
Preface

The rapid advances in sciences such as biotechnology and genetic engineering, atleast within the context of plants, has been given immense incentive with the progress in cell biology, which undertakes a comprehensive study of cell structure, functioning and pathology. With the development of such instruments as the electron microscope and the scanning electron microscope, the scope of plant cell biology has been greatly widened to understand and incorporate knowledge within fields like biochemistry and cytogenetics. As such the relevance of this field cannot be overemphasised, especially as it offers immense prospects in medicine, agriculture and so on.

The present text has been aimed as an introductory manual on the subject of plant cell biology, seeking to acquaint botany students with the fundamental principles and applications of the field. Delineating the concepts, techniques and processes associated with plant cell biology, the text attempts to highlight the role of plant cell biology in shaping biochemistry and biotechnology. Emphasising upon the ways in which cell biology has expanded the range of botanical studies, the text analyses current trends and developments, and offers insight into the future of the field.

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