

Dictionary Of Plant Genetics And Molecular Biology

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The Facts on File Dictionary of Biotechnology and Genetic Engineering -

Mark L. Steinberg 2001

Defines more than 1900 terms, and serves the research needs of both the student and the advanced researcher.

Plant Genetics and Molecular Biology - Rajeev K. Varshney 2018-09-04

This book reviews the latest advances in multiple fields of plant biotechnology and the opportunities that plant genetics, genomics and molecular biology have offered for agriculture

improvement. Advanced technologies can dramatically enhance our capacity in understanding the molecular basis of traits and utilizing the available resources for accelerated development of high yielding, nutritious, input-use efficient and climate-smart crop varieties. In this book, readers will discover the significant advances in plant genetics, structural and functional genomics, trait and gene discovery, transcriptomics, proteomics, metabolomics, epigenomics, nanotechnology and analytical & decision support tools in breeding. This book appeals to researchers, academics and other stakeholders of global agriculture.

Cumulative Book Index - 1998

A world list of books in the English language.

Principles of Plant Genetics and Breeding -

George Acquaah 2020-09-28

The revised edition of the bestselling textbook, covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to

provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding. Combining both classical and molecular tools, this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants, particularly in response to the increasing demands to of growing populations. Illustrated chapters cover a wide range of topics, including plant reproductive systems, germplasm for breeding, molecular breeding, the common objectives of plant breeders, marketing and societal issues, and more. Now in its third edition, this essential textbook contains extensively revised content that reflects recent advances and current practices. Substantial updates have been made to its molecular genetics and breeding sections, including discussions of new breeding techniques such as zinc finger nuclease, oligonucleotide directed mutagenesis, RNA-dependent DNA methylation, reverse breeding,

genome editing, and others. A new table enables efficient comparison of an expanded list of molecular markers, including Allozyme, RFLPs, RAPD, SSR, ISSR, DAMD, AFLP, SNPs and ESTs. Also, new and updated "Industry Highlights" sections provide examples of the practical application of plant breeding methods to real-world problems. This new edition: Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field, such as CRISPR genome editing and grafting on GM stock Includes numerous illustrations and end-of-chapter self-assessment questions, key references, suggested readings, and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science, particularly those studying plant breeding,

biotechnology, and genetics.

Using The Biological Literature - Diane Schmidt
2001-12-06

"Provides an in-depth review of current print and electronic tools for research in numerous disciplines of biology, including dictionaries and encyclopedias, method guides, handbooks, on-line directories, and periodicals. Directs readers to an associated Web page that maintains the URLs and annotations of all major Internet resources discussed in th

Developmental Genetics - Gurbachan S. Miglani
2013-12-30

Development is behind what one looks like. It is directed by genes, the units of heredity, which are made up to deoxyribonucleic acid (DNA) in all animals (including man), plants, microorganisms and most of the viruses except in some viruses where ribonucleic acid (RNA) is the genetic material. Developmental Genetics integrates the two disciplines of development and genetics into one. Key Features: Each

chapter begins with a brief introduction and historical background. The text explains both classical and recent material. Various phenomena of developmental genetics explained with examples of animals, plant, bacteria and viruses. Text explained with suitable examples, illustrations, tables and figures. List of references and review questions given at the end of each chapter Exhaustive glossary, author index and subject index given at the end of the book. This book is essential reading for postgraduate in developmental genetics, teachers teaching this subject and developmental biologists conducting research in this area. It is also suitable for candidates preparing for ARS/UGC NET examination.

