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HETEROSIS breeding basics and its Genetic basis

3AB–Chapter 6 (Fruits \u0026 Vegetables)

Tomato Botany, heterosis and hybridization*Maturity Indices of Fruits and Vegetables* ~~Genetic Basis of Heterosis | Dominance and Overdominance theory | Vikas Mangal (Scientist, CRIJAF)~~

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Tab le 2: Range of Heterosis (Per cent) for Yield T raits in Important Vegetable Cr ops Crop Fruit W eight No. of Fruits Yield Reference T omato 17 83 62 Ahmad et al. (2011)

(PDF) Harnessing heterosis in vegetable crops

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1939. heterosis in summer squash (cucurbita pepo) and the possibility of producing f 1 hybrid seed for commercial planting. amer. soc. hort. sci. proc. 37: 827-828. _____ 1948. the use of naked seed in cucurbita pepo as a source of high quality liquid vegetable fat, as a high analysis protein, as a new confection, and as a sandwich spread. amer ...

Chapter 6: Common Vegetables for Seed and Fruit

Tomato hybrids giving the best results in the Arctic, Volga and Caucasus respectively are named and data are presented on their contents of dry matter, sugars, ascorbic acid and total acidity in comparison with the respective parents. In trials in the Caucasus with 37 hybrids from male-sterile parents, 7 showed clear improvements over the pollen parent in respect of chemical composition, 11 ...

Heterosis for chemical composition in vegetables.

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P. PECAUT, in Genetic Improvement of Vegetable Crops, 1993. F 1 hybrids. Heterosis is important for several useful attributes: vigour of the young plants, and early and total yield. Analysis of the total yield shows that heterosis exists both for head number and head weight. Head quality often improves as some defects of the parent lines are recessive.

Heterosis - an overview | ScienceDirect Topics

Tkaeenko FA (1963) Results of investigations on heterosis in vegetables in the Ukraine. Plant Breed Abstr 35:5251 Google Scholar

Heterosis in Vegetable Crops | SpringerLink

Chapter 6: Common Vegetables for Seed and Fruit. COLE CROPS 23 ... recommended two colonies per acre of all vegetable seed. Odland and Noll (1950) stated that a colony of bees located by their plots increased the seed yields. Oldham (1948) stated that having "a few colonies of bees dotted around the field" was a distinct advantage ...

Chapter 6: Common Vegetables for Seed and Fruit

The technical program covered actual and potential contributions of heterosis to food security and natural resource conservation through its use in a range of crops—including maize, rice, wheat, sorghum, millets, cotton, vegetables, and oil seeds. Of particular interest were the studies on the genetic, physiological, biochemical, and ...

Genetics and Exploitation of Heterosis in Crops | ASA ...

Heterosis dominated the thinking of plant and animal geneticists in the 1940s and 1950s as evidenced by the now classic book entitled Heterosis edited by John W. Gowen and published by Iowa State University Press. In fact, the entire U.S. hybrid maize industry and much of the world maize industry is founded on heterosis.

Concepts and Breeding of Heterosis in Crop Plants | CSSA ...

It is usually spread among humans by food handlers with poor personal hygiene. Foods most often incriminated in the transmission have been potato salad, shellfish, raw vegetables, and Mexican...

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Heterosis is confirmed more and more as a basic, highly effective breeding method applied in an ever-growing number of agricultural crops for developing early, high-yielding, uniform cultivars, which combine additionally a number of other valuable economic characters.

Heterosis in the Tomato | SpringerLink

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When trying to solicit authors for this book it became apparent that the causal factors for heterosis at the physiological and biochemical level are today almost as obscure as they were 30 years ago. Though biometrical-genetical analyses point to dispersion of complementary genes - not overdominance - as the major cause of the phenomenon, plant breeders' experience still suggests a cautious, pragmatic approach to the dominance-overdominance controversy in breeding hybrid cultivars. Thus we are faced with a striking discordance between our limited comprehension of the causal factors and mechanism of heter osis on the one hand, and the extensive agricultural practice of utiliza tion of hybrid vigor on the other. Such utilization is the result of the economic value of hybrid combinations displaying superior yields and qualities as well as stability of performance, of benefits derived in breeding programs, and of the enhanced varietal protection of proprietary rights. No comprehensive and critical analysis of the phenomenon of heterosis in economic plants has been published for the last three decades since the now classical book Heterosis, edited by J . W. Gowen (Iowa State College Press, Ames, Iowa, 1952). The present book attempts to fill the gap and to assess the status of our present knowl edge of the concept, the basis, the extent, and the application of heterosis in economic plants.

