Record Nr. UNINA9910145265303321 Concepts in genetic medicine [[electronic resource] /] / edited by Boro **Titolo** Dropulic, Barrie Carter Pubbl/distr/stampa Hoboken, N.J., : Wiley-Liss, c2008 **ISBN** 1-281-28442-4 9786611284428 0-470-18458-2 0-470-18457-4 Descrizione fisica 1 online resource (393 p.) Altri autori (Persone) DropulicBoro CarterBarrie 616/.042 Disciplina Soggetti Medical genetics Gene therapy Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto CONCEPTS IN GENETIC MEDICINE: CONTENTS: CONTRIBUTORS: PREFACE; INTRODUCTION; 1 The Evolution of Human Gene Therapy: A Journey from Excessive Hype to Excessive Diffidence to Reality; VECTOR SYSTEMS: 2 Murine Leukemia Virus-Based Retroviral Vectors: 3 Lentivirus Vectors; 4 Adenoviral Vectors: History and Perspective; 5 Adeno-Associated Virus Vectors; 6 SV40 Virus-Derived Vectors; 7 Herpes Simplex Virus Vectors; 8 Nonviral Gene Delivery Systems; APPLICATIONS; 9 Therapeutic Gene Transfer to Skeletal Muscle; 10 Gene Therapy for Cardiovascular Disease 11 Intra-articular Vector Delivery for Inflammatory Joint Disease 12 The Respiratory System as a Platform for Gene Delivery; 13 The Brain as a Target for Gene Therapy; 14 Immune Responses to Viral Vectors Injected Systemically or into the CNS; 15 Cancer Vaccines; 16 Genetically Modified T Cells for Human Gene Therapy; 17 Lentiviral Vector Delivery of RNAi for the Treatment of HIV-1 Infection; 18 Vector Targeting: THE MANUFACTURE OF GENE THERAPY PRODUCTS: 19 The

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Sommario/riassunto

This book delivers a collection of organized and succinct reviews in the field of therapeutic genetic medicine presented by a carefully selected group of top experts. Each chapter focuses on a single, current topic and explains issues in the development of genetic treatments, critical challenges and strategies for implementing them, and future directions in research and translational applications. The book is complemented with uniformly designed illustrations and a supplementary Web site with a PowerPoint presentation for educators.