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Nota di contenuto	Microbial vaccines design : the reverse vaccinology approach / Roberto Rosini, Michele A. Barocchi, Rino Rappuoli -- Design and development of recombinant vaccines with viral properties / Gerd Lipowsky, Martin F. Bachmann -- Tools for vaccine design : prediction and validation of highly immunogenic and conserved class II epitopes, and development of epitope-driven vaccines / Anne S. De Groot ... [et al.] -- Virus like-particle vaccines advantages and challenges / Ted M. Ross ... [et al.] -- Design platforms of nanocapsules for human therapeutics or vaccines / Masaaki Kawano ... [et al.] -- Designing immunogens for vaccine development in reference to HIV / Aemro Kassa ... [et al.] -- Expression and purification of recombinant proteins for vaccine

applications / Carlo Zambonelli, Deeann Martinez-Guzmann, and Indresh K. Srivastava -- DNA vaccines for infectious disease / Samuel Stephenson, Manmohan Singh, Indresh K. Srivastava -- Developing stable cell lines for the production of vaccine antigens / Xiaotian Zhong ... [et al.] -- Spectroscopy of vaccines / C. Russell Middaugh, Sangeeta B. Joshi -- Biophysical characterization of protein antigens within vaccine formulations / Padima Malyala, Derek O'Hagan, Manmohan Singh -- Structural characteristics predict the stability of HIV / Zohar Biron ... [et al.] -- Selection of optimal adjuvants and product factors that affect vaccine immunogenicity / Wei Wang, Manmohan Singh -- Lyophilization and stabilization of vaccines / James Chesko ... [et al.] -- Effect of buffers and stabilizers on vaccine stability and efficacy / Shireesh P. Apte, Sydney Ugwu -- Selection of final product containers / Luis Baez, Adrian Distler -- From the lab to the clinic : filing a phase I IND for an investigational vaccine / Kenneth G. Surowitz.

Sommario/riassunto

Development of Vaccines: From Discovery to Clinical Testing outlines the critical steps, and analytical tools and techniques, needed to take a vaccine from discovery through a successful clinical trial. Contributions from leading experts in the critical areas of vaccine expression, purification, formulation, pre-clinical testing and regulatory submissions make this book an authoritative collection of issues, challenges and solutions for progressing a biologic drug formulation from its early stage of discovery into its final clinical testing. A section with details and real-life experien