With reference to India.

1. Master Guide Agriculture Science deals with the Agricultural Entrance exams 2. Covers various sections and makes a complete study package 3. Book is divided into 8 Units and total of 22 Chapters 4. Ample number of MCQs in each chapter 5. Latest question papers of various exams for practice 6. Equally useful for UPSC, State PSCs, ARS, JRF, NET & BHU covers Agriculture Science subject. Agriculture, being the main contributor to the Indian Economy, it serves as a backbone to the country. Even today, the source of livelihood of more than 65% country’s population depends on it. With the increasing innovation in this sector, the opportunities are also increasing, attracting many students to opt for Agriculture Science as a full time career. Prepare yourself with the revised edition of “Master Guide Agriculture Science” that has been framed keeping in view the entrance exams conducted by the UPSC exams. Giving the complete coverage to the syllabus, this book is divided in 22 Chapters categorized under 8 Units. Theories given in every chapter helps students to know the concepts clearly. To mark your preparation on point, this guide provides Solved Papers of FSO, AAO and BHU M.Sc. for practice. The book will be equally useful for UPSC, State PSCs, ARS, JRF, NET & BHU which covers the subject of Agriculture Science. As the book contains ample number study as well as practice material, it for sure will help the aspirants score high in the upcoming examinations. TABLE OF CONTENT UNIT - 1: Agriculture Science, UNIT – 2: Gardening, UNIT – 3: Genetics and Plant Breeding, UNIT – 4: Soil Science and Fertility and Fertilizers, UNIT – 5: Plant and Pathology and Entomology, UNIT – 6: Agriculture Extension and Agriculture Economics, UNIT – 7: Agriculture Statistics, UNIT – 8: Animal Science and Dairy Science, Glossary, Question Papers: FSO, AAO, BHU M.Sc.

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 9, subtitled Vegetable Crops: Fruits and Young Shoots, consists of 12 chapters focusing on advances in breeding strategies using both traditional and modern approaches for the improvement of individual vegetable crops. Chapters are arranged in 2 parts according to the edible vegetable parts. Part I: Fruits - Bell Pepper (Capsicum annuum L. var. grossum Sendt.), Chili pepper (Capsicum frutescens L.), Bitter gourd (Momordica charantia L.), Bottle gourd (Lagenaria siceraria (Molina) Standl.), Eggplant (Solanum spp.), Okra (Abelmoschus esculentus L.), Plantain (Musa paradisiaca L.), Sweet gourd (Cucurbita moschata Duch. ex Poir.), Melon (Cucumis melo L. Groups Dudaim and Flexuosus), Tomato (Solanum lycopersicum L.) and Zucchini (Cucurbita pepo L.) and Part II: Young shoots - Asparagus (Asparagus officinalis L.). The chapters were contributed by 43 internationally reputable scientists from 11 countries. Each chapter comprehensively reviews the modern literature on the subject and reflects the authors own experience.

Get all the resource information you need on hybrid vegetable development—in one book! Discover the latest concepts in breeding and development of hybrid vegetables with Hybrid Vegetable Development. Respected authorities share their views on the most recent trends and the techniques used for hybrid vegetable development in various vegetable crops. This one book could become your comprehensive source for all aspects of breeding, development, and seed production. Hybrid Vegetable Development provides a huge volume of background information on eighteen of the most important world vegetable crops, including tomato, eggplant, hot pepper, bell pepper, cabbage, broccoli, cauliflower, onion, garden pea, and melons. Packed with helpful illustrations, diagrams, and tables, this book goes in-depth into hybrid development mechanisms, crop/floral biology, pollination control mechanisms genetics, breeding, and the exploitation of hybrid seed production on a commercial scale. Hybrid Vegetable Development covers: crop biology heterosis pollination control mechanisms hybrid seed production maintenance of inbred/pure lines seed production of major vegetables detailed descriptions of the mechanisms in hybrid vegetable development the status of transgenic vegetables Hybrid Vegetable Development is a valuable, comprehensive resource for agriculture industry experts and professionals, professors, and students.

