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Heterotic Group

Concept Of Heterotic Group And Its Exploitation In Hybrid

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Melchinger and Gumber (1998) defined a heterotic group “as a group of related or

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unrelated genotypes from the same or different populations, which display similar combining ability and heterotic response when crossed with genotypes from other genetically distinct germplasm groups.”

**Heterotic groups:
State Plant Breeding
Institute, Research**

...

Heterosis, hybrid vigor,
or outbreeding

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enhancement is the improved or increased function of any biological quality in a hybrid offspring. An offspring is heterotic if its traits are enhanced as a result of mixing the genetic contributions of its parents. These effects can be due to Mendelian or non-Mendelian inheritance.

**Heterosis -
Wikipedia**

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heterotic groups is very useful in inbred line development and help breeders to utilize their germplasm in a more efficient and consistent manner through exploitation of complementary lines for...

(PDF) Concept of Heterotic Group and its Exploitation in ...

Melchinger and Gumber (1998) defined a heterotic group —as

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a group of related or unrelated genotypes from the same or different populations, which display similar combining ability and heterotic response when crossed with genotypes from other genetically distinct germplasm groups.

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Abstract: Heterotic

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groups and heterotic patterns form an integral part of hybrid breeding and help breeders to utilize their germplasm in a more efficient manner avoids unnecessary crosses to be made. The approaches for establishing vary depending on type of germplasm.

Concept of heterotic groups and reciprocal recurrent

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Heterotic groups and heterotic patterns form an integral part of hybrid breeding and help breeders to utilize their germplasm in a more efficient manner avoids unnecessary crosses to be made. The...

(PDF) Concept of heterotic groups and reciprocal recurrent

...

In this regard the

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concept of heterotic grouping includes the subdivision of the germplasm available into divergent populations. The heterotic groups (hybrid oriented populations) so formed can be improved by inter population selection methods (reciprocal recurrent selection scheme).

Concept of heterotic groups and

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Summary. Heterotic groups and patterns are of fundamental importance in hybrid breeding. We start with definitions of these terms. Theoretical and experimental arguments are given demonstrating the superiority of inter-group compared with intra-group crosses under two aspects: (i) a higher

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mean heterosis and hybrid performance and (ii) a reduced specific combining ability (SCA) variance and lower ratio of SCA to general combining ability (GCA) variance, which implies that identification ...

Overview of Heterosis and Heterotic Groups in Agronomic ...

Definition of heterosis and the concept of

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heterotic grouping The phenomenon of heterosis was first detected in maize.

Shull defined heterosis in 1914 as, "The increased vigour, speed of development, resistance to disease and insect pests, or to climatic rigours of any kind, manifested by crossbred organisms

B Haussmann Definition of heterotic grouping

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Heterotic groups and patterns in crops
Heterotic patterns have been studied in various species. For certain crops, breeders have defined standard patterns that guide in the production of hybrids. As previously indicated in maize, for example, a widely used scheme for hybrid development in temperate maize is the Reid _ Lancaster heterotic pattern.

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Methods for developing heterotic groups ~ Breeding & Plant ...

Three heterotic groups were created. The group 1 consisted of three inbred lines, group 2 had only one inbred line and rest were assigned into group 3. Key words: Maize, diallel, heterotic group, heterotic pool, general combining ability, specific

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combining ability,
reciprocal effect, GGE
biplot
Exploitation In
Hybrid

**GROUPING IN
HETEROTIC POOL OF
MAIZE INBRED LINES
BASED ON ...**

A heterotic group
Group of related or
unrelated genotypes
from the same or
different populations,
which display a similar
combining ability and
heterotic response
when crossed with

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genotypes from other genetically distinct germplasm groups.

Heterotic pools - LinkedIn SlideShare

A heterotic group is a group of related or unrelated genotypes displaying similar combining ability and giving a heterotic response when crossed to opposite or other genetically distinct germplasm group (Melchinger, 1999).

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Heterotic grouping and patterning of quality protein maize ...

The concept and classing methods of the heterotic group and heterotic model in corn were introduced briefly. The research results in China and in Heilongjiang Province were concluded and compared. Some new opinions about corn heterotic group and

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heterotic model in Heilongjiang Province were proposed such as Northeast group, Northeast \times Reid and Northeast \times Lancaster models.

Study on corn heterotic group and model.

By definition, a heterotic group encompasses a set of directly related inbred lines which produce high yielding and

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vigorous hybrids when crossed to inbred lines from different heterotic groups, but not when crossed to inbred lines from the same heterotic group.

Genetic Diversity, Population Structure and Inter-Trait ...

Rice heterosis, or hybrid vigor, refers to the increased yield in a hybrid offspring compared to its inbred parental lines. The rice

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hybrid varieties typically display a grain yield advantage of...

Dissecting a heterotic gene through GradedPool-Seq mapping ...

In string theory, a heterotic string is a closed string (or loop) which is a hybrid ('heterotic') of a superstring and a bosonic string. There are two kinds of heterotic string, the

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heterotic $SO(32)$ and
the heterotic $E_8 \times E_8$
, abbreviated to HO
and HE .

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