

CONTROL OF PRIMARY METABOLISM IN PLANTS

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*Edited by William C. Plaxton
and Michael T. McManus*

The ability to control the rates of metabolic processes in response to changes in the internal or external environment is an indispensable attribute of living cells that must have arisen with life's origin. This adaptability is necessary for conserving the stability of the intracellular environment which is, in turn, essential for maintaining an efficient functional state. The advent of genomics, proteomics, and metabolomics has revolutionised the study of plant development and is now having a significant impact on the study of plant metabolism and its control. In the last few years, significant advances have been made, with the elucidation of enzyme gene families and the identification of new proteinaceous and allosteric regulators.

The first part of this volume is devoted to generic aspects of metabolic control, with chapters on the key control points in pathways. Part two considers the control of specific pathways, with detailed descriptions (including structures) and discussions of the regulation of these pathways, particularly in terms of the enzymology. The book is directed at researchers and professionals in plant biochemistry, physiology, molecular biology and cell biology.

The Editors

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