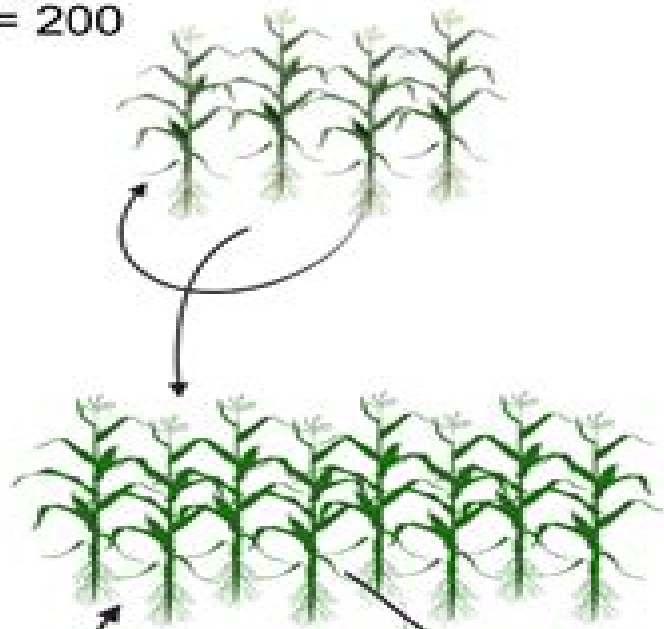
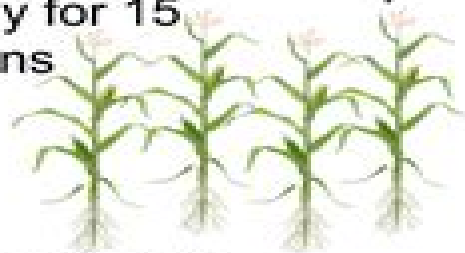


## Recurrent Selection

Randomly cross founders for  
10 generations  
 $N = 200$



Randomly cross top 5%  
of progeny for 15  
generations  
 $N = 10$

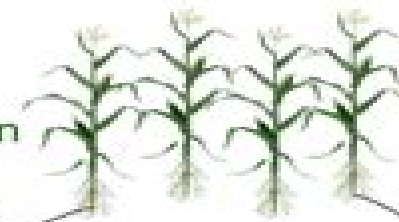
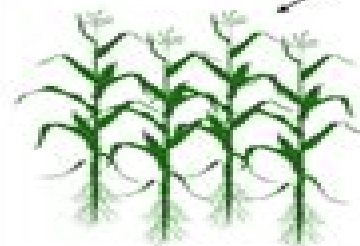


Select top 5% after  
15 generations  
of recurrent selection  
 $N = 10$

## Introgression

Diverge founder population  
into two  
 $N = 200$

Elite population  
-high yield  
-no resistance



Unimproved  
population  
-low yield  
-resistance

Cross best  
**unimproved**  
and  
**elite** individuals,  
 $N = 2$



Backcross to  
**elite** parent  
for  
4 generations  
Select top 5%  
 $N = 10$

Select top 5%  
after  
4 generations  
of backcrossing  
 $N = 10$



# Selection Methods In Plant Breeding

**DP Hallahan**



## **Selection Methods In Plant Breeding:**

Selection Methods in Plant Breeding Izak Bos, Peter Caligari, 2013-11-21 Our requirement for plant breeders to be successful has never been greater. However, one views the forecasted numbers for future population growth we will need in the immediate future to be feeding, clothing and housing many more people than we do inadequately at present. Plant breeding represents the most valuable strategy in increasing our productivity in a way that is sustainable and environmentally sensitive. Plant breeding can rightly be considered as one of the oldest multidisciplinary subjects that is known to humans. It was practised by people who first started to carry out a settled form of agriculture. The art as it must have been at that stage was applied without any formal underlying framework but achieved dramatic results as witnessed by the forms of cultivated plants we have today. We are now learning how to apply successfully the results of yet imperfect scientific knowledge. This knowledge is however rapidly developing particularly in areas of tissue culture, biotechnology and molecular biology. Plant breeding's inherent multifaceted nature means that alongside obvious subject areas like genetics we also need to consider areas such as statistics, physiology, plant pathology, entomology, biochemistry, weed science, quality seed characteristics, reproductive biology, trial design, selection and computing.

*Selection Methods in Plant Breeding* Izak Bos, Peter Caligari, 2007-10-26 Selection procedures used in plant breeding have gradually developed over a very long time span in fact since settled agriculture was first undertaken. Nowadays these procedures range from very simple mass selection methods sometimes applied in an ineffective way to indirect trait selection based on molecular markers. The procedures differ in costs as well as in genetic efficiency. In contrast to the genetic efficiency costs depend on the local conditions encountered by the breeder. The genetic progress per unit of money invested varies consequently from site to site. This book considers consequently only the genetic efficiency i.e. the rate of progress to be expected when applying a certain selection procedure. If a breeder has a certain breeding goal in mind a selection procedure should be chosen. A wise choice requires a well-founded opinion about the response to be expected from any procedure that might be applied. Such an opinion should preferably be based on the most appropriate model when considering the crop and the trait or traits to be improved. Sometimes little knowledge is available about the genetic control of expression of the traits. This applies particularly in the case of quantitative variation in the traits. It is therefore important to be familiar with methods for the elucidation of the inheritance of the traits of interest. This means in fact that the breeder should be able to develop population genetic and quantitative genetic models that describe the observed mode of inheritance as satisfactorily as possible.

