

REGULATION OF TRANSCRIPTION IN PLANTS

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Regulation of transcription represents a major, controlling step in plant gene expression, as it determines the tissue-specific and developmental stage-specific activity of many genes. Changes in gene expression have been shown to underlie the responses to environmental cues and stresses, the response against pathogens, the regulation of metabolic pathways, and the regulation of photosynthesis, for example. Regulation by transcription factors is an integral part of a highly complex network. In recent years, research on the regulation of transcription has made impressive progress.

This volume provides a broad overview of the regulation of transcription in plants, introducing the key elements, the way in which it works in practice, and the potential within plant biotechnology. It is directed at researchers and professionals in plant molecular biology, biochemistry and biotechnology.

The Editor

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Front cover photographs courtesy of Dr Zsuzsanna Schwarz-Sommer, Max-Planck-Institut für Züchtungsforschung, Köln, Germany. The images depict phenotypes of *Antirrhinum majus* wild type and floral organ identity mutants. Various MADS-box transcription factor mutants display homeotic organ transformations (see Chapter 10 for details).



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