

Heterotic Grouping and its Exploitation in Hybrid Breeding

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ABSTRACT

A heterotic group is a set of genetically related genotypes that show similar hybrid performance when crossed with individuals from another genetically distinct germplasm group. Genetic relationship between genotypes of various accessions serves as one of the basic criteria for the outyielding potential of these heterotic groups. The more divergent the heterotic groups are, the higher heterosis in the off-springs. The information generated on the heterotic grouping will help in further streamlining the available germplasm into heterotic pools and thereby augmenting the national hybrid breeding programme.

INTRODUCTION

Heterosis is due to a high degree of heterozygosity in the genome. Heterozygosity can be increased by crossing genetically distinct parental materials, i.e., materials belonging to distinct heterotic groups. Heterotic grouping means identifying germplasm groups that are genetically distinct from each other and that produce superior hybrids when crossed. Heterotic grouping is the commonly used method for assigning the lines into different heterotic groups. Heterotic group constitution is the fundamental step for exploitation of heterosis and developing superior hybrids

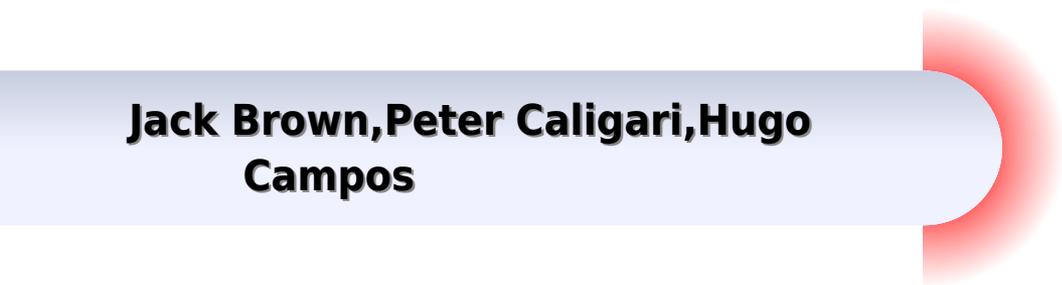
(Aguilar et al., 2008). It helps in the streamlining of the fixed genetic material into heterotic groups for better utilization in the form of inbred derivation and generation of superior hybrids, as the selection of contrasting inbred lines for hybridization would ensure greater chances of obtaining heterotic hybrids (Singh et al. 2020).

Concept of heterotic groups and heterotic pattern

Melchinger and Gumber (1998) defined a "heterotic group" as a group of related or unrelated genotypes from the same or different populations, which display similar combining

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Principles of Plant Genetics and Breeding George Acquaah,2020-09-28 The revised edition of the bestselling textbook covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding Combining both classical and molecular tools this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants particularly in response to the increasing demands to of growing populations Illustrated chapters cover a wide range of topics including plant reproductive systems germplasm for breeding molecular breeding the common objectives of plant breeders marketing and societal issues and more Now in its third edition this essential textbook contains extensively revised content that reflects recent advances and current practices Substantial updates have been made to its molecular genetics and breeding sections including discussions of new breeding techniques such as zinc finger nuclease oligonucleotide directed mutagenesis RNA dependent DNA methylation reverse breeding genome editing and others A new table enables efficient comparison of an expanded list of molecular markers including Allozyme RFLPs RAPD SSR ISSR DAMD AFLP SNPs and ESTs Also new and updated Industry Highlights sections provide examples of the practical application of plant breeding methods to real world problems This new edition Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field such as CRISPR genome editing and grafting on GM stock Includes numerous illustrations and end of chapter self assessment questions key references suggested readings and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science particularly those studying plant breeding biotechnology and genetics Maydica ,2005 Journal devoted to maize and allied species

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Advances in breeding techniques for cereal crops Prof Frank Ordon, Prof. Wolfgang Friedt, 2019-06-28 Assesses performance of conventional techniques such as backcross and hybrid breeding in introducing new traits Maps current progress in methods to identify quantitative trait loci QTL linking phenotypic traits with genetic information for selection Shows comparative strengths and weaknesses of marker assisted selection MAS techniques such as genome wide association studies GWAS and nested association mapping NAM

Plant Breeding Jack Brown, Peter Caligari, Hugo Campos, 2014-11-17 This book *Plant Breeding* has its bases in an earlier text entitled *An Introduction to Plant Breeding* by Jack Brown and Peter Caligari first published in 2008 The challenges facing today's plant breeders have never been more overwhelming yet the prospects to contribute significantly to global food security and farmers quality of life have never been more exciting and fulfilling Despite this there has been a worrying decline in public funding for plant breeding related research and support for international centers of germplasm development and crop improvement In part this has resulted in a serious reduction in the number of young people interested in devoting their professional careers to plant breeding as well as the number of universities offering plant breeding courses or conducting relevant research in plant breeding The authors aim in writing this book is to provide an integrated and updated view of the current scientific progress related to diverse plant breeding disciplines within the context of applied breeding programs This excellent new book will encourage a new generation of students to pursue careers related to plant breeding and will assist a wider audience of agricultural students agronomists policy makers and those with an interest in agriculture in gaining insight about the issues affecting plant breeding and its key role in improving the quality of life of people and in securing sufficient food at the quality required and at an affordable price With comprehensive coverage including questions designed for students and an accompanying website containing additional material to help in the study of the subject *Plant Breeding* is an ideal text for all those studying plant and crop sciences and a convenient reference source for professionals working in the area All libraries within universities and research establishments where biological and agricultural sciences are studied and taught should have multiple copies of this book

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