**Selection Methods in Plant Breeding** T. Kramer, 1984\* PLANT BREEDING METHODS MAHABAL RAM, 2014-10-01 This comprehensive book provides a detailed account of the plant breeding methodology covering particularly pre and post Green Revolution era. It elaborates on plant breeding and gene manipulation, utilization of self-incompatibility in developing hybrids, different plant breeding methods for development of crop varieties and hybrids in self and cross-pollinated crops, nature of gene action and

genotype environment interaction The text discusses gene manipulation in the crop plant and transfer of genes from wild species to cultivated crops application of biotechnology in plant breeding and genetic engineering and transgenic molecular markers as breeding tools and their limitations It concludes with a discussion on physiologic breeding approach and new plant ideotype concepts which are new and emerging areas of interest in plant breeding research The book will be of immense use to undergraduate and postgraduate students of Agricultural Sciences and Botany for their course study Besides research scholars and professionals will also find the book as an excellent source of reference

**Market-Driven Plant Breeding for Practicing Breeders** Aparna Tiwari, Surinder K. Tikoo, Sharan P. Angadi, Suresh B. Kadaru, Sadananda R.

Ajanahalli, M. J. Vasudeva Rao, 2023-01-02 This book highlights the technicalities of plant breeding in a seed business environment and explains the crucial aspects of the value chain It educates the readers on how to initiate participate sustain national and international agreements for material transfer how consortia work to facilitate germplasm accessibility and how to set visionary goals to develop a superior plant varieties The book covers the aspects such as how to conduct disease screening trials at hot spots preparing an operational budget and how to accelerate product advancement Plant breeding is broadly defined as manipulation of plant genotypes to create phenotypes that are beneficial to mankind It helps to achieve food security and sustainability by developing high yielding climate resilient nutritious varieties of crops and hence is able to address unprecedented challenges like rising global population diminishing genetic biodiversity and uncertainties of the weather This book is an extraordinary source of information starting from goal genesis to market oriented product profiling and help readers to accelerate enhance their work professional performance more effectively This book will be very useful to practicing plant breeders at various levels in the public and private sectors It is a must have book for potential plant breeders who enter plant breeding profession just after the completion of their formal plant breeding education

**Introduction to Plant Breeding 1: Selection Methods** J. E. Parlevliet, 1990 *Intelligent Image Analysis for Plant Phenotyping* Ashok Samal, Sruti Das Choudhury, 2020-10-21 Domesticated crops are the result of artificial selection for particular phenotypes or in some cases natural selection for an adaptive trait Plant traits can be identified through image based plant phenotyping a process that was until recently strenuous and time consuming Intelligent Image Analysis for Plant Phenotyping reviews information on time saving techniques using computer vision and imaging technologies These methodologies provide an automated non invasive and scalable mechanism by which to define and collect plant phenotypes Beautifully illustrated with numerous color images the book focuses on phenotypes measured from individual plants under controlled experimental conditions which are widely available in high throughput systems Features Presents methodologies for image processing including data driven and machine learning techniques for plant phenotyping Features information on advanced techniques for extracting phenotypes through images and image sequences captured in a variety of modalities Includes real world scientific problems including predicting yield by modeling interactions between plant data and environmental information

Discusses the challenge of translating images into biologically informative quantitative phenotypes A practical resource for students researchers and practitioners this book is invaluable for those working in the emerging fields at the intersection of computer vision and plant sciences

**Competition Science Vision** ,1999-11 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue

Advances in Legumes for Sustainable Intensification  
 Ram Swaroop Meena,Sandeep Kumar,2022-06-29 Advances in Legume based Agroecosystem for Sustainable Intensification explores current research and future strategies for ensuring capacity growth and socioeconomic improvement through the utilization of legume crop cultivation and production in the achievement of sustainability development goals SDGs Sections cover the role of legumes in addressing issues of food security improving nitrogen in the environment environmental sustainability economic environmentally optimized systems the importance and impact of nitrogen organic production and biomass potential legume production biology breeding improvement cropping systems and the use of legumes for eco friendly weed management This book is an important resource for scientists researchers and advanced students interested in championing the effective utilization of legumes for agronomic and ecological benefit Focuses on opportunities for agricultural impact and sustainability Presents insights into both agricultural sustainability and eco intensification Includes the impact of legume production on societal impacts such as health and wealth management

*Biotechnology, Multiple Omics, and Precision Breeding in Medicinal Plants* Jen-Tsung Chen,2025-03-27 Biotechnology Multiple Omics and Precision Breeding in Medicinal Plants explores the various methods for advancing medicinal plant research It covers a wide range of approaches including integrated and advanced plant biotechnology mutagenesis nanotechnology genome wide association studies multiple omics tools and high throughput technologies The book highlights the significant impact of combining pan genomics with metabolomics in medicinal plant research particularly in understanding how genetic diversity influences the profiles of secondary metabolites and the therapeutic potential of these plants