The Aim Of This Book Is Twofold: First, To Give An Introduction To The Essential Principles Of Genetics And Cytology, And Secondly, To Give An Account Of Recent Results In Relation To Horticulture. The Science Of Genetics Has A Wide Horticultural Application; It Is Of Value To The Plant-Breeder, Seeds-Man And Gardener In Providing A Detailed Knowledge Of Variation And Heredity, And Guidance In The Maintenance Of Purity In Their Stocks. Genetics May Also Be Of Value To The Nurseryman Whose Business Lies In The Vegetative Reproduction Of Plants. Our Knowledge Of The Genetics Of Polyploids Has Been Largely Developed From Investigations With Horticultural Plants, Hence The Genetics Of Garden Plants Is Of Direct Interest To The Student Of Genetics As Well As Of Use To The Plant-Breeder And Horticulturist. The Book Describe Principles As Simply As The Technicalities Of Subject Will Allow, Illustrating Them With Typical Examples From A Range Of Flowers, Fruits And Vegetables, And To Give Reference To The Original Sources Of Information Which May Be Of Interest To The Scientists Or Students. The Book Will Serve As An Introduction To The Science Of Genetics And Particularly In Its Application To Horticulture. Contents Chapter 1: The Genetics Of Diploid Plants, Reproduction, Genetics, Cytology, Heredity, The Gene, Dominance, Segregation, Pure Lines, Incomplete Dominance, Mendelian Ratios, Complementary Genes, Interaction Of Genes, Lethal Genes, Multiple Allelomorphs, Linkage, Qualitative And Quantitative Characters, Extra-Nuclear Inheritance; Chapter 2: The Cytology Of Diploid Plants, The Chromosomes, Mitosia, Meiosis, Germ-Cell Formation And Fertilisation, The Genes, Linkage, Crossing-Over, Linkage In Zea Mays, Chromosome Arrangement; Chapter 3: The Cytology And Genetics Of Polyploids, Aneuploids, The Origin Of Polyploids, The Auto-Polyploid, The Allo-Polyploid, Secondary Polyploids, Secondary Association, Polyploids And Segregation, Chromatid Segregation, Multiple Genes, Hybridisation And Polyploidy, Asexual Reproduction, Apomixis, Parthenogenesis, Vivipary; Chapter 4: Flowering And Ornamental Plants, The History And Genetics Of The Sweet Pea, The Garden Stock, Primula Sinensi, The Diploid And Tetraploid Forms, Nemesia Strumosa, Herbaceous Plants, Inter-Specific Hybrids, Delphinium, Iris; Chapter 5: The Chemical And Genetical Basis Of Flower Colour, Anthocyanins, Anthoxanthins, Plastid Pigments, The Chemistry And Genetics Of Flower Colour In Streptocarpus, Callistephus, Dianthus Caryophyllus, Dahila And Papaver; Chapter 6: Vegetable And Salad Plants, The History And Genetics Of The Tomato, The Induction And Genetics Of Tetraploid Tomatoes, Thi History Of The Garden Pea, Mendel S Investigations, The Genetics Of The Garden Pea, Radish, Lettuce, Onion, Beetroot, Cucumber, Melon, Cabbage, The History And Genetics Of The Potato; Chapter 7: Fruits, The Genetics Of Peeches And Neetarines, Correlations And Disease Resistance, The Inheritance Of Colour And Sex In Raspberries, Rubus Chamaemorus, Goosebrries, Currants, Cherries, Grapes, The Origin And Development Of The Garden Strawberry, The Cherry Plum, Prunus Domestica, Pears, Apples, Diploid And Triploid Forms; Chapter 8: Heterosis, Theory Of Heterosis, Linkage, Heterosis In Maize, In Asexual Reproduced Plants, Sorghum, Egg Plant, Tomato, Onion, Male Sterility And Heterosis; Chapter 9: Bud-Sports, Variations And Fluctuations, Bud-Sports, Graft Chimaeras, Method Of Production, Solanum Chimaeras, Cytisus Adami, Crataegomespilus, Apple Graft Chimaeras, Autogenous Chimaeras, Bouvardia, Pelargonium, Apple, Citrus, Plum, Pear, Potato, Coleus, Rose, Infectious Transmission, Somatic Variations And Plant-Breeding, Variegated Plants, Fluctuations, Environment; Chapter 10: Incompatibility, Self And Cross-Pollination, Pollen Tube Growth, The Inheritance And Behaviour Of Incompatibility, Self- And Cross-Incompatibility In Nicotiana, Veronica, Verbascum, Cherries, Plums, Polyploidy And Incompatibility, Apples And Pears, Economic Aspects, Heterostylism; Chapter 11: Sterility, Generational Sterility, The Gene-Cells And Sterility, Sterility And Chromosome Number, Rubus, Prunus, Fragaria, Vaccinium, Apples And Pears, Triploidy And Sterility, Inter-Specific Sterility, Relationship Of Chromosomes And Fertility, Chromsome Doubling, Morphological Sterility, Strawberries; Chapter 12: Xenia, The Action Of Foreign Pollen, On The Developing Zygote, The Endosperm, On Maternal Tissue; Chapter 13: The Origin Of New And Improved Forms, Gene Mutations, Cultivation, Auto-Polyploids, Inter-Specific Hybrids, Allo-Polyploids, The Origin Of Dahila Variabilis, Prunus Domestica, Aesculus Carnea, Rubus Loganobaccus, Primula Kewensis, Etc., Constant Hybrids, The Induction Of Mutation And Polyploids, Polyploidy, Fertility And Variation, The Cumulative Effects Of Genes, Breeding For Specific Purposes: Hardiness, Resistance To Disease, Etc., Hybrid Vigous, The Process Of Evolution; Appendix I: Chromosome Numbers Of Cultivated Plants; Appendix Ii: Glossary; Appendix Iii: Bibliography.