Wheat - E H Satorre 1999-05-06

Discussing the latest processes involved in researching yield generation, *Wheat: Ecology and Physiology of Yield Determination* will help you design various types of crop production systems for maximum yield. Featuring

information on developing high-yielding, low-input, and quality-oriented systems, this book offers you both physiological and ecological approaches that will help you understand the crop as well as increase its production. Discussing aspects of wheat growth for specific regions around the world, *Wheat* provides you with information that will improve the size and quality of your crops, including: how temperature, vernalization, and the photoperiod affect the development of wheat using the correct amount of nitrogen fertilizers for wheat crops an explanation of the reproduction and nitrogen cycles of wheat how elements and conditions such as lipids, proteins, nitrogen, and climate enhance grain quality estimating and determining optimal sowing dates examining factors that may affect wheat yield-density relationships, such as planting arrangement and date of sowing preventing seed decay and examining effects of mildews and leaf blights examining historical trends of the crop to see

what further research needs to be done You'll also receive information on the genetic gains in wheat research that are improving the physiological traits and numerical components of this essential grain. Within Wheat, you'll find data and methods from international experts in the field that will improve the yield and growth of the world's most important crop.

Genetics and Molecular Biology - Robert F. Schleif 1993

In the first edition of Genetics and Molecular Biology, renowned researcher and award-winning teacher Robert Schleif produced a unique and stimulating text that was a notable departure from the standard compendia of facts and observations. Schleif's strategy was to present the underlying fundamental concepts of molecular biology with clear explanations and critical analysis of well-chosen experiments. The result was a concise and practical approach that offered students a real understanding of the subject. This second edition retains that valuable

approach--with material thoroughly updated to include an integrated treatment of prokaryotic and eukaryotic molecular biology. Genetics and Molecular Biology is copiously illustrated with two-color line art. Each chapter includes an extensive list of important references to the primary literature, as well as many innovative and thought-provoking problems on material covered in the text or on related topics. These help focus the student's attention of a variety of critical issues. Solutions are provided for half of the problems. Praise for the first edition: "Schleif's Genetics and Molecular Biology... is a remarkable achievement. It is an advanced text, derived from material taught largely to postgraduates, and will probably be thought best suited to budding professionals in molecular genetics. In some ways this would be a pity, because there is also gold here for the rest of us... The lessons here in dealing with the information explosion in biology are that an ounce of rationale is worth a pound of facts and

that, for educational value, there is nothing to beat an author writing about stuff he knows from the inside."--Nature. "Schleif presents a quantitative, chemically rigorous approach to analyzing problems in molecular biology. The text is unique and clearly superior to any currently available."--R.L. Bernstein, San Francisco State University. "The greatest strength is the author's ability to challenge the student to become involved and get below the surface."--Clifford Brunk, UCLA

Dictionary of Microbiology and Molecular Biology - Paul Singleton 2006-10-16

A unique, encyclopaedic reference work covering the whole field of pure and applied microbiology and microbial molecular biology. This latest edition contains a vast amount of new and updated material - often to research level, and well beyond the coverage of current textbooks - making the dictionary even more valuable to lecturers, students, researchers and others in the biosciences and medicine. Updates

and extends current textbooks 18 000 entries, from concise definitions to review-length articles Extensive cross-referencing between topics Thousands of references from mainstream journals and other specialist sources Over 5000 taxa: algae, archaeans, bacteria, fungi, protozoa and viruses; prions A 30-page Appendix of detailed metabolic pathways A classic book with a lifetime's use! Reviews of the Second Edition ' very informative and extensive valuable reference tool.' FEBS Letters 'The material is well cross-referenced ... Students should find it particularly useful.' Society for General Microbiology ' the uniqueness is in its concise and clear description of terms extremely comprehensive and easy to use.' ARBA *Dictionary of Plant Breeding* - Rolf H. J. Schlegel 2020-07-22

One of the oldest scientific traditions, plant breeding began in Neolithic times with methods as simple as saving the seeds of desirable plants and sowing them later. It was not until the re-

encounter with Mendel's discoveries thousands of years later, the genetic basis of breeding was understood. Developments following have provided further insight into how genes acting alone or in concert with other genes and the environment, result in a particular phenotype. From Abaxial to Zymogram, the third edition of Dictionary of Plant Breeding contains clear and useful definitions of the terms associated with plant breeding and related scientific/technological disciplines. It defines jargon; provides helpful tables, examples, and breeding schemes; and includes a list of crop plants with salient details. Packed with data and organized to make that data easy to access, this revised and expanded reference provides comprehensive coverage of the latest discoveries in cytogenetics, molecular genetics, marker-assisted selection, experimental gene transfer, CRISPR technology, seed sciences, crop physiology, and genetically modified crops. Features: Provides a comprehensive list of

