

Genetica Agraria

This book consists of the proceedings of a symposium organized by the Accademia Nazionale dei Lincei, Rome. The proceedings are unusual in that it is a rare event to see archaeologists and geneticists coming together to discuss the connection between historical facts and biological phenomena. The aim of the symposium was to discuss the origin of some important cultivated plants (wheat, maize, barley, oat, legumes and fruit trees) not only in relation to genetical mechanisms but also as a complex of historical facts recognizable through archaeological research. This international Meeting based on interdisciplinary concepts, met with a prompt and positive reaction from all those specialists invited to attend. The book itself is an unparalleled contribution to the interdisciplinary knowledge on the origin of crop plants and agriculture.

The volume contents aspects as crops i.e. Clusterbean, Mothbean, Cowpea, Horsegram, Mungbean, Rice bean, Indian bean, Winged bean and other minor pulses grown in arid and semi-arid regions.

Genetics, the most rapidly advancing of the life sciences, has stimulated more diverse disciplines in the natural and social sciences than any other field. Contributions from scientists of varied

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backgrounds--anthropologists, chemists, computer specialists, engineers, mathematicians, paleontologists, physicians, and physicists--to its development is one major reason for its prodigious growth. Such growth is accompanied by a proliferation in terminology, which creates a problem both to beginning students and scientists from other disciplines who read papers by geneticists. Various terms, especially in molecular and cell biology, are newly coined and thus not found in any collegiate or biology dictionaries; in some cases, species names are even unfamiliar to students with little or no background in taxonomy. This fifth edition of the much-needed Dictionary of Genetics contains over 6,500 definitions of terms and species names relevant to the study of genetics. The entries include both strictly genetic and non-genetic terms often encountered in the literature. Also featured is a classification where all the species cited in the text are cross-referenced. There is a chronology covering the period from 1590 to 1996, and its 790 entries are cross-referenced in the appropriate definitions. The chronology is followed by an extensive bibliography and an index of the scientists cited. The final appendix lists Genetic Databases. Thus the book is helpful not only to beginning geneticists, but anyone involved in life sciences. Physicians for example will find at least 50 citations to human hereditary diseases, along with entries on the breast cancer

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susceptibility genes, cystic fibrosis, familial hypercholesterolemia, fragile X-associated mental retardation, and many other topics. The 250 illustrations and tables add to the unique value of this reference.

Wheat has a long history of serving as an important food crop to mankind. Especially in the Northern Hemisphere, it has been appreciated as a major source of energy through its carbohydrates, and in more recent times for its supply of valuable proteins. This combination of carbohydrates and proteins gives wheat its unique properties for making breads of different kinds of tastes. During the course of history, the quality of wheat has improved steadily, undoubtedly for a long time by accident, and for reasons little understood. Over the last 150 years our knowledge has increased on farming and crop husbandry, on bringing about improvements through goal-oriented plant breeding, and on milling and baking technology, leading to the standards that we enjoy today. This process will certainly continue as our knowledge of the genetic reservoir of wheat species increases. The European Cereal Atlas Foundation (ECAAF) maintains the aim of increasing and disseminating knowledge about cereal crops. Within that scope ECAAF has decided to publish a book on the history of bread wheat in Europe, the development of associated bread-making technology, and the breeding of bread wheats during the twentieth century. As ECAAF is a Dutch foundation, its Board is particularly pleased to have found three Dutch scientists willing to contribute to this volume. Two of them have served wheat science in the Netherlands for their entire scientific careers, spanning a period starting around 1955 and lasting for several decades of very productive wheat science development. This unique volume is not just an in-depth analysis of

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Professor Swaminathan's brilliant contributions to basic cytogenetics, radiation biology, mutagenesis and genomic affinities of cultivated potato and its wild derivatives, but also the application of the new knowledge gained to improve the productivity of agricultural crops, as also to enhance their resistance to a variety of biotic and abiotic stresses. No other earlier biographies of Professor Swaminathan bring out these salient dimensions of his scientific achievements made at the Wageningen University, The Netherlands, Cambridge University, UK, and Wisconsin University, USA as well as Indian Agricultural Research Institute (IARI), New Delhi. This biography is also unique for its revelation that Professor Swaminathan's contributions par excellence have been in contemporary areas of crop improvement for productivity and resistance to pests and diseases. This volume is also unique in bringing out that Professor Swaminathan, Father of India's Green Revolution, wanted to use this chemically intensified system only to gain 'breathing space' and went on to propose a 'systems approach' — based evergreen revolution in order to 'achieve productivity in perpetuity' through various pathways of ecoagriculture, and also integrated it with avenues for on-farm and non-farm livelihoods. Towards this goal, he made innovative uses of ecotechnologies in a 'biovillage' paradigm and modern information and communication technology (ICT) in Village Knowledge Centres (VKCs) to provide skill and knowledge empowerment respectively of the resource-poor rural women and men towards sustainable management of the natural resources for creating income-generating on-farm and non-farm livelihoods. This volume also brings out how Professor Swaminathan elegantly combined intellect and labour (hard work), and professional zeal with compassion for the poor. He is always open to new ideas, and new technologies without of course, compromising the values of traditional knowledge and ecological prudence of the rural

