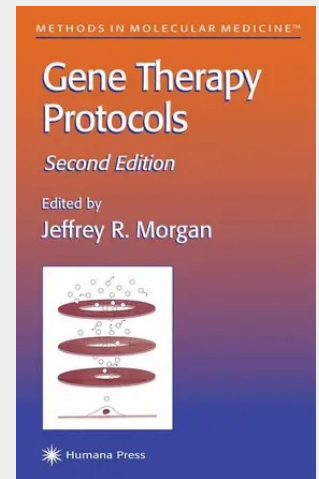


Gene Therapy Protocols

In this fully updated and revised 2nd edition of Gene Therapy Protocols, leading experts from academic and industrial laboratories around the world detail their most effective viral and nonviral methods of gene transfer, as well as discuss their applications in different organ systems. These methods range from those in which new molecular conjugates show great promise for targeting gene transfer and regulating transgene expression, to those used in such exciting applications as the delivery of therapeutic proteins, vaccination, and tissue engineering. Up-to-date and highly practical, Gene Therapy Protocols, 2nd Edition, offers a rich compilation of the revolutionary advances that have recently occurred in gene transfer technology, with each article providing proven the step-by-step laboratory procedures that enable its successful therapeutic application.

Significant advances in gene transfer technology and the completion of sequencing the human genome offer much renewed hope that gene therapy will provide novel approaches to the treatment of inherited and acquired diseases. In this fully updated and revised 2nd edition of the warmly received Gene Therapy Protocols, leading experts from academic and industrial laboratories around the world detail their most effective viral and nonviral methods of gene transfer, as well as discuss their applications in different organ systems. The methods range from those in which new molecular conjugates show great promise for targeting gene transfer and regulating transgene expression, to those used in such exciting applications as the delivery of therapeutic proteins, vaccination, and tissue engineering. In addition, there are completely revised methods based on retroviruses and adenoviruses, as well as new and promising methods based on lentiviruses and adeno-associated viruses. The quantitative aspects of gene therapy are strongly emphasized, and the book reflects the many significant recent improvements in gene transfer efficiency, gene regulation, and vector production. Up-to-date and highly practical, Gene Therapy Protocols, 2nd Edition, offers a rich compilation of the revolutionary advances that have recently occurred in gene transfer technology, with each article providing proven step-by-step laboratory procedures that enable successful therapeutic application.



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