technical terms used in plant breeding Explores the historical development of crop improvement Discusses applications of molecular genetics and biotechnology Includes numerous figures, drawings, tables, and schemes supplementing the glossary A complex subject, plant breeding draws from many scientific and technological disciplines, often making it difficult to know the precise meanings of many terms and to accurately interpret specific concepts. As in the previous editions, this dictionary unifies concepts by including the specific terms of plant breeding and terms that are adjusted from other disciplines. Drawing on Rolf Schlegel's 50 years of experience, the book provides an encyclopedic list of commonly used technical terms that reflect the latest developments in the field. *Cellulose Chemistry and Technology* - 2006

Crop Responses and Adaptations to Temperature Stress - Amarjit Basra
2000-12-14

Examine the ways in which various plants respond when exposed to high and low temperatures! The growing demand for food makes breeding for high-yielding crops with built-in resistance against environmental constraints one of the most important challenges for plant breeders today. *Crop Responses and Adaptations to Temperature Stress* investigates the adaptive mechanisms plants have evolved in response to unfavorable temperature conditions. It describes gene transfer technology and other tolerance improvement techniques that aid in developing stress-tolerant plants. Adverse environmental stress conditions, such as extreme temperatures, affect the productivity of important world food crops by inhibiting plant growth and development. *Crop Responses and Adaptations to Temperature Stress* provides valuable information on the mechanisms of stress tolerance in plants that encourage growth and enhance yield performance. Agriculture professionals, researchers, and plant breeders

will benefit from the ideas shared on such topics as: mechanisms of chilling injury and tolerance injury and acclimation of root system functions during chilling temperatures mechanisms of cold acclimation signal transduction under low-temperature stress mechanisms of thermotolerance in crops control of the heat shock response in crop plants the effects of heat stress on cereal yield and quality *Crop Responses and Adaptations to Temperature Stress* presents detailed discussions on the effects and outcomes of crop exposure to low and high temperatures. The textual information is liberally supplemented with visual representations of field experiment data as well as comprehensive tables and schematic drawings. In addition to a detailed review of current knowledge on the molecular biology of plant responses to temperature stress and an introduction to biotechnological advances in improving crop tolerance, *Crop Responses and Adaptations to Temperature Stress* suggests

avenues for further study and speculates on the implications of such work for the future of food production.

The Dictionary of Cell and Molecular

Biology - John M. Lackie 2012-12-31

The Dictionary of Cell and Molecular Biology, Fifth Edition, provides definitions for thousands of terms used in the study of cell and molecular biology. The headword count has been expanded to 12,000 from 10,000 in the Fourth Edition.

Over 4,000 headwords have been rewritten.

Some headwords have second, third, and even sixth definitions, while fewer than half are unchanged. Many of the additions were made to extend the scope in plant cell biology, microbiology, and bioinformatics. Several entries related to specific pharmaceutical compounds have been removed, while some generic entries (“alpha blockers, “NSAIDs, and “tetracycline antibiotics, for example), and some that are frequently part of the experimentalist’s toolkit and probably never used in the clinic,

have been retained. The Appendix includes prefixes for SI units, the Greek alphabet, useful constants, and single-letter codes for amino acids. Thoroughly revised and expanded by over 20% with over 12,000 entries in cellular and molecular biology Includes expanded coverage of terms, including plant molecular biology, microbiology and biotechnology areas Consistently provides the most complete short definitions of technical terminology for anyone working in life sciences today Features extensive cross-references Provides multiple definitions, notes on word origins, and other useful features **Medical Subject Headings** - National Library of Medicine (U.S.) 2001

