Record Nr. UNINA9910142484203321 Gene therapy technologies, applications, and regulations: from **Titolo** laboratory to clinic / / edited by Anthony Meager Pubbl/distr/stampa Chichester, West Sussex, England:,: John Wiley & Sons, Ltd,, 1999 ©1999 **ISBN** 1-280-55444-4 9786610554447 0-470-35936-6 0-470-84238-5 0-470-85368-9 Descrizione fisica 1 online resource (439 p.) Disciplina 616.042 616/.042 Soggetti Gene therapy Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Gene Therapy Technologies, Applications and Regulations; Contents; List of contributors; Preface; 1 Cationic Liposomes for Gene Therapy Applications; 2 DNA Condensation and Receptor-mediated Gene Transfer; 3 Retroviral Vectors; 4 Lentiviral Vectors; 5 Adenoviral Vectors; 6 Adeno-associated Viral Vectors; 7 Advances in Engineering HSV Vectors for Gene Transfer to the Nervous System; 8 Mammalian Artificial Chromosomes: Prospects for Gene Therapy; 9 Gene Therapy for Severe Combined Immunodeficiency; 10 Gene Therapy for Haemophilia; 11 Cystic Fibrosis: Gene Therapy Approaches 12 Therapeutic Approaches to Haemoglobinopathies 13 Gene Therapy Approaches to Duchenne Muscular Dystrophy; 14 Lysosomal Storage Diseases: 15 Prospects for Gene Therapy of HIV Infections and AIDS: 16 The Development of the Regulatory Process in Europe for Biological Medicines: how it Affects Gene Therapy Products; 17 Development and

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Sommario/riassunto

Gene Therapy Technologies, Applications and Regulations From Laboratory to Clinic Edited by Anthony Meager Division of Immunobiology, The National Institute for Biological Standards and Control, South Mimms, UK The development of gene-based technologies has been rapid over the past decade and has consequently resulted in a surge of interest in human gene therapy, the deliberate transfer of genes to somatic cells to cure or alleviate disease symptoms. Hundreds of clinical protocols involving variously designed vectors for efficient gene transfer have been developed. However, the use of such com