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Altri autori (Persone)	TibayrencMichel
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Nota di contenuto	Recent developments in the definition and official names of virus species / M.H.V. Van Regenmortel -- A theory-based pragmatism for discovering and classifying newly divergent species of bacterial pathogens / F.M. Cohan, Sarah Kopac -- Population structure of pathogenic bacteria / C.P. Andam, L. Challagundla, T. Azarian, W.P. Hanage, D.A. Robinson -- Epidemiology and evolution of fungal pathogens in plants / P. Gladieux, E.J. Byrnes III, G. Aguilera, M. Fisher, R.B. Billmyre, J. Heitman, T. Giraud -- Clonal evolution / T. de Meeus, F. Prugnolle -- Coevolution of host and pathogen / A.D. Morgan, B. Koskella -- Microbes as tracers of past human demography and migrations / J.-P. Rasigade, A. Gilabert, T. Wirth -- Phylogenetic analysis of pathogens / D.A. Morrison -- Evolutionary responses of infectious diseases / G. Cochran, H. Harpending -- Infectious disease genomics / Y.-T. Liu -- Proteomics and host-pathogen interactions / D.G. Biron, D. Nedelkov, D. Misse, P. Holzmuller -- The evolution of antibiotic resistance / F. Gonzalez-Candelas, I. Comas, J.L. Martinez, J.

C. Galan, F. Baquero -- Modern morphometrics of medically important anthropods / J.-P. Dujardin -- Evolution of resistance to insecticide in disease vectors / P. Labbe, J.-P. David, H. Alout, P. Milesi, L. Djogbenou, N. Pasteur, M. Weill -- Genetics of major insect vectors / P. L. Dorn, S. Justi, E.S. Krasfur, G.C. Lanzaro, A.J. Cornel, Y. Lee, C.A. Hill -- Multilocus sequence typing of pathogens / M. Perez-Losada, M. Arenas, E. Castro-Nallar -- Next-generation sequencing, bioinformatics, and infectious diseases / R. van Aerle, M. van der Giezen -- Genomics of infectious diseases and private industry / G. Vernet -- Current progress in the pharmacogenetics of infectious disease therapy / E. Elliot, T. Mahungu, A. Owen -- Genetic exchange in trypanosomatids and its relevance to epidemiology / W. Gibson, M.D. Lewis, M. Yeo, M.A. Miles -- Genomic insights into the past, current, and future evolution of human parasites of the genus plasmodium / C. J. Sutherland, S.D. Polley -- Integrated genetic epidemiology of chagas disease / M. Tibayrenc, M.A. Shaw -- Adaptive evolution of the mycobacterium tuberculosis complex to different hosts / E. Broset, J. Gonzalo-Asensio -- The evolution and dynamics of methicillin-resistant staphylococcus aureus / M.M.H. Adelbary, P. Basset, D.S. Blanc, E.J. Feil -- Origin and emergence of HIV/AIDS / M. D'arc, L. Etienne, E. Delaporte, M. Peeters -- Evolution of SARS coronavirus and the relevance of modern molecular epidemiology / Z. Shi, L.-F. Wang -- Ecology and evolution of avian influenza viruses / A.C. Hurt, R.A.M. Fouchier, D. Vijaykrishna.

Sommario/riassunto

Genetics and Evolution of Infectious Diseases, Second Edition, discusses the constantly evolving field of infectious diseases and their continued impact on the health of populations, especially in resource-limited areas of the world. Students in public health, biomedical professionals, clinicians, public health practitioners, and decision-makers will find valuable information in this book that is relevant to the control and prevention of neglected and emerging worldwide diseases that are a major cause of global morbidity, disability, and mortality. Although substantial gains have been made in public health interventions for the treatment, prevention, and control of infectious diseases during the last century, in recent decades the world has witnessed a worldwide human immunodeficiency virus (HIV) pandemic, increasing antimicrobial resistance, and the emergence of many new bacterial, fungal, parasitic, and viral pathogens. The economic, social, and political burden of infectious diseases is most evident in developing countries which must confront the dual burden of death and disability due to infectious and chronic illnesses.- Takes an integrated approach to infectious diseases- Includes contributions from leading authorities- Provides the latest developments in the field of infectious disease
