parsad IASRI, Library Avenue, New Delhi - 110 012 1 Introduction The term diallel is a Greek word and implies all possible crosses among a collection of male and female animals

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 chal-lenges 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

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) …

Analysing diallel and factorial designs by PLABSTAT

Analysing diallel and factorial designs by PLABSTAT HF Utz Institute of Plant Breeding, Seed Science and Population Genetics 1 FIRST ANALYSIS 11 Diallel designs estimation of general and speci c combining ability from half-diallel mating designs Silvae Genetica 41: 263-273 Klein, D 1974

Principles and utilization of combining ability in plant …

be performed by particular mating designs such as line × tester, North Carolina (NC) designs I, II and III, and diallel Through conducting such designs, the genetic influences of a line can be partitioned into additive and non-additive components1,2 dominance and dominance × dominance interactions Definition of combining ability

Robustness of Complete Diallel Cross Plan using Partially …

Abstract —Mating designs are the study of progenies developed through various methods like Diallel Cross plans which are subjected to Incomplete Block Designs The concept of robustness in a design has been studied and available in the literature The effects of missing blocks on Complete Diallel Cross designs are examined in this study

Combining ability and heterosis in diallel analysis of ...

Jatropha The below model was considered for statistical analysis in this breeding is a time consuming process due to perenniality Diallel mating designs provide useful genetic information for breeding programs, such as general combining ability (GCA) and specific combining ability

Journal of Plant Breeding and Genetics

In all mating designs, the individuals are taken randomly and crossed to produce progenies which are related to each other as half-sibs or full-sibs A form of multivariate analysis or the

9 6 5

The diallel cross• a mating system first discussed by SCll‌l;Uftt (1919), has been used successfully for evaluating genetic variances ':['11e theory of the analysis of dl1311elE has been extensively deveJoI)cd, and various modifications of the djaI1el mating desi~nhave been made which lead to more efficient estimators of the general and

SASHAYDIALL: A SAS Program for Hayman's Diallel Analysis

he diallel cross, made by crossing a set of genotypes in all possible combinations, is one of the most popular mating designs used in plant breeding There are variations of the diallel depending on whether the parents and reciprocals are evaluated together with the ...

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