

1. Record Nr.	UNINA9910460999503321
Titolo	Peptide and protein vaccines / / edited by Rossen Donev
Pubbl/distr/stampa	Amsterdam, [Netherlands] : , : Academic Press, , 2015 ©2015
ISBN	0-12-802869-6 0-12-802827-0
Descrizione fisica	1 online resource (192 p.)
Collana	Advances in Protein Chemistry and Structural Biology, , 1876-1623 ; ; Volume 99
Disciplina	572.65
Soggetti	Peptides - Therapeutic use Proteins - Therapeutic use Peptide drugs Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Front Cover; Peptide and Protein Vaccines; Copyright; Contents; Contributors; Preface; References; Chapter 1: Peptide Immunotherapy in Vaccine Development: From Epitope to Adjuvant; 1. Introduction; 2. Cancer Vaccine; 3. Allergy Vaccine; 4. Alzheimers Disease Vaccine; 5. Adjuvant and Delivery; 6. Perspectives and Conclusions; References; Chapter 2: The Use of Liposomes to Shape Epitope Structure and Modulate Immunogenic Responses of Peptide Vaccines Against...; 1. Introduction; 2. MPER: ASite of Vulnerability on HIV-1 Env and a Linear Epitope; 3. Structural Organization of MPER 3.1. Hydrophobicity Distribution 3.2. MPER Peptide Structure; 4. Lipid Vesicles: Adjuvants and Devices to Shape MPER Structure; 4.1. Liposomes as Adjuvants; 4.2. The Lipid Bilayer as an MPER Scaffold; 5. Immunogenicity Studies of MPER-Derived Peptides in Liposomes; References; Chapter 3: Recombinant Lipoproteins as Novel Vaccines with Intrinsic Adjuvant; 1. Introduction; 2. Establishment of High Expression Recombinant Lipoprotein System; 3. The Lipid Structure of Lipoprotein; 4. Recombinant Lipoprotein with Intrinsic Adjuvant

## Properties

5. To Engineer Chimeric Lipoproteins with Intrinsic Adjuvant for Novel Vaccine Development
6. Recombinant Chimeric Lipoproteins Can Activate BMDCs;
7. A Robustness Up- and Downstream Processes for Lipoprotein Production;
8. Recombinant Lipoprotein-Based Subunit Vaccine Induces High Titers of Neutralizing Antibody and Longer Memory Immune Re...;
9. Recombinant Lipidated Human Papillomavirus E7 Induces Cellular Immune Responses and Protective Immunity Against Cervic...;
10. Conclusion; Acknowledgment; References

Chapter 4: Perspective of Peptide Vaccine Composed of Epitope Peptide, CpG-DNA, and Liposome Complex Without Carriers

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3. CpG-DNA: Adjuvant;
4. Phosphodiester Bond CpG-DNA;
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- 7.1. Antibody Production with Epitope Peptide, CpG-DNA, and Liposome Complex Without Carriers;
- 7.2. Prevention of Influenza A Virus Infection;
- 7.3. Prevention of Respiratory Syncytial Virus Infection
- 7.4. Cancer Vaccine Composed of Epitope Peptide, CpG-DNA, and Liposome Complex Without Carriers
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Chapter 5: Chemical Platforms for Peptide Vaccine Constructs

1. Introduction;
2. Multiple Antigenic Peptide System Using a PolyLys Core: ABoon to Synthetic Peptide Vaccines;
3. Synthetic Antigen Carrier Bearing N-(S-acetylmercaptoacetyl)-Glutamyl Residues;
4. Thioester as a Replacement for Natural Peptide Bond (Chemical Ligation): Construction of Proteins;
5. Synthetic Peptide Dendrimer with Thiazolidinyl Pendant

6. Oxime Chemistry for Synthetic Peptide-Based Vaccines

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## Sommario/riassunto

Published continuously since 1944, the Advances in Protein Chemistry and Structural Biology series has been the essential resource for protein chemists. Each volume brings forth new information about protocols and analysis of proteins. Each thematically organized volume is guest edited by leading experts in a broad range of protein-related topics. Describes advances in application of powerful techniques in a wide bioscience area

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The information provided in the volume is well s

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