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Brahma Deo SinghBrahma Deo Singh is currently Emeritus Professor at School of Biotechnology, Banaras Hindu University, Varanasi, India. He obtained his Bachelor's degree in agriculture from Allahabad Agricultural Institute, Allahabad, India and Master's degree in Agricultural Botany from Government Agricultural College, Kanpur, India with first position in the university, and was awarded the University Gold Medal. He earned his Ph.D. degree from University of Saskatchewan, Saskatoon, Canada. Prof. Singh has 40 years of teaching and research experience in the areas of genetics and breeding of pulse crops, plant tissue culture, biological nitrogen fixation, and molecular markers. He has published over 150 research papers in reputed journals and authored several books in genetics, plant breeding and biotechnology. He was awarded the First Prize of the Dr. Rajendra Prasad Puraskar in 1987 and 1990 by the Indian Council of Agricultural Research, New Delhi for the books PadapPrajanan and Anuvanshiki, respectively. Ashok Kumar SinghAshok Kumar Singh, Fellow of National Academy of Agricultural Sciences, India, is at present Head, Division of Genetics at the prestigious Indian Agricultural Research Institute, New Delhi. He completed his bachelor's and Master's degrees from Banaras Hindu University, Varanasi, India, and obtained his Ph.D. degree from the institute where he is currently working as a dedicated teacher and rice breeder. He has been associated with the development of eleven Basmati rice varieties, including the first superfine grain aromatic rice hybrid Pusa RH 10, which combine earliness with higher yield and higher per day productivity with excellent grain and cooking quality. He has successfully integrated marker-assisted selection for incorporating resistances to bacterial blight, blast, brown plant hopper drought, salinity and submergence in rice varieties. His current research interests include TILLING, bio-prospecting for genes and novel alleles, and marker-assisted breeding in rice. He is well recognized for his contributions to Basmati rice breeding and marker-assisted breeding. He has over 70 research publications in journals of international repute, and he has been honoured by several awards, including Borlaug Award-2012, Rafi Ahmad Kidwai Award-2013 for research contributions and Bharat Ratna Dr. C. Subramaniam Award-2013 for contribution to teaching. Biotechnology Expanding Horizons by B.D. Singh Edition, 2020 Be the first to review "Biotechnology Expanding Horizons by B.D. Singh Edition, 2020" Cancel reply Page 2 MBD Comparative Political Systems for 5th Sem. B.A. Part 3. (P.U.) by V.K. 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Sareen & Ajay Sharma, Edition 2020" Cancel reply Page 8 Sale Clothing, Textiles and Laundry for Sushma Gupta & Neeru Garg, Edition 2020 Want more? Advanced embedding details, examples, and help! B.D. SinghDr. Brahma Deo Singh, M.Sc. (Kanpur University), Ph.D. (University of Saskatchewan, Canada) was Emeritus Professor, School of Biotechnology, Banaras Hindu University (BHU), Varanasi, India. He joined the university in 1973 and has been teacher, active researcher, mentor of several scientists/scholars. Dr. Singh has published over 150 research papers in reputed journals, and has authored over two dozen books in the areas of plant breeding, genetics, and biotechnology. Some of his very popular books are Plant Breeding: Principles and Methods (10th edn), Genetics (3rd edn), Fundamentals of Genetics (4th edn), Biotechnology (5th edn), Biotechnology: Expanding Horizons (4th edn), and Plant Biotechnology (3rd edn). His books Padap Prajanan: Siddhant Evam Vidhyan, and Anuvanshiki Ke Adhar were awarded the first prize of the Dr Rajendra Prasad Puraskar of ICAR, New Delhi. His book Marker Assisted Plant Breeding: Principles and Practices (2015, Springer) has been well received internationally.N.S. ShekhawatDr. Narpat Singh Shekhawat retired as Professor of Botany (UGC-Center for Advanced Studies in Botany) after a dedicated tenure of 36 years of teaching at the Jai Narain Vyas University, Jodhpur. During this period he served as