

Annual Plant Reviews, Volume 44

The Plant Hormone Ethylene

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Edited by Michael T. McManus

The plant hormone ethylene is one of the earliest chemicals to be determined as a naturally-occurring growth regulator that has a major influence on many aspects of plant development. It was also the first hormone for which significant evidence was found for the presence of receptors.

This latest volume in Wiley-Blackwell's prestigious Annual Plant Reviews series provides detailed commentary on this extremely important plant hormone, dealing with the many established and novel aspects pertaining to ethylene biology. Divided into three parts, the first covers the biosynthesis of ethylene and includes chapters on S-adenosylmethionine production and the formation and fate of ACC in plant cells. The second part of the volume covers ethylene signalling, including the perception of ethylene by plant cells and how this is transduced into regulating events in the nucleus. The closing chapters address the control by ethylene of cell function and development, including seed development and germination, plant growth, cell separation, fruit ripening, senescent processes, and plant-pathogen interactions.

Written by many of the world's leading researchers in ethylene, and edited by Professor Michael T. McManus of Massey University, this volume will be of great use and interest to a wide range of plant scientists, biochemists and chemists at both post-graduate and career scientist level. An essential purchase for universities and research establishments where plant sciences, biochemistry, chemistry, horticulture and agriculture are studied and taught.

About the Editor

Michael T. McManus is Professor at the Institute of Molecular Biosciences at Massey University, New Zealand. He is also an Editorial Board Member of Annual Plant Reviews.

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