

Culture Dishes, Tubes and Accessories

Accessories

T 4412 Style #5, needle-sharp, non-magnetic alloy (tips may be restraightened when bent) 1 each
Size. 110 mm



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Books

Plant Biology

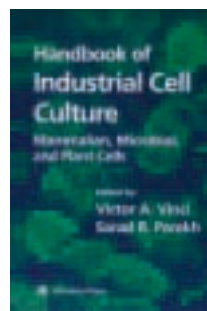
Arabidopsis: A Laboratory Manual

A 6725 ISBN: 0-87969-573-0 1 each
The thale cress *Arabidopsis thaliana* is increasingly popular among plant scientists. It is small, easy to grow, makes flowers, and the sequence of its small and simple genome was recently completed. This is the most complete and authoritative laboratory manual to be published on this model organism and the first to deal with genomic and proteomic approaches to its biology.
D. Weigel and J. Glazebrook, Cold Spring Harbor Laboratory Press, 2002, 366 pp., Comb bound



Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells

Z70,050-9 ISBN: 1-58829-032-8 1 each
The authors describe, in simple language, the major current and evolving technologies for improving the biocatalytic capabilities of mammalian, microbial, and plant cells. The authors present state-of-the-art techniques, proven methods, and strategies for industrial screening, cultivation, and scale-up of these cells, and describe their biotech and industrial uses. Special emphasis is given to the solving critical issues encountered during the discovery of new drugs, process development, and the manufacture of new and existing compounds. Other topics include recombinant protein expression, bioinformatics, high throughput screening, analytical tools in biotechnology, DNA shuffling, and genomics discovery.
V. Vinci and S. Parekh, Humana Press, 2003, 546 pp., Hard cover



Medicinal Plants of the World, Volume 1: Chemical Constituents, Traditional and Modern Medicinal Uses, 2nd ed.

Z70,087-8 ISBN: 1-58829-281-9 1 each
Ivan Ross takes advantage of the significant growth in the amount of new data available to update and expand his much acclaimed first edition. This second edition exhaustively compiles new clinical research and references twenty-six of the most widely used medicinal plants in the world, including *Allium sativum*, *Mangifera indica*, *Punica granatum*, *Momordica charantia*, *Mucuna pruriens*, *Arbus precatorius*, *Moringa pterygosperma*, *Phyllanthus niruri*, and *Jatropa curcas*. Each chapter on a particular plant species contains the following categories: Common Names, Botanical Description, Origin and Distribution, Traditional Medicinal Uses, Chemical Constituents, and Pharmacological Activities and Clinical Trials.
I. Ross, Humana Press, 2003, 478 pp., Hard cover

Books

Plant Biology

Molecular Plant Biology, Volume one

- M 6941** ISBN: 0-19-963875-6 1 each
Advances in plant science are reflected by the need to produce two volumes to cover all the relevant methodologies since the original book *Plant Molecular Biology*. The approaches outlined in volume 1 cover a wide range of techniques for gene isolation, gene identification and subsequent gene isolation. The methods described range from classical mutagenesis through plant transformation, T-DNA and transposon tagging strategies, genomic subtraction, gene mapping, construction and screening of YAC, BAC and cosmid libraries chromosome in situ, and isolation of cDNA sequences by western and southwestern library screens, and complementation cloning.
P.M. Gilmartin and C. Bowler, Oxford University Press, 2002, 320 pp., Soft cover



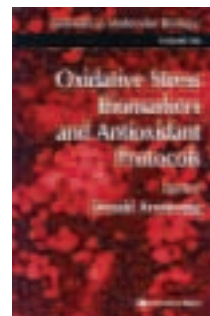
Molecular Plant Biology, Volume Two

- M 7066** ISBN: 0-19-963818-7 1 each
Studying plant biology at the molecular level requires different techniques from those used in the study of animals and bacteria because of the different structure of plant cells and the different mechanisms they employ. The current interest in crop research and the genetic modification of food plants means it is an expanding discipline, and the editors have assembled distinguished contributors to give it comprehensive coverage. Volume 2 is focused on gene expression and gene product analysis.
P.M. Gilmartin and C. Bowler, Oxford University Press, 2002, 368 pp., Soft cover



Oxidative Stress Biomarkers and Antioxidant Protocols

- O 1264** ISBN: 0-89603-850-5 1 each
This is a collection of new and valuable methods for evaluating the perturbations in cell function resulting from increased oxidative stress. These reproducible techniques cover both free radical-derived and antioxidant biomarkers. The methodologies demonstrated include ELISA, HPLC, infrared spectroscopy, GC-MS, immunoblotting, electroelution fractionation, isoelectric focusing, voltametry, and electron paramagnetic resonance imaging. Special emphasis is given to the separation of complex mixtures of plant antioxidants, soft drug design to protect from toxic oxidative metabolites, in vitro oxidation conditions, and correcting for random measurement error to improve statistical interpretation.
D. Armstrong, Humana Press, 2002, 336 pp., Hard cover



Pesticide Manual, 12th ed.

