



## Adenoviral vectors for gene therapy [

Curiel, David,  
ed

Academic Press is an imprint of Elsevier,  
2016

Monografía

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTgyODUyNzI>

**Título:** Adenoviral vectors for gene therapy [Recurso electrónico] edited by David T. Curiel

**Edición:** 2nd ed

**Editorial:** Londonm UK Academic Press is an imprint of Elsevier 2016

**Mención de serie:** Science Direct e-books

**Nota general:** Descripción basada en el recurso electrónico; tít. tomado del PDF (ScienceDirect, visitado en Marzo 22, 2016)

**Bibliografía:** Incluye referencias bibliográficas

**Contenido:** Front Cover; Adenoviral Vectors for Gene Therapy; Adenoviral Vectors for Gene Therapy; Copyright; Contents; List of Contributors; 1 -- Adenovirus Structure; 1. Historical Perspective on Adenovirus Structure; 2. Hexon Structure and Capsid Packing; 3. Penton Base Structure and Integrin-Binding RGD Loop; 4. Fiber Structure and Receptor Interactions; 5. Atomic Resolution Cryo-Electron Microscopy and X-ray Crystallographic Adenovirus Structures; 6. Hexons in the Atomic Resolution Adenovirus Structures; 7. Conformational Differences of the Penton Base in the Atomic Resolution Adenovirus Structures 8. Alternate Assignments for the Four-Helix Coiled Coil9. Protein IIIa Structure; 10. Protein IX Structure; 11. Core Protein V Structure; 12. Protein VI Structure; 13. Protein VIII Structure; 14. Adenovirus Protease; 15. Concluding Remarks; References; 2 -- Biology of Adenovirus Cell Entry: Receptors, Pathways, Mechanisms; 1. Introduction; 2. Entry Pathways: Impact of Capsid Proteins; 3. Attachment Factors and Signaling Receptors; 3.1 Accessing the CAR; 3.2 Using CD46 in High- and Low-Affinity Modes; 3.3 Desmoglein-2; 3.4 Sialic Acid; 3.5 Heparan Sulfate 3.6 Scavenger Receptors and Other Attachment Factors3.7 Internalization Co-receptors: Integrins; 3.8 Extracellular Factors Influencing Viral Tropism; 3.8.1 Coagulation Factors; 3.8.2 Immunoglobulins and Complement; 3.8.3 Lactoferrin; 3.8.4 Dipalmitoylphosphatidylcholine; 4. Endocytosis; 4.1 Clathrin-Mediated Endocytosis; 4.2 Macropinocytosis; 4.3 Phagocytosis; 4.4 Caveolar Endocytosis; 5. Endosomal Escape; 5.1 Protein VI for Membrane Lysis; 5.2 A New Concept: Hijacking Membrane Repair for Endosome Lysis; 6. Targeting the Nucleus; 6.1 Transport through the Cytoplasm 6.2 Deoxyribonucleic Acid Uncoating and Nuclear Import7. Conclusions and Perspectives; Acknowledgments; References; 3 -- Adenovirus Replication; 1. Introduction; 2. Classification; 3. Adenovirus

Genome Organization; 4. Virus Infection; 5. Early Gene Expression; 5.1 Early Region 1A; 5.2 Early Region 1B; 5.3 Early Region 2; 5.4 Early Region 3; 5.5 Early Region 4; 6. Viral DNA Replication; 7. Virus-Associated RNA Genes; 8. Late Gene Expression; 9. Viral DNA Packaging; 10. Conclusion; References; 4 -- Adenoviral Vector Construction 1.2 Adenovirus Vectors 2. Cell Lines for Propagating Adenovirus Vectors; 2.1 Propagation of Adenovirus Vectors Encoding Toxic Transgenes for Cancer Gene Therapy; 3. Construction of First-Generation Adenoviral Vectors; 3.1 Early Methods; 3.2 The Two-Plasmid Rescue System; 3.2.1 Development of the Two-Plasmid Rescue System; 3.2.2 Fine-Tuning of the Two-Plasmid Rescue System; 4. Steps Involved in Adenovirus Vector Construction; 4.1 Preparation of Adenovirus Genomic and Shuttle Plasmid DNA for Cotransfection; 4.2 Cotransfection of HEK-293 Cells with Genomic and Shuttle Plasmid

**Detalles del sistema:** Forma de acceso: World Wide Web

**ISBN:** 9780128002766 012800276X 9780128005101 0128005106

**Autores:** Curiel, David, ed

---

### **Baratz Innovación Documental**

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)