1. Record Nr. UNINA9910437843303321

Titolo	Immunomic discovery of adjuvants and candidate subunit vaccines / / Darren R. Flower, Yvonne Perrie, editors
Pubbl/distr/stampa	New York ; ; London, : Springer, 2013
ISBN	1-283-93385-3 1-4614-5070-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (315 p.)
Collana	Immunomics reviews ; ; 5
Classificazione	VS 9000 XD 3311
Altri autori (Persone)	FlowerDarren R PerrieYvonne
Disciplina	615.372
Soggetti	Vaccines Immunological adjuvants Antigens Vaccines - Design - History
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 and index.
Nota di contenuto	Introduction -- Bacterial genomes and vaccine design -- Identification of candidate vaccine antigens in silico -- Post-Genomic Antigen Discovery: Bioinformatical Approaches to Reveal Novel T-Cell Antigens of Mycobacterium Bovis -- Genome-based Computational Vaccine Discovery by Reverse Vaccinology -- Computational prediction of protein subcellular localization, genomic islands, and virulence to aid antigen discovery -- On the development of Vaccine Antigen Databases: Progress, Opportunity, and Challenge -- What have Dendritic Cells ever done for adjuvant design? Cellular and Molecular Methods for the Rational Development of Vaccine Adjuvants -- Towards the Rational Discovery of Adjuvants -- Designing liposomes as vaccine adjuvants -- Enhancing the delivery and potency of antigens using non-ionic based vesicles -- Immune stimulating complexes (ISCOMs) and Quil-A containing particulate formulations as vaccine delivery systems -- Formulation and characterisation of PLGA microspheres as vaccine adjuvants -- Powder Vaccines for Pulmonary Delivery.

Sommario/riassunto

Vaccine discovery is one of the most exciting and fast-moving areas of applied science. Since Edward Jenner’s work in the 18th century, vaccines have transformed health across the globe. Bringing together clinical, experimental, and computational disciplines vaccinology addresses the most pressing needs of 21st century health-care: the great infectious diseases threatening the developing world, such as HIV, Malaria, and TB; and chronic diseases, such as dementia, threatening the developed world. This volume seeks to expand the horizons of vaccine design and discovery by highlighting cutting edge work in three areas of vaccinology: the rational discovery of subunit vaccines, the identification of adjuvants, and the delivery of vaccines via state-of-the-art nanotechnology.