- P 5236** ISBN: 1-901396-11-8 1 each
This world compendium is an essential reference book for anyone with a professional interest in pesticides. The Pesticide Manual contains 759 detailed main entries, as well as abbreviated details covering 583 superseded products. Entries cover herbicides, fungicides, insecticides, acaricides, nematocides, plant growth regulators, herbicide safeners, repellents, pheromones, biological control agents, rodenticides and animal ectoparasitocides.
BCPC Publications, 2000, 1606 pp., Hard cover

Books

Plant Biology

Plant Cell Biology: A Practical Approach 2nd ed.

- P 0366** ISBN: 0-19-963865-9 1 each
With the post genomics era, comes an increasing demand for techniques of cell biology, critical to interpreting the function and location of the cell's many proteins and macromolecules. This edition balances established techniques, including classical histochemistry and electron microscopy, with new developments. It covers a substantial range of methods for working on living cells, including the application of fluorescent probes, cytometry, expression systems, the use of green fluorescent protein, micromanipulation and electrophysiological techniques. It concludes with a range of biochemical techniques for the isolation of cytoplasmic organelles.
C. Hawes and B. Siaty-Jeunemaitre, Oxford University Press, 2001, Soft cover



Plant Cell Culture Protocols

- P 2606** ISBN: 0-89603-549-2 1 each
Readily reproducible and extensively annotated, methods covered include culture initiation, maintenance, manipulation, application, and long-term storage, with emphasis on techniques for genetic modification and micropropagation. Many of these protocols are currently used in major projects designed to produce improved varieties of important crop plants.
R.D. Hall, Humana Press, Totowa, NJ, 1999, 440 pp.



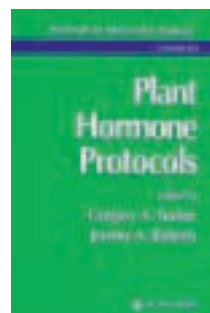
Plant Growth and Development: Hormones and Environment

- P 2744** ISBN: 012660570X 1 each
This book provides current information on synthesis of plant hormones, how their concentrations are regulated, and how they modulate various plant processes. It details how plants sense and tolerate such factors as drought, salinity, and cold temperature, factors that limit plant productivity on earth. It also explains how plants sense two other environmental signals, light and gravity, and modify their developmental patterns in response to those signals. This book takes the reader from basic concepts to the most up-to-date thinking. Features include clear synthesis and review of hormonal and environmental regulation of plant growth and development and more than 600 illustrations.
L.M. Srivastava, Academic Press, 2002, 786 pp., Hard cover



Plant Hormone Protocols

- P 4734** ISBN: 0-89603-577-8 1 each
Established investigators from around the world describe in step-by-step detail their best techniques for the study of plant hormones and their regulatory activities. These state-of-the-art methods include contemporary approaches to identifying the biosynthetic pathways of plant hormones, monitoring their levels, characterizing the receptors with which they interact, and analyzing the signaling systems by which they exert their effects.
G.A. Tucker, Humana Press, 2000, 216 pp., Hard cover



Books

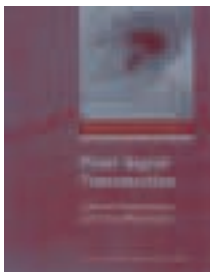
Plant Biology

Plant Pathologist's Pocketbook, 3rd ed.

- Z70,085-1** ISBN: 0-85199-459-8 1 each
This essential handbook for student and practicing plant pathologists has been thoroughly reorganized and updated. The new edition includes: rearrangement of topics to facilitate use; 49 short succinct chapters, each providing valuable practical information; new topics such as landmarks in plant pathology, survey of sampling procedures, disease evaluation, effects of climate change, biochemical and molecular techniques, epidemic modelling, breeding for resistance, laboratory safety and electronic databases; seven overall sections covering disease recognition and evaluation, causation, diagnosis, investigation, control, general techniques, and presentation of results.
J. Waller, CABI Publishing, 2002, 516 pp., Soft cover

