



Genome Editing : The Next Step in Gene Therapy /

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Springer New York :
Imprint: Springer,
2016

Libros electrónicos

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Monografía

This comprehensive volume explores human genetic engineering its pre-clinical and clinical applications, current developments, and as treatment for hereditary diseases. It presents and evaluates the most recent advances in the understanding of mammalian host DNA repair mechanisms, such as double-strand break induced gene targeting and mutagenesis, the development of zinc-finger nucleases, genome editing for neuromuscular diseases, phase integrases, triplex forming oligonucleotides and peptide nucleic acids, aptamer-guided gene targeting, AAV gene editing via DSB repair, engineered nucleases and trinucleotide repeat diseases, and creation of HIV-resistant cells. The expertly authored chapters contextualize current developments within the history of genome editing while also discussing the current and potential safety concerns of this rapidly growing field. Genome Editing: The Next Step in Gene Therapy, the latest volume in the American Society of Gene and Cell Therapy series, deftly illuminates the potential of genetic engineering technology to eradicate today's deadliest and most prolific diseases. It is ideal reading for clinicians and researchers in genetics and immunology. .

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Título: Genome Editing The Next Step in Gene Therapy edited by Toni Cathomen, Matthew Hirsch, Matthew Porteus

Edición: 1st ed. 2016

Editorial: New York, NY Springer New York Imprint: Springer 2016

Descripción física: 1 recurso en línea XVI, 263 p. 48 illus., 5 illus. in color

Mención de serie: Advances in Experimental Medicine and Biology 0065-2598 Springer eBooks

Contenido: 1. Gene Editing: Double-Strand Break Induced Gene Targeting and Mutagenesis 20 Years Later -- 2. The Development and Use of Zinc-Finger Nucleases -- 3. The Use and Development of TAL Effector Nucleases -- 4. Genome Editing for Neuromuscular Diseases -- 5. Phage Integrases for Genome Editing -- 6. Precise Genome Modification Using Triplex Forming Oligonucleotides and Peptide Nucleic Acids -- 7. Genome Editing by Aptamer-Guided Gene Targeting -- 8. Stimulation of AAV Gene Editing via DSB Repair -- 9. Engineered Nucleases and Trinucleotide Repeat Diseases -- 10. Using Engineered Nucleases to Create HIV-Resistant Cells -- 11. Strategies to Determine Off-Target Effects of Engineered Nucleases

Detalles del sistema: Modo de acceso: World Wide Web

ISBN: 9781493935093 978-1-4939-3509-3

Materia: Medicine Human genetics Biomedicine Human Genetics

Autores: Cathomen, Toni., editor Hirsch, Matthew., editor Porteus, Matthew., editor

Entidades: SpringerLink (Online service)

Punto acceso adicional serie-Título: Advances in Experimental Medicine and Biology 0065-2598

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