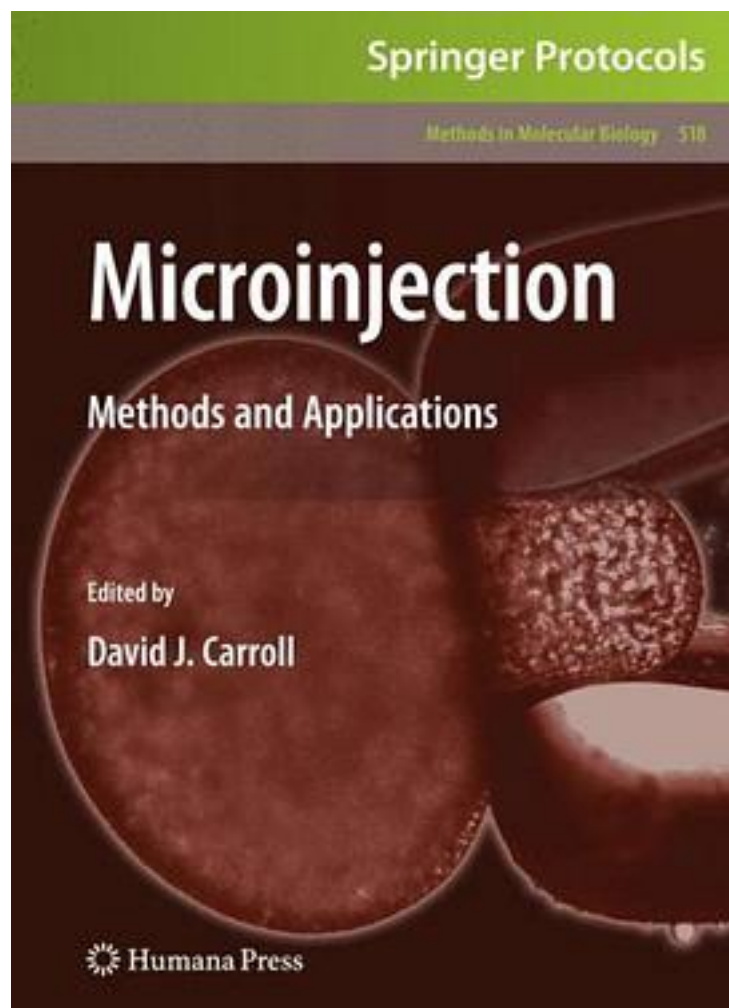


Microinjection



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As the number of sequenced genomes continues to increase, understanding the

functions of newly discovered molecules will require greater efficiency and further study within the context of live cells. In *Microinjection: Methods and Applications*, expert researchers contribute methods utilizing microinjection techniques ranging from expression of RNA to the integration of DNA into the genome with the ultimate goal of learning about gene expression, signal transduction, and protein function within these living cells. This versatile volume updates established techniques such as cRNA expression in *Xenopus* oocytes, and examines new, cutting-edge technologies, including antisense morpholino oligonucleotides, RNAi for knockdown experiments, and the use of integrase to produce transgenic animals, all through microinjection techniques that can be easily adopted by any lab. Written in the highly successful *Methods in Molecular Biology*(t) series format, chapters include brief introductions to the topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and Notes sections, highlighting tips on troubleshooting and avoiding known pitfalls. Comprehensive and easily accessible, *Microinjection: Methods and Applications* is an ideal source for new ideas and techniques certain to aid in the advance of biological research.

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