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and tribal people. This volume nicely captures how Professor Swaminathan with a deep and comprehensive understanding of the threats to the ecological foundations of agriculture and sustainable rural development, environmental degradation, social inequities and the climate change risks, has also harnessed science and technology to convert challenges into opportunities. This volume is written in a manner to serve also as a text book, going beyond the scope of just a biography. That should benefit generations of students on one hand, and sustain an interest in the book for many years on the other.

Advances in Asteraceae Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about *Lactuca sativa* in a concise format. The editors have built Advances in Asteraceae Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about *Lactuca sativa* in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Asteraceae Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Plant Breeding Reviews presents state-of-the-art reviews on plant breeding and genetics covering horticultural, agronomic and forestry crops, incorporating both traditional and molecular methods. The contributions are authored by world

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authorities, anonymously reviewed, and edited by Professor Jules Janick of Perdue University, USA. The series is an indispensable resource for crop breeders, plant scientists, and teachers involved in crop improvement and genetic resources. Initiated in 1983, Plant Breeding Reviews is published in the form of one or two volumes per year. Recently published articles include: Epigenetics and Plant Breeding (v30) Enhancing Crop Gene Pools with Beneficial Traits Using Wild Relatives (v30) Coffee Germplasm Resources, Genomics and Breeding (v30) Molecular Genetics and Breeding for Fatty Acid Manipulation in Soybean (v30) Breeding Southern Highbush Blueberries (v30) Development of Fire Blight Resistance by Recombinant DNA Technology (v29)

Need for biotechnology research in Africa;
Enhancing the genetic base; Cell and tissue culture;
Controlled gene manipulation; Using molecular markers; Other selected applications of biotechnology; Policy issues.

Genetica agrariaGenetica agrariaGenetica agrariaGenetica agraria. Genetica e bitecnologie per l'agricolturaGamma Field SymposiaMutation Breeding ReviewBibliografia Sobre Genetica, 1956-1966Bib. Orton IICA / CATIEA Dictionary of GeneticsOxford University Press, USA
Developments in Plant Genetics and Breeding, 1: Isozymes in Plant Genetics and Breeding, Part B

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focuses on the advancements in the processes, methodologies, principles, and approaches involved in the study of isozymes, including its role in plant genetics and breeding. The selection first offers information on maize, hexaploid wheat, and barley. Topics include polymorphism, linkage relations, esterases, evolutionary and crop improvement studies, special applications to genetics and breeding, alcohol dehydrogenase, amylase, catalase, and catechol oxidase. The text then examines Secale and triticales, oats, rice, and tomato. The publication takes a look at potato, peppers, and tobacco. Topics include biochemical characterization of isozymes, isozymes in cell and tissue cultures, glutamate dehydrogenase, lactate dehydrogenase and xanthine dehydrogenase, potato as a source of enzymes, and data for esterases in basic gels. The manuscript also tackles conifers, eucalyptus, fruit trees, cucurbits, and cole crops. The selection is a valuable reference for researchers interested in the role of isozymes in plant genetics and breeding.

Proceedings of a Seminar in the EEC Programme of Coordinated Research on Energy in Agriculture held in Freising-Weihenstephan, FRG, November 4-6, 1986
Genetics and Morphogenesis in the Basidiomycetes documents the proceedings of a symposium on Genetics and Morphogenetic Studies of Basidiomycetes held during the Second International Mycological Congress. The symposium was organized as a memorial symposium to honor the many contributions of John Robert Raper, which included the hormonal control of sexual development in fungi; the biological effects of

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beta radiation; and the genetic control of the incompatibility systems and morphogenesis of sexuality in higher basidiomycetes. The contributions made by researchers at the symposium include studies on control of development by genes of the incompatibility system; the genetic structure of the incompatibility factors of the higher basidiomycetes; and meiosis and recombination in basidiomycetes. Subsequent chapters deal with the evolution of incompatibility; the incompatibility system as a model for the regulation of cell differentiation; morphogenic processes in *Schizophyllum commune* and *Coprinus lagopus*; and the regulatory processes which control fruiting.

Cowpea: taxonomy, genetics, and breeding, physiology and agronomy, diseases and parasitic weeds, insect pests, postharvest technology and utilization. Biotechnological applications.

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