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	imaging viral therapeutics Chapter 15: Application of NMR Spectroscopy in Viral Assembly Characterization Chapter 16: Improved Production Strategies for Oncolytic Measles Viruses as a Therapeutic Cancer Treatment Chapter 17: Recent Advancements and Challenges in Recombinant Expression for Commercial Production of Virus Like Particles (VLPs) Chapter 18: Oncolytic viruses and viral gene therapy vectors: Principles of safety.
Sommario/riassunto	This book reviews the knowledge, methods and available techniques in the rapidly advancing field of virus based vaccines and gene therapeutics. It also highlights new innovative tools and interdisciplinary techniques for bioprocess development and analytics of viruses and viral vectors. As such, it provides a timely and highly relevant resource, since current advances in pharmaceutical research have seen the rise of vaccines and advanced therapeutics and medicinal products (ATMPs), that rely on the power of viruses. However, developing bioprocesses and analytics required to create this often called "magic bullet" (i.e. gene therapy) remains an extremely challenging and costly task. This book offers strategies for overcoming hurdles and difficulties within in all the necessary steps of viral vector development - from scalability to purification methods and quality control. The book is intended for researchers working in academia or industry, as well as graduate students pursuing a career in virology.