
Contents

<i>Preface</i>	<i>v</i>
<i>Contributors</i>	<i>ix</i>

PART I DOUBLE-STRANDED DNA VIRUSES

1 Development of Novel Vaccines Against Infectious Diseases Based on Chimpanzee Adenoviral Vector	3
<i>Chao Zhang, Yudan Chi, and Dongming Zhou</i>	
2 Development of Recombinant Canarypox Viruses Expressing Immunogens	15
<i>Débora Garanzini, Maria Paula Del Médico-Zajac, and Gabriela Calamante</i>	
3 Fowl Adenovirus-Based Vaccine Platform	29
<i>Juan C. Corredor, Yanlong Pei, and Éva Nagy</i>	
4 Development of Recombinant HSV-Based Vaccine Vectors	55
<i>Richard Voellmy, David C. Bloom, Nuria Vilaboa, and Joyce Feller</i>	
5 Generating Recombinant Pseudorabies Virus for Use as a Vaccine Platform. . .	79
<i>Feifei Tan, Xiangdong Li, and Kegong Tian</i>	
6 Generation and Production of Modified Vaccinia Virus Ankara (MVA) as a Vaccine Vector	97
<i>Vincent Pavot, Sarah Sebastian, Alison V. Turner, Jake Matthews, and Sarah C. Gilbert</i>	
7 Poxvirus Safety Analysis in the Pregnant Mouse Model, Vaccinia, and Raccoonpox Viruses	121
<i>Rachel L. Roper</i>	

PART II NEGATIVE SENSE SINGLE-STRANDED RNA VIRUSES

8 Development of Recombinant Arenavirus-Based Vaccines	133
<i>Luis Martínez-Sobrido and Juan Carlos de la Torre</i>	
9 Development of Recombinant Measles Virus-Based Vaccines.	151
<i>Michael D. Mühlbach and Stefan Hutzler</i>	
10 Recombinant Tri-Segmented Pichinde Virus as a Novel Live Viral Vaccine Platform.	169
<i>Rekha Dhanwani, Hinh Ly, and Yuying Liang</i>	
11 Human Rhinovirus-A1 as an Expression Vector.	181
<i>Khamis Tomusange, Danushka Wijesundara, Eric James Gowans, and Branka Grubor-Bauk</i>	
12 Generating Recombinant Vesicular Stomatitis Viruses for Use as Vaccine Platforms	203
<i>John B. Ruedas and John H. Connor</i>	

PART III POSITIVE SENSE SINGLE-STRANDED RNA VIRUSES

- 13 Alphavirus-Based Vaccines. 225
Kenneth Lundstrom

PART IV BACTERIOPHAGE

- 14 Display of HIV-1 Envelope Protein on Lambda Phage Scaffold
as a Vaccine Platform. 245
Jonelle L. Mattiaccio, Matt Brewer, and Stephen Dewhurst
- 15 Bacteriophage T4 as a Nanoparticle Platform to Display and Deliver Pathogen
Antigens: Construction of an Effective Anthrax Vaccine 255
Pan Tao, Qin Li, Sathish B. Shivachandra, and Venigalla B. Rao
- Index* 269

Recombinant Virus Vaccines

Methods and Protocols

Ferran, M.C.; Skuse, G.R. (Eds.)

2017, X, 273 p. 40 illus., 23 illus. in color., Hardcover

ISBN: 978-1-4939-6867-1

A product of Humana Press