

PLANT CELLS AND THEIR ORGANELLES

Understanding the structure and function of plant organelles, and how they differ from those in animal cells, is an important aspect of plant cell biology, biotechnology and biochemistry and evolution. The cell wall is increasingly being recognized as an important component in biofuel research as plants form the basis of primary biofuels (woodchip, elephant grass) and secondary biofuels (ethanol, biodiesel).

Plant Cells and their Organelles provides a comprehensive overview of the structure and function of plant organelles. The text focuses on subcellular organelles while also providing relevant background on plant cells, tissues and organs. Coverage of the latest methods of light and electron microscopy and modern biochemical procedures for the isolation and identification of organelles help to provide a thorough and up-to-date companion text to the field of plant cell and subcellular biology.

This book is designed as an advanced text for upper-level undergraduate and graduate students with student-friendly diagrams and clear explanations.

About the Editors

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Dr. Dashek is the recipient of BS, MS and PhD degree from Marquette University where he was a National Institute of Health pre-doctoral trainee. He was a post-doctorate fellow at the Michigan State University Plant Research Laboratory. Subsequently, he began a lengthy academic teaching and research career. Currently, Dashek is retired, writing advanced textbooks.

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Dr. Miglani obtained his BSc (Agri. & A.H.) and MSc (Genetics) from Punjab Agricultural University (PAU), Ludhiana, Punjab, India, and PhD from Howard University, Washington, D.C. During his 35-year teaching stint at PAU, he taught general and specialized courses in genetics. Even after retirement, Miglani is still teaching molecular genetics and biotechnology at PAU. In addition to research and review papers, popular science articles and laboratory manuals, he has published a dozen books. Presently, he is writing his next book.

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