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Virulence Mechanisms of Bacterial Pathogens, 4th Edition

Editors: Kim A. Brogden, F. Chris Minion, Nancy Cornick, Thaddeus B. Stanton, Qijing Zhang, Lisa K. Nolan, and Michael J. Wannenmuehler

Organized into six accessible sections, this unique volume broadly reviews the pathogenesis of bacterial diseases and mechanisms of host-pathogen interactions for non-specialists and advanced students in the fields of bacteriology and immunology. Beginning with a section on virulence genes, the book continues with sections on pathogenic microbial communities; bacterial attachment, invasion, and colonization; bacterial effects on host cells; and resistance to pathogens. The last section contains a concluding perspective on the state and future of studies on bacterial pathogenicity.

The Innate Immune Response to Infection

Editors: Stefan H. E. Kaufmann, Ruslan Medzhitov, and Stanton Gordon

Unique in its presentation, this volume covers all aspects of innate immunity with an emphasis on response to infectious agents. Written by experts in the field, the book focuses on evolutionary aspects, describing the major cells, humoral factors, receptors, and effector responses central to innate immunity and its important relation to acquired immunity. In-depth treatment is given to the performance of the innate immune system in various situations, including bacterial, viral, fungal, and parasitic infection.

Forgotten People, Forgotten Diseases: the Neglected Tropical Diseases and Their Impact on Global Health and Development

Author: Peter J. Hotez

Some of the worst tropical diseases in the world have too long been ignored. Parasitic and bacterial diseases such as hookworm, snail fever, river blindness, guinea worm, elephantiasis, sleeping sickness, and leprosy are the most common infections of third-world populations. These neglected tropical diseases (NTDs) represent one of the most important reasons why populations living in Africa, Asia, and Central and South America remain caught in a vicious cycle of poverty, stigma, and despair. The book addresses unique opportunities to fight the NTDs through low-cost and highly cost-effective control measures.



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