Mutation breeding has been introduced into modern plant breeding in the early 1940's. In spite of pessimistic predictions, the application of experimental mutagenesis has led to encouraging results demonstrating that mutation breeding is a well-functioning method in many crops. So far, more than 500 varieties, developed by means of induced mutations, have been officially released; others have been approved for registration. Many mutants with characters of agronomic interest cannot be utilized directly because of their unsatisfying yielding capacities, or of other negative traits which are partly due to the pleiotropic action of the mutant genes. Sometimes their negative selection value can be overcome by transferring them into the genomes of other varieties. According to experience available, the efficiency of mutant genes can conSiderably vary depending on the genotypic background in which they become effective. The interactions between mutant genes and genotypic back ground cannot be predicted. Therefore, mutants with valuable traits should be crossed with many varieties and strains in order to discern positive and negative interactions. In this way, genotypes can be selected in which the mutant gene is able to express its action without showing negative by-effects. This procedure has been used for about 10 years by combining the methods of mutation and crossbreeding. Mutation breeding is predominantly used in annual diploid and allo polyploid self-fertilizing crops, while it causes much more difficulties in cross-pollinating species.

Heterosis and Hybrid Seed Production in Agronomic Crops discusses how heterosis or “hybrid vigor” has played a major role in improving crop productivity and quality in order to feed the ever-increasing human population, particularly in developing countries. Plant breeders, agronomists, seed producers, and farmers will discover why the development of hybrids in the world's major food crops and why the methods of hybrid seed production are critical for achieving this goal. This landmark book deals with heterosis and hybrid seed production of major agronomic crops such as wheat, rice, maize, sorghum, cotton, sunflower, and rapeseed. Through Heterosis and Hybrid Seed Production in Agronomic Crops, you will discover valuable information on hybrid seed production methods that is not available in any other single volume. This unique book contains relevant and essential information about important procedures to help increase crop yield, including: methods for deriving second cycle inbred lines for hybrid maize possibilities for hybrid seed production in wheat techniques of hybrid sorghum seed production production of hybrid seeds using male sterile lines of cotton agronomic management in seed production plots of sunflower seed production technology of hybrid rapeseed advances in hybrid seed production technology of rice in China Heterosis and Hybrid Seed Production in Agronomic Crops gives you a global perspective on essential food crops in all parts of the world. This informative guide will help you use hybrid seed production methods with important agricultural crops and increase the quality of these vital and essential food sources.

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