Head of the Botany Department, in-charge of the Biotechnology Unit/DBT Network project, and coordinator of the UGC-SAP/COSIST and DST-FIST programs in Botany. Prof. Shekhawat has published over 125 research papers in journals of repute and has co-edited the book Plant Tissue Culture and Molecular Markers: Their Role in Improving Crop Productivity. He has taught Cell biology, Genetics, Molecular biology and plant breeding to M.Sc. (Botany) students. He has been Post-doctoral Research Associate at Department of Biology, Yale University, recipient of Biotechnology Overseas Research Associateship of DBT, Government of India, and worked at the University of Minnesota, St. Paul, USA as visiting scientist in plant genomics. He has been mentor for Ph.D./M.Phil. Students/post-doctoral fellows/young scientists/UNESCO-Keizo Obuchi fellow, and served as National Correspondent (India Chapter) of International Association of Plant Biotechnology (IAPB). He is member of State Higher Education Council of Rajasthan. We use cookies to remember your preferences such as preferred shipping country and currency, to save items placed in your shopping cart, to track website visits referred from our advertising partners, and to analyze our website traffic. Privacy Details Description Table of Contents Product Details Click on the cover image above to read some pages of this book! Marker-assisted plant breeding involves the application of molecular marker techniques and statistical and bioinformatics tools to achieve plant breeding objectives in a cost-effective and time-efficient manner. This book is intended for beginners in the field who have little or no prior exposure to molecular markers and their applications, but who do have a basic knowledge of genetics and plant breeding, and some exposure to molecular biology. An attempt has been made to provide sufficient basic information in an easy-to-follow format, and also to discuss current issues and developments so as to offer comprehensive coverage of the subject matter. The book will also be useful for breeders and research workers, as it offers a broad range of up-to-the-year information, including aspects like the development of different molecular markers and their various applications. In the first chapter, the field of marker-assisted plant breeding is introduced and placed in the proper perspective in relation to plant breeding. The next three chapters describe the various molecular marker systems, while mapping populations and mapping procedures including high-throughput genotyping are discussed in the subsequent five chapters. Four chapters are devoted to various applications of markers, e.g. marker-assisted selection, genomic selection, diversity analysis, finger printing and positional cloning. In closing, the last two chapters provide information on relevant bioinformatics tools and the rapidly evolving field of phenomics. Part 1-General.- 1. Introduction to Marker-Assisted Crop Improvement.- Part 2-Genetic Markers.- 2. Hybridization-Based Markers.- 3. Polymerase Chain Reaction-Based Markers.- 4. Sequence-Based Markers.- Part 3-Linkage Maps.- 5. Mapping Populations.- 6. Linkage Mapping of Molecular Markers and Oligogenes.- 7. Mapping of Quantitative Trait Loci.- 8. Association Mapping.- Part 4-Applications.- 9. Marker-Assisted Selection.- 10. Genomic Selection.- 11. Phylogenetic Relationships and Genetic Diversity.- 12. Finger printing and Gene Cloning.- 13. High-Throughput Genotyping.- 14. Bioinformatics Tools and Databases for Genomics Research.- 15. Phenomics ISBN: 9788132223153 ISBN-10: 8132223152 Audience: Tertiary, University or College Format: Hardcover Language: English Number Of Pages: 514 Published: 10th July 2015 Publisher: Springer, India, Private Ltd Country of Publication: IN Dimensions (cm): 25.4 x 17.8 x 3.81 Weight (kg): 1.18 Current Trends in the Embryology of Angiosperms Principles of Plant Breeding Progress in Biotechnology - Vol 18 Volume 18 Home Competition booksAuthorPublicationRajasthan Exam BooksCA,CS Exams BooksTeaching Exam BooksDelhi Related Exams BooksAcademic 2021 Exam Books Language Default Store View

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