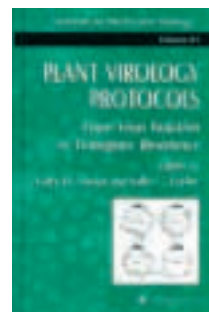
Plant Signal Transduction

- P 2119** ISBN: 0-19-963879-9 1 each
This book represents a summary of the enormous amount of available information on signal transduction processes involved in the communication of plants with abiotic and biotic elements of their environment. Perception and overall response are linked by signal transduction pathways at cellular, systemic and interorganismic levels. In order to guarantee proper adaptation to the environment, signals generated following perception of a multitude of environmental factors need to be integrated and evaluated according to their importance. Cross-talk between different signaling pathways within such networks appears to be the basis for the evaluation of the importance of incoming signals. Knowledge of these complex processes allows a better understanding of the molecular mechanisms underlying adaptation. Modulation of distinct signaling elements can generate plants with improved stress resistance.
D. Scheel and C. Wasternack, Oxford University Press, 2002, 352 pp., Soft cover



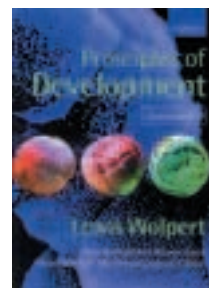
Plant Virology Protocols: From Virus Isolation to Transgenic Resistance Methods in Molecular Biology, Vol. 81

- Z37,964-6** ISBN: 0-89603-385-6 1 each
Comprehensive coverage of time-proven methods for constructing transgenic virus-resistant plants. By introducing expressible genes for virus coat proteins, plant scientists can with near certainty generate immunity to viral infection. This volume covers the methods, step by step, from virus isolation through cloning coat protein genes, transforming the plant genome, and testing for expression and resistance. contributors also discuss the history and ethical implications of transgenic technology.
G.D. Foster and S.C. Taylor, Humana Press, Totowa, NJ, 1998, 588 pp., Hard cover



Principles of Development, 2nd ed.

- P 7242** ISBN: 0-19-924939-3 1 each
The authors' approach in this revised edition is the idea that understanding how genes control cell behavior is the key to understanding development. Resisting the temptation to cover every aspect of developmental biology, the authors have instead focused on those systems that best illuminate common principles. The theme of their book is that universal principles govern the process of development. The text also focuses on vertebrates and Drosophila, but without excluding other systems, such as the nematode and the sea urchin. Another important feature of the book is the inclusion of the development of plants—usually neglected in other textbooks—which has unique and important features.
L. Wolpert, R. Beddington, T. Jessell, P. Lawrence, E. Meyerowitz and J. Smith, Oxford University Press, 2002, 542 pp., Hard cover

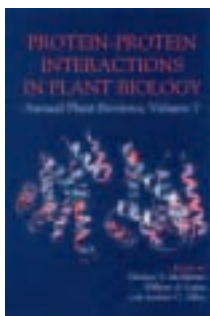


Books

Plant Biology

Protein-Protein Interactions in Plant Biology

P 2369 ISBN: 0849397901 1 each
The importance of protein-protein interactions in biological systems is a rapidly emerging research theme and the revolution that is taking place in our understanding of plant genomics is enabling us to make exciting discoveries that have implications for both the fundamental and applied plant sciences. This book provides an overview of the current understanding of the significance of protein-protein interactions in plant biology. Each chapter considers the biochemical mechanism of the protein-protein interaction and its functional significance, and draws comparisons with similar interactions in animal cells. M.T. McManus, W. Laing and A. Allan, CRC Press, 2002, 325 pp., Hard cover



Recombinant Proteins from Plants: Methods in Biotechnology, Vol. 3

Z37,998-0 ISBN: 0-89603-390-2 1 each
A comprehensive and detailed handbook of essential techniques for producing recombinant proteins in plant hosts. Focuses on large-scale, cost-effective production, but includes sufficient detail to permit methods development in single-cell expression systems. The authoritative panel of contributors also discuss techniques they believe will become more important in the future: efficient transformation with *Agrobacterium*, optimizing stability of plant-expressed proteins, and the immunotherapeutic potential of such proteins. C. Cunningham and A.J.R. Porter, Humana Press, Totowa, NJ, 1997, 308 pp., Hard cover



Transgenic Plants: Current Innovations and Future Trends

Z70,073-8 ISBN: 1-898486-44-1 1 each
Recent major advances in transgenic plant technologies have generated a plethora of potential applications in agriculture and other areas (food safety, vaccine delivery etc). The authors review the current state-of-the-art technologies as well as many of the potential applications. The book contains chapters on diverse topics, ranging from tree somatic embryogenesis, and chloroplast transformation, to *in planta* transformation. One feature of the book is its focus on the future of transgenic plants. Site-specific recombination systems will certainly be part of that future as well as exciting applications such as edible vaccines and functional genomics. C.N. Stewart, Horizon Scientific, 2003, 297 pp., Hard cover

