

1. Record Nr.	UNINA9910450509803321
Titolo	Bacterial evasion of host immune responses // edited by Brian Henderson, Petra C.F. Oyston [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2003
ISBN	1-107-13042-5 1-280-16049-7 9786610160495 1-139-14708-0 0-511-11939-9 0-511-05705-9 0-511-54626-2 0-511-30741-1 0-511-07184-1
Descrizione fisica	1 online resource (xvi, 304 pages) : digital, PDF file(s)
Collana	Advances in molecular and cellular microbiology ; ; 2
Disciplina	616.07/9
Soggetti	Virulence (Microbiology) - Molecular aspects Immunity Bacteria
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I. Recognition of bacteria: [Ch.] 1. The dendritic cell in bacterial infection : sentinel or Trojan horse? / Benjamin M. Chain and Janusz Marcinkiewicz -- [ch.] 2. CD1 and nonpeptide antigen recognition systems in microbial immunity / Kayvan R. Niazi, Steven A. Pocelli, and Robert L. Modlin -- [ch.] 3. The NRAMP family : co-evolution of a host/pathogen defence system -- Part II. Evasion of humoral immunity: [ch.] 4. Evasion of complement system pathwas by bacteria / Michael A. Kerr and Brian Henderson -- [ch.] 5. Bacterial immunoglobulin-evading mechanisms : Ig-dregrading and Ig-binding proteins / Mogen Kilian -- [ch.] 6. Evasion of antibody responses : bacterial phase variation / Nigel J. Saunders -- Part III. Evasion of cellular immunity: [ch.] 7. Type III protein secretion and resistance to phagocytosis / Ake Forsberg,

Roland Rosqvist and Maria Fallman -- [ch.] 8. Bacterial superantigens and immune evasion / John Fraser, Thomas Proft, Vickery Arcus and Edward Baker -- [ch.] 9. Bacterial quorum sensing signalling molecules as immune modulators / David Pritchard, Doreen Hooi, Eleanor Watson, Sek Chow, Gary Telford, Barrie Bycroft, Siri Ram Chhabra, Christopher Harty, Miguel Camara, Stephen Diggle and Paul Williams -- [ch.] 10. Microbial modulation of cytokine networks / B. Henderson and Rob M. Seymour -- [ch.] 11. Enterotoxins : adjuvants and immune inhibitors / Jan-Michael Klapproth and Michael S. Donnenberg -- [ch.]. 12. Type III protein secretion and inhibition of NF- κ B / Klaus Ruckdeschel, Bruno Rouot and Jurgen Heesemann.

Sommario/riassunto

Our survival as multicellular organisms requires the constant surveillance of our internal and external (mucosal) environments by the multifarious elements of the innate and acquired systems of immunity. The objective of this surveillance, expensive as it is to the organisms, is to recognise and kill invading microorganisms. Over the past fifty years the cells and mediators involved in our immune defences have been painstakingly identified. However, it is only relatively recently that the ability of microorganisms to evade immunity has been recognised and investigated. Bacterial Evasion of Host Immune Responses introduces the reader to the mechanisms used by bacteria to evade both humoral and cellular immune responses, using systems ranging in complexity from the simple quorum sensing molecules - acyl homoserine lactones - to the supramolecular syringe-like devices of type III secretion systems. This book will be of interest to researchers and graduate students in microbiology, immunology, pharmacology and molecular medicine.
