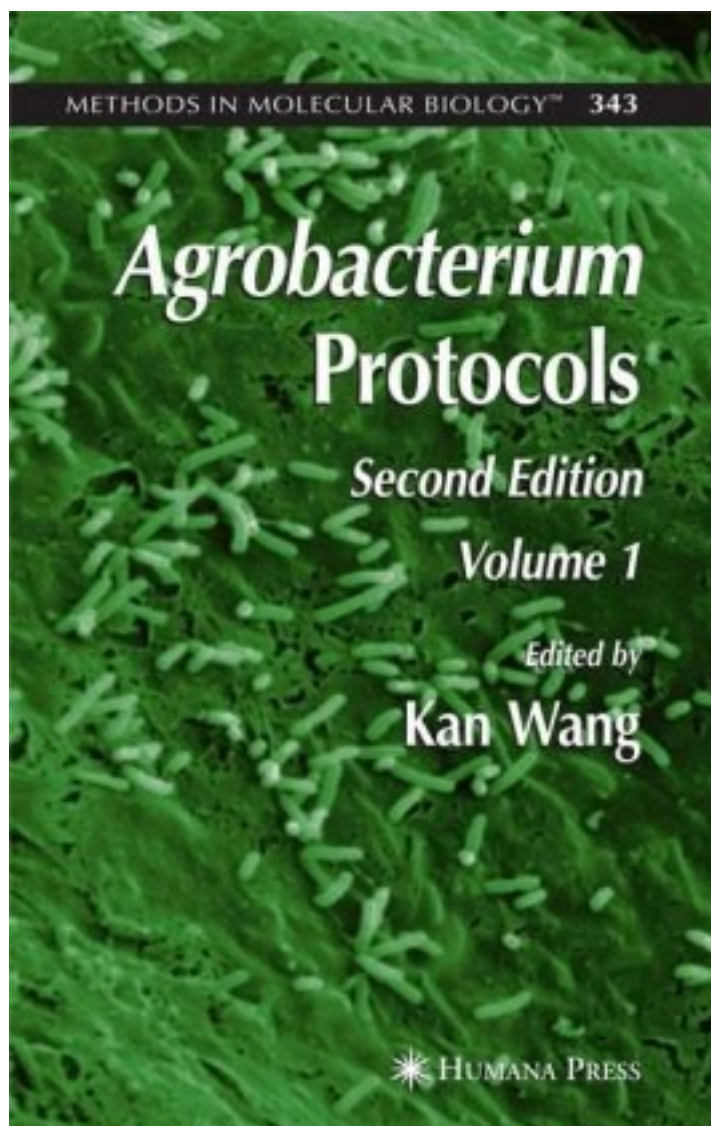


# Agrobacterium Protocols



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A gold standard collection of *Agrobacterium*-mediated transformation techniques for state-of-the-art plant genetic engineering, functional genomic analysis, and crop improvement. Volume 1 details the most updated techniques available for twenty-six plant species drawn from cereal crops, industrial plants, legume plants, and vegetable plants, and presents various methods for introducing DNA into three major model plant species, *Arabidopsis thaliana*, *Medicago truncatula*, and *Nicotiana*. The authors also outline the basic methods in *Agrobacterium* manipulation and strategies for vector construction. Volume 2 contains another thirty-three proven techniques for root plants, turf grasses, woody species, tropic plants, nuts and fruits, ornamental plants, and medicinal plants. Additional chapters provide methods for introducing DNA into non-plant species, such as bacteria, fungi, algae, and mammalian cells. The protocols follow the successful *Methods in Molecular Biology* series format, each offering step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls.

作者介绍:

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