



Biotechnology of Plant Secondary Metabolism: Methods and Protocols (Methods in Molecular Biology)

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This volume describes up-to-date techniques for improved production of secondary metabolites of economic interest using field and laboratory methods. *Biotechnology of Plant Secondary Metabolism: Methods and Protocols* explores different secondary metabolite classes, whole-plant and cell/organ culture systems, and environmental and genetic transformation-based modulation of biochemical pathways. Special focus is given to cell and tissue specific metabolism, metabolite transport, microRNA-based technology, heterologous systems expression of enzymes and pathways leading to products of interest, as well as applications using both model and non-model plant species. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Practical and cutting-edge, *Biotechnology of Plant Secondary Metabolism: Methods and Protocols* is a great resource for scientists of interdisciplinary fields--plant science, plant physiology, pharmacy, molecular biology, biochemistry, bioengineering, and forestry--in reaching their goals of producing plant biochemicals in a sustainable and efficient manner, while minimizing impacts to the environment and providing the required quantities of these commodities to industry.



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