

LINSKENS, H. F., JACKSON, J. F. (ed.): **CELL COMPONENTS. Modern Methods of Plant Analysis.** New Series, Volume 1. — Springer-Verlag, Berlin—Heidelberg—New York—Tokyo 1985. 399 pp. 96 figs. Hard cover DM 238.—.

Since the appearance in 1964 of the 7th and last volume of the highly popular series of *Modern Methods of Plant Analysis* edited by M. V. Tracey and K. Peach, the biochemical, biophysical and cytological methods have registered a tremendous progress and many new sophisticated approaches have been developed. Most of the books on modern techniques in biology being concerned with microbial or animal material, it is to welcome very much the decision of the publisher to meet the great need of a collection of up-to-date methods of plant analysis by resuming the edition of the handbook. The New Series appears under the editorship of H. F. Linskens, Nijmegen and J. F. Jackson, Adelaide, and its first volume is devoted to isolation and analysis of plant cell components.

The book is organized into 18 independent chapters written by different specialists and provides a detailed theoretical and practical description and critical evaluation of a number of biochemical, biophysical, histochemical and cytological methods of cell analysis: Isolation of cell walls, determination of cell wall components and properties, isolation and fractionation of protoplasts, use and separation of markers in subcellular fractionation, plasma membrane isolation and analysis, isolation and study of vacuoles and vacuolar tonoplasts from various sources, isolation, subfractionation and analysis of protein and lipid bodies occurring in the storage tissues of seeds, techniques to isolate and purify chloroplasts, inner and outer chloroplast envelope membranes, of chloroplast thylakoid membrane and of subthylakoid fractions, purification and assay of ribulosebisphosphate carboxylase from chloroplast stroma, isolation and characterization of nongreen plastids, of endoplasmic reticulum and of polyribosomes, preparation of mitochondria for DNA analysis and oxidative studies, isolation and cytological staining of nuclei, and, finally, techniques for extraction and analysis of microtubule proteins. The description of the methods is generally based on theoretical considerations on properties and functions of the particular cell fractions and on principles of the presented analytical procedures. All chapters have an extensive bibliography and the text is accompanied by effective illustrations.

This first volume of the New Series of *Modern Methods of Plant Analysis* will certainly establish itself as a basic laboratory handbook of great help in achieving a high up-to-date methodical level of research in plant sciences.

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ANNOUNCEMENT

Groupe POLYPHENOLS Group

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The International Polyphenols Group is holding its next biennial conference in the Niagara Falls area of Canada on August 16–19, 1988. Topics of the symposium will be: Biodegradation and utilization of lignin; Significance of flavonoids in foods; Cereal polyphenols; Phenolics in phytopathology and Production of phenolics in cultured tissues. Contributed papers and posters on these and other polyphenol related topics are invited. For further information contact: Dr. T. Fuleki, HRIO, Vineland Station, Ontario, Canada, LOR 2E0.