Index Medicus - 2002

Dictionary of Plant Genetics and Molecular

Biology - Gurbachan Miglani 2017-11-22

In the Dictionary of Plant Genetics and Molecular Biology, more than 3,500 technical

terms from the fields of plant genetics and molecular biology are defined for students, teachers, and researchers in universities, institutes, and agricultural research stations. An excellent educational tool that will save you time and effort, this dictionary brings together into a single source the meaning and origin of terms from the fields of classical genetics, molecular genetics, mutagenesis, population genetics, statistics, plant biotechnology, evolutionary genetics, plant breeding, and plant biotechnology. Finding and understanding the precise meaning of many terms in genetics is crucial to understanding the foundation of the subject matter. For reasons of space, the glossaries provided at the end of most textbooks are highly inadequate. There is, then, dire need for a dictionary of terms in a single volume. You'll appreciate the helpful approaches and features of Dictionary of Plant Genetics and Molecular Biology, including: no terms that are of limited use, very general, or self-explanatory

cross references for effective access to the materials and economy of space alternate names of terms, denoted with "Also referred to as . . ." or "Also known as . . ." multiple definitions for terms defined by different authors or for terms with different meanings in different contexts authors who coined, described, or contributed toward further understanding of a term are listed and respective publications are included in the Bibliography At last, there is compiled in a single volume the technical terms you need to know in order to understand plant genetics and molecular biology. As your knowledge grows, you'll uncover even more terms that you need to understand. You'll find yourself turning to this handy guide time and time again for help on all levels.

Essentials of Developmental Plant Anatomy

- Taylor A. Steeves 2017

The main aim of this book is to provide a developmental perspective to plant anatomy. Authors Steeves and Sawhney provide

fundamental information on plant structure and development to students at the introductory level, and as a resource material to researchers working in nearly all areas of plant biology i.e., plant physiology, systematics, ecology, developmental genetics and molecular biology. The book is focused on angiosperm species with some examples from different groups of plants. "Essentials of Developmental Plant Anatomy" starts with an introductory chapter and a brief introduction to plant cell structure, which is followed by the structure of the flower, plant reproduction (vegetative and sexual) and the development and structure of embryo - the precursor to the plant body. Each chapter then deals with essential information on the shoot system, diversity of plant cells and tissues, the structure and development of the stem, leaf, root, and the secondary body.

[Intensive Cropping](#) - Sohan S Prihar 2000-01-25
Explore new concepts for maximizing crop yields! Intensive Cropping: Efficient Use of

Water, Nutrients, and Tillage is a compilation of current information on the interdependence of and synergies among water, nutrients, and energy in regard to increasing crop performance. This book explains the need for intensive cropping and explores the technologies and practices necessary for proper management of water, nutrients, and energy. With Intensive Cropping you will learn how to improve the quantity of the world's most important crops using methods that will minimize harm to the environment. This essential guide is a state-of-the-art account of the concepts and practices concerning the integrated use of water, nutrients, and energy in intensive cropping. Intensive Cropping combines basic and applied aspects of soil-water, nutrients, and energy management to help you optimize your crop yields and maximize the efficiency of intensively farmed regions. In Intensive Cropping, you will explore the need for extreme farming and related concerns and concepts, including:

reducing runoff, deep seepage, and evaporation losses supplementing irrigation with surface and ground water understanding the process of water uptake and its effects on root dynamics and water use reducing leaching, erosion, and gaseous losses in your fields using combinations of organic manures, crop residues, chemical fertilizers, and biofertilizers for soil maintenance implementing conventional and emerging tillage systems, such as conservation tillage for improving soil quality examining case studies of contrasting edaphic requirements of rice-wheat systems Intensive Cropping brings you up-to-date on recent advances in the field, supported by relevant experimental observations on environmentally safe and effective ways to increase crop performance. By examining this new research on increasing crop production, you will be able to successfully increase crop yields in various climates and support the growing global demand for such resources.

The Dictionary of Genomics,

dictionary-of-plant-genetics-and-molecular-biology

Transcriptomics and Proteomics - Guenter Kahl 2015-06-17

Now in its fifth edition and for the first time available as an electronic product with all entries cross-linked. This very successful long-seller has once again been thoroughly updated and greatly expanded. It now contains over 13,000 entries, and comprehensively covering genomics, transcriptomics, and proteomics. Each entry contains an extensive explanation, including a comprehensive listing of synonyms and acronyms, and all formulas have been redrawn to create a uniform style, while most of the figures are custom designed for this dictionary. The ultimate reference for all terms in the -omics fields.