**FEATURES** Explores ways to improve the production of secondary metabolites and bioactive compounds in key medicinal plants Features information on bioinformatics artificial intelligence models molecular markers and genome editing techniques such as CRISPR assisted precision breeding Promotes specific prebiotic formulas to ward off adverse effects of antibiotics Covers information on epigenetic regulation in boosting secondary metabolite production and the use of speed breeding combined with high throughput technologies Proposing a multitude of technologies and methodologies in plant biotechnology with focus on enhancing the production of

secondary metabolites and bioactive compounds from medicinal plants this book is an ideal resource for researchers and academia in plant sciences breeding agriculture and horticulture industries

**Advances in Plant Breeding Strategies: Cereals** Jameel M. Al-Khayri, Shri Mohan Jain, Dennis V. Johnson, 2019-10-11 This book examines the development of innovative modern methodologies towards augmenting conventional plant breeding in individual crops for the production of new crop varieties under the increasingly limiting environmental and cultivation factors to achieve sustainable agricultural production enhanced food security in addition to providing raw materials for innovative industrial products and pharmaceuticals This Volume 5 subtitled Cereals focuses on advances in breeding strategies using both traditional and modern approaches for the improvement of individual crops It addresses important staple food crops including barley fonio finger millet foxtail millet pearl millet proso millet quinoa rice rye tef triticale and spelt wheat The volume is contributed by 53 internationally reputable scientists from 14 countries Each chapter comprehensively reviews the modern literature on the subject and reflects the authors own experience

*Plant Breeding Reviews, Volume 9* Jules Janick, 2010-04-20 Plant Breeding Reviews is an ongoing series presenting state of the art review articles on research in plant genetics especially the breeding of commercially important crops Articles perform the valuable function of collecting comparing and contrasting the primary journal literature in order to form an overview of the topic This detailed analysis bridges the gap between the specialized researcher and the broader community of plant scientists

Genomic Selection in Plants Ani A. Elias, Shailendra Goel, 2022-08-18 Genomic selection GS is a promising tool in the field of breeding especially in the era where genomic data is becoming cheaper The potential of this tool has not been realized due to its limited adaptation in various crops Marker Assisted Selection MAS has been the method of choice for plant breeders while using the genomic information in the breeding pipeline MAS however fails to capture vital minor gene effects while focusing only on the major genes which is not ideal for breeding advancement especially for quantitative traits such as yield The main aim of statistical methodologies coming under the umbrella of GS on using the whole genome information is to predict potential candidates for breeding advancement while optimizing the use of resources such as land manpower and most importantly time Lack of proper understanding of the methods and their applications is one of the reasons why breeders shy away from this tool The book is meant for biologists especially breeders and provides a comprehensive idea of the statistical methodologies used in GS guidance on the choice of models and design of datasets The book also encourages the readers to adopt GS by demonstrating the current scenarios of these models in some of the important crops among oilseeds vegetables legumes tuber crops and cereals For ease of implementation of GS the book also provides hands on scripts on GS data design and modeling in a popular open source statistical program Additionally prospective in GS model development and thereby enhancement in crop improvement programs is discussed

The Mungbean Genome Ramakrishnan M. Nair, Roland Schafleitner, Suk-Ha Lee, 2020-02-21 This book reports on the current global status of mungbean and its economic importance Mungbean Vigna

radiata also called green gram is an important food and cash crop in the rice based farming systems of South and Southeast Asia but is also grown in other parts of the world Its short duration low input requirement and high global demand make mungbean an ideal rotation crop for smallholder farmers The book describes mungbean collections maintained by various organizations and their utilization especially with regard to adapting mungbean to new environments It provides an overview of the progress made in breeding for tolerance to biotic and abiotic stresses nutritional quality enhancement including genomics approaches and outlines future challenges for mungbean cultivation In addition genomic approaches to evaluating the evolutionary relationship between Vigna species and addressing questions concerning domestication adaptation and genotype phenotype relationships are also discussed **Fundamentals of Plant Breeding** H. Kuckuck,G. Kobabe,G.

Wenzel,2020-05-18 No detailed description available for Fundamentals of Plant Breeding **The New Zealand Journal of Science and Technology** ,1925 **Basic Concepts of Plant Science** S.K. Bangarwa,D. Singh,2017-12-01 Basic Concepts of Plant Science covers all the important chapters of Genetics and Plant Breeding Plant Pathology Microbiology Seed Science and Technology IPR Statistics and Agriculture Biotechnology Tables provide information about history of all the subjects of plant science In order to have better understanding of the topic figures have been incorporated wherever required Statistics and Biotechnology have been discussed in detail The chapters are arranged in the order of increasing technical complexity The book contains about 100 fill in the blanks 500 MCQs and memory based questions from previous years ICAR examinations with their answers hence it is a complete book on Plant Science **Plant Breeding** Jack Brown,Peter

Caligari,Hugo Campos,2014-11-17 This book Plant Breeding has it 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

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