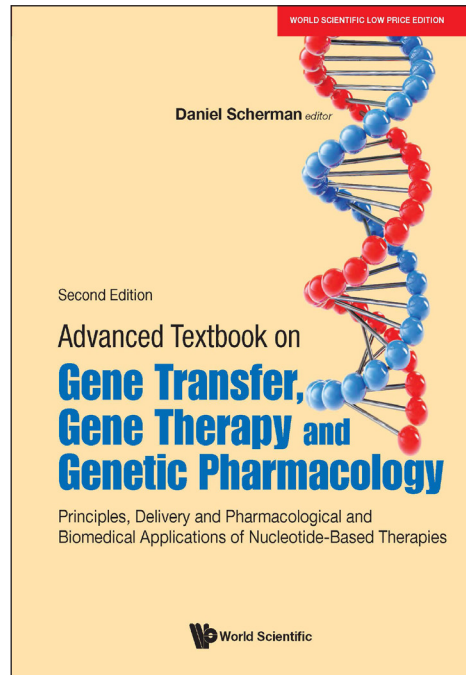


**ADVANCED TEXTBOOK ON GENE TRANSFER, GENE THERAPY
AND GENETIC PHARMACOLOGY**

Principles, Delivery and Pharmacological and Biomedical Applications of Nucleotide-Based Therapies

By
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France)



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ABOUT THE BOOK

This unique advanced textbook provides a clear and comprehensive overview of gene delivery, gene therapy and genetic pharmacology, with descriptions of the main gene transfer vectors and a set of selected therapeutic applications, along with safety considerations. The second edition features new groundbreaking material on genome editing using the recently discovered CRISPR/Cas9 system and on cancer immunotherapy by CAR-T cells. It also presents the historical milestone of gene therapy application in the field of severe combined immunodeficiency, and other fields of gene therapy and molecular medicine.

The use of gene transfer is exponentially growing in the scientific and medical communities for day-to-day cell biology experiments and swift development of gene therapy, which is already revolutionizing medicine. In this advanced textbook, more than 30 leading scientists come together to explore these topics.

This educational introduction provides the background material needed to further explore the subject as well as relevant research literature. It is an invaluable resource to Master, PhD or MD students, post-doctoral scientists or medical doctors, as well as any scientist wishing to deliver a gene or synthetic nucleotide or develop a gene therapy strategy. The second edition's simple and synthetic content will be of value to any reader interested in the biological and medical revolution derived from the elucidation of the human genome.

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Master, PhD or MD students, post-doctoral scientists or medical doctors, and any scientists using gene transfer techniques or implementing gene therapy strategies.

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- *Basic Definitions and Principles:*
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