



# The Molecular Life of Plants

By Russell L. Jones, Helen Ougham, Howard Thomas, Susan Waaland

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**The Molecular Life of Plants** By Russell L. Jones, Helen Ougham, Howard Thomas, Susan Waaland

A stunning landmark co-publication between the **American Society of Plant Biologists** and Wiley-Blackwell.

*The Molecular Life of Plants* presents students with an innovative, integrated approach to plant science. It looks at the processes and mechanisms that underlie each stage of plant life and describes the intricate network of cellular, molecular, biochemical and physiological events through which plants make life on land possible. Richly illustrated, this book follows the life of the plant, starting with the seed, progressing through germination to the seedling and mature plant, and ending with reproduction and senescence. This "seed-to-seed" approach will provide students with a logical framework for acquiring the knowledge needed to fully understand plant growth and development.

Written by a highly respected and experienced author team *The Molecular Life of Plants* will prove invaluable to students needing a comprehensive, integrated introduction to the subject across a variety of disciplines including plant science, biological science, horticulture and agriculture.

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**Bibliography**

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## **Editorial Review**

### Review

"This volume is a wonderful accomplishment and should be on every (plant) biologist's desk—it has rekindled my enthusiasm for studying plants and their molecular processes." (*The Quarterly Review of Biology*, 1 June 2014)

### From the Back Cover

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- Innovative, modern treatment integrating physiology and biochemistry with genetics and cell and molecular biology.
- Takes a "seed-to-seed" approach.
- Beautifully presented with over 700 full colour illustrations.
- "Key points" boxes in each chapter summarize topics and help facilitate student learning.

Written by a highly respected and experienced author team *The Molecular Life of Plants* will prove invaluable to students needing a comprehensive, integrated introduction to the subject across a variety of disciplines including plant science, biological science, horticulture and agriculture.

*The Molecular Life of Plants* is a co-publication between the American Society of Plant Biologists and John Wiley & Sons Ltd.

### About the Author

**Russell Jones** was born in Wales and completed his B.Sc. and Ph.D. degrees at the University of Wales, Aberystwyth. He spent one year as a postdoctoral fellow at the Michigan State University before being appointed to the faculty of the Department of Botany at the University of California at Berkeley in 1966. He is now a Professor of the Graduate School at UC–Berkeley.

**Helen Ougham** has a B.A. in Natural Sciences from the University of Cambridge and a Ph.D. in Biochemistry from the University of Wales, Aberystwyth. She has carried out research in plant science for over 25 years at the Institute of Grassland and Environmental Research and Aberystwyth University, and she teaches regularly on graduate courses in genetics and genomics at the University of Birmingham and in crop science at the International Centre for Advanced Mediterranean Agronomic Studies, Zaragoza.

**Howard Thomas** studied at Aberystwyth University and is a DSc in the University of Wales. He was head of cell and molecular biology research and member of the management board at the Institute of Grassland

and Environmental Research. He has held visiting professorships at the Universities of California, Bern and Zurich and is currently Emeritus Professor of Biology at Aberystwyth University.

**Susan Waaland** earned a B.A. in Biology at Earlham College in Indiana and a Ph.D. in Botany at the University of California at Berkeley. She was an NIH postdoctoral fellow at the University of Washington and continued there as a faculty member in Botany and Biology. She spent a year in the Botany Department at the University of California at Davis through the NSF Visiting Professorships for Women Program. She is now an Emeritus Lecturer in Biology at the University of Washington.

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