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Biochemistry and Molecular Biology of Plants, 2nd Edition has been hailed as a major contribution to the plant sciences literature and critical acclaim has been matched by global sales success. Maintaining the scope and focus of the first edition, the second will provide a major update, include much new material and reorganise some chapters to further improve the presentation.

This book is meticulously organised and richly illustrated, having over 1,000 full-colour illustrations and 500 photographs. It is divided into five parts covering: Compartments, Cell Reproduction, Energy Flow, Metabolic and Developmental Integration, and Plant Environment and Agriculture. Specific changes to this edition include:

- Completely revised with over half of the chapters having a major rewrite.
- Includes two new chapters on signal transduction and responses to pathogens.
- Restructuring of section on cell reproduction for improved presentation.
- Dedicated website to include all illustrative material.

Biochemistry and Molecular Biology of Plants holds a unique place in the plant sciences literature as it provides the only comprehensive, authoritative, integrated single volume book in this essential field of study.

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Editorial Review

Review

“Biochemistry and Molecular Biology of Plants, 2nd edition is a beast, but it’s a user-friendly one that should be welcomed into one’s life to provide much-appreciated companionship to further one’s plant biology studies.” (*AoB Blog*, 1 November 2015)

From the Back Cover

Since its publication in 2000, *Biochemistry & Molecular Biology of Plants* has been hailed as a major contribution to the plant sciences literature, and critical acclaim was matched by global sales success. Maintaining the scope and focus of the first edition, the second edition is completely revised and extensively rewritten, including much new material and chapters that are re-organized for improved presentation.

This book is meticulously organized and richly illustrated, containing over 1,000 full-color illustrations and 500 photographs. It is divided into five parts covering: Compartments; Cell Reproduction; Energy Flow; Metabolic and Developmental Integration; and Plant Environment and Agriculture. A companion website includes PowerPoint slides of all the figures from the book, plus PDF files of all the tables from the book, for the user to download.

Check it out here: www.wiley.com/go/buchanan/biochem

Biochemistry & Molecular Biology of Plants holds a unique place in the plant science literature, as it provides the only comprehensive, authoritative, integrated single-volume book in this essential field of study.

PUBLISHED REVIEWS OF THE FIRST EDITION:

...[it] is a truly unique text that redefines the standard in this discipline....an informative and beautiful work that will be engaging for students and indispensable for instructors and researchers...All plant biologists will want a copy of this book on their shelves.”

Biochemistry and Molecular Biology Education

The great strength of this book is that it has integrated [the] three major components [of the subject] in each of the 24 chapters, resulting in a comprehensive analysis of a multitude of specific topics...Whether you use it as a text or as a reference book, *Biochemistry & Molecular Biology of Plants* has set the standard for years to come.”

Cell

The Second Edition of *Biochemistry & Molecular Biology of Plants* is a co-publication between the American Society of Plant Biologists and Wiley Blackwell.

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About the Author

EDITED BY

Bob B. Buchanan, *University of California, Berkeley, USA*

Wilhelm Gruissem, *ETH Zurich, Switzerland*

Russell L. Jones, *University of California, Berkeley, USA*

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