

Plant Genomics and Proteomics



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The greatly expanded second edition of *Plant Genomics and Proteomics* offers a concise, highly readable, and integrative account of the complex relationships between the genome, proteome, and transcriptome of plants. Chapters focus on concrete, readily applicable topics, and include functional and structural genomics addressed within the context of current techniques in plant biology, and how to use DNA and protein sequence data. Numerous examples from the latest research and applications highlight the vast amount of data that have amassed for plant genetic

sequence, array, and proteomics, and these are enhanced by a review of applications for biotechnology, including genetic modification and defense against pathogens. The book's powerful focus on plant biology allows particular attention to issues such as polyploidy, not relevant to the study of other organisms, as well as an emphasis on problems specific to plants such as symbiosis, stress, and disease responses.* Greatly expanded new edition, now a third longer with significant new coverage* Coverage of the latest research topics, including the maize genome project* Frequent and prominent plant genetics and genomics examples throughout the text, completely updated for the new edition* Concise presentation with specific examples to illustrate topics for greatest accessibility* Includes discussions of the very latest research and understanding Plant Genomics and Proteomics, Second Edition is an invaluable reference work for students in plant molecular biology, agricultural and food sciences, plant, food, and crop bioengineering. It is also of interest for plant molecular biology laboratories, especially in the developing countries, and international institutes that include training programs. Praise for the first edition: "...this valuable book with its introductory descriptions of new developments in plant genomics can be recommended to scientists, lecturers, and person who are not very familiar with plant genomics..." JOURNAL OF PLANT PHYSIOLOGY "...the author does an admirable job of summarizing a large and growing field." YALE JOURNAL OF BIOLOGY AND MEDICINE

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