Guide to Reference and Information

Sources in Plant Biology - Diane Schmidt 2006

This third edition of a classic bibliography retains the best features of its predecessor, published ten years ago, with greatly expanded

12/20

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coverage of Web sites. Its nearly 1,000 annotated entries focus on core materials for botanists and plant biologists. Organized by topic rather than format, it runs the gamut from Plant Physiology to Genetics and Biotechnology. Introductory chapters discuss the study of plants, characteristics of plant biology literature, and the history of the field and the people in it. This book is for both neophyte and seasoned botanists and their information purveyors.

A Dictionary of Plant Sciences - Michael Allaby 1998

This is the most comprehensive and up-to-date paperback dictionary of botany available. Fully revised for this new edition, with over 5500 clear and concise entries, it will be invaluable to students, amateur botanists and naturalists, and everyone with an interest in plants and their environments. Wide coverage including biochemistry, plant physiology, cytology, ecology, genetics, evolution, biogeography, Earth history, and the Earth sciences World-

wide coverage of taxonomic groups - one-third of the entries are devoted to taxa, from bacteria and fungi to the main groups of flowering and non-flowering plants Many new entries added from the field of molecular biology

DNA Banks - M. Carmen de Vicente 2006
Introduction and overview; State of the art of DNA storage: results of a world wide survey; DNA storage as a complementary conservation strategy; Platforms for DNA banking; The role of bioinformatics in coordinating conservations efforts; DNA banks: a primary resource for conservation research; Tissue collections as a means of storing DNA: a contribution to the conservation of Colombian biodiversity; Opportunities, limitations and needs for DNA banks; A model for DNA banking to enhance the management, distribution and use of ex situ stored PGR.

Medical Subject Headings - 2004

Micropropagation, Genetic Engineering, and

Molecular Biology of Populus - Ned B. Klopfenstein 1997

Thirty-four Populus biotechnology chapters, written by 85 authors, are comprised in 5 sections: 1) in vitro culture (micropropagation, somatic embryogenesis, protoplasts, somaclonal variation, and germplasm preservation); 2) transformation and foreign gene expression; 3) molecular biology (molecular/genetic characterization); 4) biotic and abiotic resistance (disease, insect, and pollution); and 5) biotechnological applications (wood properties, flowering, phytoremediation, breeding, commercialization, economics, and bioethics).

Barley Science - Gustavo A Slafer 2002-03-12

Find up-to-date information on barley for malting, food, and animal feed! This comprehensive book covers every aspect of barley from molecular biology to agronomy of yield and quality. In addition to the exposition of the basic concepts, Barley Science explains the latest developments in the field. In addition, this

remarkable book presents ideas and techniques for bridging the gap between physiology and breeding. Beginning with the history of this ancient cultivated grain, Barley Science presents state-of-the-art information on genetics and breeding, physiology, and agronomy. One chapter explains the CERES computer simulation of barley growth, development, and yield. Every chapter includes a thorough literature review, and you will find many helpful tables and figures. Barley Science offers cutting-edge information on the latest developments in the field, including: wild barley as a source of genes for crop improvement genetics and breeding for specific attributes genetic engineering determining barley yield under stress new breeding strategies for disease resistance choosing genotype, sowing date, and plant density for malting barley enhancing pre-harvest sprouting resistance barley proteins and malting performance Written by the top experts in the field, Barley Science is an excellent

update and broadening of the information found in previous barley books. Agronomists, breeders, geneticists, and physiologists--and their students--will turn again and again to this essential resource.

Plants, Genes, and Crop Biotechnology -

Maarten J. Chrispeels 2003

This book integrates many fields to help students understand the complexity of the basic science that underlies crop and food production.

