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5. To Engineer Chimeric Lipoproteins with Intrinsic Adjuvant for Novel Vaccine Development; 6. Recombinant Chimeric Lipoproteins Can Activate BMDs; 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

1. Introduction; 2. Licensed Adjuvants; 3. CpG-DNA: Adjuvant; 4. Phosphodiester Bond CpG-DNA; 5. Liposomes: Adjuvants; 6. Adjuvants for Peptide Vaccine; 7. Peptide Vaccine Composed of Epitope Peptide, CpG-DNA, and Liposome Complex Without Carriers; 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

8. Perspectives; Acknowledgments; References; Chapter 5: Chemical Platforms for Peptide Vaccine Constructs; 1. Introduction; 2. Multiple Antigenic Peptide System Using a PolyLys Core: A Boon 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

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. Chapters are written by authorities in their field. Targeted to a wide audience of researchers, specialists, and students. The information provided in the volume is well s