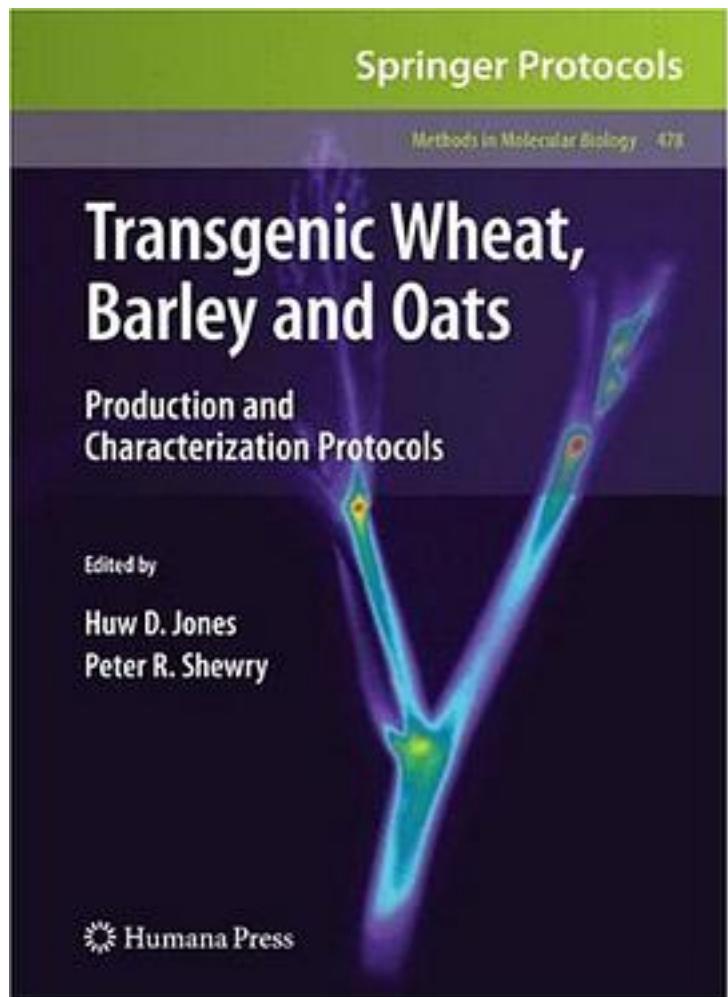


# Transgenic Wheat, Barley and Oats



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著者:Shewry, Peter (EDT)

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The understanding of the physical and genetic structure of plant genomes and the determination of phenotypes via interactions of coding and non-coding regions with

the environment has quickly become the key to the future of plant breeding and agriculture. In *Transgenic Wheat, Barley and Oats: Production and Characterization Protocols*, expert investigators contribute the latest protocols for the transformation, regeneration and selection of these three species, using both biolistics and *Agrobacterium tumefaciens*, in order to fill the need for techniques and resources in this vital area of research. Covering such topics as *in vitro* *Agrobacterium* co-cultivation, the manipulation of gene expression, and GM risk assessment, this versatile collection focuses on the study of temperate small grain cereals while many of its readily reproducible procedures could be easily adapted to accommodate other cereals and plants. The in-depth chapters adhere to the highly successful Methods in Molecular Biology(t) series format, featuring brief introductions to the subject, lists of the necessary materials and reagents, step-by-step laboratory protocols and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, *Transgenic Wheat, Barley and Oats: Production and Characterization Protocols* is an ideal guide for scientists pursuing this powerful, forward-thinking genetic strategy.

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