Basic Genetics - Gurbachan S. Miglani 2000

An exploration of basic genetics. It features discussion of cell division and its significance; chromosomes; multiple alleles; gene-gene interactions; genetic analysis in diploid and haploid eukaryotes; mutations; quantitative inheritance; sex determination; and genetic engineering.

The Dictionary of Genomics, Transcriptomics and Proteomics, 3 Volume Set - Guenter Kahl
2009-03-23

This fourth edition of a very successful longseller

and a leading title is now neatly divided into three volumes, with the text thoroughly updated and expanded by around 30 %. The result is some 12,000 entries providing comprehensive coverage of genomics, transcriptomics and proteomics. Each entry is accompanied by an extensive explanation including a complete listing of synonyms and acronyms and most also contain cross-references to related terms. All the formulas have been professionally redrawn to create a uniform style and most of the figures are custom designed for the dictionary.

Physiological Bases for Maize Improvement

- Gustavo A Slafer 2000-09-25

Improve the quantity and quality of maize crops in any environment! While isolated examples of the physiological bases for genetic improvement of maize yield can be found in several papers (most of which are cited in this book), there has not, until now, been a single volume that delivers and clarifies all of the available information in this field! Today, Physiological

Bases for Maize Improvement offers scientists and crop growers a thorough and concise guide to recent literature and developments about increasing the crop efficiency of corn. In *Physiological Bases for Maize Improvement*, international experts in the field discuss and analyze methods of effectively improving crop breeding and producing better and larger yields of corn. *Physiological Bases for Maize Improvement* delivers clear, thorough discussions of: improving maize grain yield potential in a cool environment improving maize grain yield potential in the tropics processes affecting maize grain yield potential in temperate conditions maize improvement for drought-limited conditions apical dominance, herbivory resistance, and competitive ability the use of simulation models for crop improvement . . . and much more! With this book, you will find ways to improve maize crops in a variety of countries and climates and understand the importance of kernel numbers and kernel

growth to the overall yield. Containing current research and case studies, *Physiological Bases for Maize Improvement* provides you with vital strategies that will improve the quality and quantity of corn and increase plant functionality and fitness.

Encyclopaedic Dictionary of Biology - S. Choudhary 2003

Forest Genetics - Timothy L. White 2007

This book, which contains 20 chapters, integrates the varied subdisciplines of genetics and their applications in gene conservation, tree improvement and biotechnology. Topics covered include: genetic variation in natural forests, the application of genetics in tree improvement and breeding programmes, and genomic sequences and molecular technologies. This book will be a valuable resource for students, scientists and professionals in the plant sciences, especially forest geneticists, tree breeders, forest managers and other natural resource specialists.

A Dictionary of Genetics -

Genetics Manual - G. P. Redei 1998

"Redei has created an outstanding compendium of genetics. Arranged as a dictionary, the book is almost an encyclopedic collection of terms & concepts ... The author has managed to define terms with appropriate mixtures of depth & detail for the researcher, along with clarity useful for the nonexpert." Choice, 1998

Phylogenomics - Rob DeSalle 2020-08-18

Phylogenomics: A Primer, Second Edition is for advanced undergraduate and graduate biology students studying molecular biology, comparative biology, evolution, genomics, and biodiversity. This book explains the essential concepts underlying the storage and manipulation of genomics level data, construction of phylogenetic trees, population genetics, natural selection, the tree of life, DNA barcoding, and metagenomics. The inclusion of problem-solving exercises in each chapter

provides students with a solid grasp of the important molecular and evolutionary questions facing modern biologists as well as the tools needed to answer them.

