Vaccinology. An Essential Guide

Description:

Vaccinology: An Essential Guide is a textbook for everyone studying vaccinology in different parts of the World, including in North America, Australasia and Europe. It provides the complete picture of the vaccine development process, from conceptualization and basic immunological principles through to clinical testing and licensed vaccines, with a complete introduction to the history and practice of vaccinology, presenting the basic science relating to the host immune response to pathogens.

Vaccinology: An Essential Guide covers the safety, regulatory, ethical, and economic issues that drive vaccine development and trials, placing these in global context. It discusses vaccine delivery strategies, novel vaccine platforms (including experimental vaccines and pathogens), antigen development and selection, and vaccine modelling, and includes the development of vaccines against emerging pathogens and agents of bioterror. There are also sections devoted to veterinary vaccines and associated regulatory processes.

Vaccinology: An Essential Guide is designed for undergraduate and graduate microbiologists and immunologists, and for residents, fellows and trainees of infectious disease. It is also suitable for all those involved in designing and conducting clinical vaccine trials, and is the ideal companion to the reference Vaccinology: Principles and Practice.

Titles of related interest

Vaccinology: Principles and Practice
Morrow, Sheikh, Schmidt & Davies
2012
9781405185745

Communicable Disease Control Handbook, 3rd Edition
Hawker, Begg, Blair, Reintjes, Weinberg & Ekdahl
2012
9781444335675

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Nigel Bourne and Gregg N. Milligan

4 Pathogenesis of infectious diseases and mechanisms of immunity 59
Jere W. McBride and David H. Walker

5 The host immune response protective immunity and correlates of protection 73
Gregg N. Milligan
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