Elsevier's Dictionary of Medicine and Biology - G. Konstantinidis 2005-08-18

Dictionaries are didactic books used as consultation instruments for self-teaching. They are composed by an ordered set of linguistic units which reflects a double structure, the macrostructure which correspond to the word list and the microstructure that refers to the contents of each lemma. The great value of dictionaries nests in the fact that they establish a standard nomenclature and prevent in that way the appearance of new useless synonyms. This dictionary contains a total of about 27.500 main English entries, and over of 130.000 translations that should normally sufficiently cover all fields of life sciences. The basic criteria used to accept a word a part of the dictionary during the development period in order of

importance were usage, up-to-dateness, specificity, simplicity and conceptual relationships. The dictionary meets the standards of higher education and covers all main fields of life sciences by setting its primary focus on the vastly developing fields of cell biology, biochemistry, molecular biology, immunology, developmental biology, microbiology, genetics and also the fields of human anatomy, histology, pathology, physiology, zoology and botany. The fields of ecology, paleontology, systematics, evolution, biostatistics, plant physiology, plant anatomy, plant histology, biometry and lab techniques have been sufficiently covered but in a more general manner. The latest Latin international anatomical terminology "Terminologia Anatomica" or "TA" has been fully incorporated and all anatomical entries have been given their international Latin TA synonym. This dictionary will be a valuable and helpful tool for all scientists, teachers, students and generally all

those that work within the fields of life sciences.

Plant Biology - Andrew J. Lack 2005

Instant Notes in Plant Biology covers all aspects of modern plant biology. The scope and depth of this text are suitable for a first and second year undergraduate student of plant biology, including molecular biologists and biotechnologists.

Molecular Genetics of Plant Development -

Stephen H. Howell 1998-07-13

The purpose of this book is to present classical plant development in modern, molecular-genetic terms. The study of plant development is rapidly changing as plant genome projects uncover a multitude of new genes. This book provides a framework for integrating gene discovery and genome analysis into the context of plant development. Molecular Genetics of Plant Development is designed to be used as a textbook for upper-division or graduate courses in plant development. The book will also serve as a reference book for scientists in the field of plant

molecular biology or plant molecular genetics. The book is also useful for general development courses in which both animal and plant development are presented.

A Dictionary of Genetics - Robert C. King 1990

Modern genetics began in 1900 with the rediscovery of Mendel's paper, and now the sequencing of the human genome has brought the first century of progress in this field to a triumphant conclusion. Genetics has entered a new era with the advent of genomic and proteomic approaches, and the knowledge in no other biological discipline is advancing as rapidly as that in molecular genetics and cell biology. Proliferation of new terms inevitably accompanies such exponential growth. The sixth edition of A Dictionary of Genetics addresses the need of students and professionals to have access to an up-to-date reference source that defines not only the most recently coined terms, but in many cases also presents important ancillary encyclopedic information. A Dictionary

of Genetics has a broader coverage than its name implies, since it includes definitions of strictly genetic words along with a variety of non-genetic terms often encountered in the literature of genetics. There are about 7,000 definitions, and tables or drawings that illustrate 395 of these. In addition to the main body of the dictionary, this work features new Appendices covering the genomic sizes and gene numbers of about 30 organisms ranging from the smallest known virus to humans, an up-to-date listing of internet addresses for easy access to genetic databanks, and a list of developments, inventions and advances in genetics, cytology, and evolutionary science from the past 400 years. These 900 entries, covering a period from 1590 to 2001, are also cross-referenced in the definitions that occur in the body of the dictionary. No other genetics dictionary supplies definitions cross-referenced to chronology entries or has species entries cross-referenced to an appendix showing the position of each

organism in a taxonomic hierarchy. These features make *A Dictionary of Genetics* the most important lexicon in this field.

Dictionary of Biochemistry and Molecular Biology - J. Stenesh 1989-10-20

In response to the expansion of knowledge in biochemistry and molecular biology, the Second Edition of this reference has been completely revised and updated, with approximately 16,000 new entries. Names of specific compounds and other substances have been substantially enlarged, and definitions have been expanded for clarity and precision. Information is drawn from over 500 books and 1,000 articles, including recommendations of the Commission on Biochemical Nomenclature, the International Union of Pure and Applied Chemistry, and the International Union of Biochemistry. Terms used

by biochemists from a broad range of sciences, such as chemistry, immunology, genetics, virology, biophysics, and microbiology, are included. Abbreviations, both standard and nonstandard, are also provided, as well as cross-referenced synonymous expressions.

Guide to Sources for Agricultural and Biological Research - J. Richard Blanchard 2021-01-08

This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1981.