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S Peter Borriello, W. W. C. Topley

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between public health and infectious disease Public Health and Infectious Diseases brings together chapters that explain reasons for the emergence of these infectious diseases These include the ecological context of human interactions with other humans with animals that may host human pathogens and with a changing agricultural and industrial environment increasing resistance to antimicrobials the ubiquity of global travel and international commerce Features the latest discoveries related to influenza with a newly published article by Davidson Hamer and Jean van Seventer Provides a listing of rare diseases that have become resurgent or spread their geographic distribution and are re emergent Highlights dengue and malaria as well as agents such as West Nile and other arboviruses that have spread to new continents causing widespread concerns Includes discussions of climate influencing the spread of infectious disease and political and societal Walker's Pediatric Gastrointestinal Disease Ronald E. Kleinman, Olivier-Jean Goulet, Giorgina Mieli-Vergani, Ian R. aspects Sanderson, Philip M. Sherman, Benjamin L. Shneider, 2018-06-04 Foodborne Pathogens Joshua B. Gurtler, Michael P. Doyle, Jeffrey L. Kornacki, 2017-06-14 Foodborne illnesses continue to be a major public health concern All members of a particular bacterial genera e g Salmonella Campylobacter or species e g Listeria monocytogenes Cronobacter sakazakii are often treated by public health and regulatory agencies as being equally pathogenic however this is not necessarily true and is an overly conservative approach to ensuring the safety of foods Even within species virulence factors vary to the point that some isolates may be highly virulent whereas others may rarely if ever cause disease in humans Hence many food safety scientists have concluded that a more appropriate characterization of bacterial isolates for public health purposes could be by virotyping i e typing food associated bacteria on the basis of their virulence factors. The book is divided into two sections Section I Foodborne Pathogens and Virulence Factors hones in on specific virulence factors of foodborne pathogens and the role they play in regulatory requirements recalls and foodborne illness The oft held paradigm that all pathogenic strains are equally virulent is untrue Thus we will examine variability in virulence between strains such as Listeria Salmonella Campylobacter Cronobacter etc This section also examines known factors capable of inducing greater virulence in foodborne pathogens Section II Foodborne Pathogens Host Susceptibility and Infectious Dose covers the ability of a pathogen to invade a human host based on numerous extraneous factors relative to the host and the environment Some of these factors include host age immune status genetic makeup infectious dose food composition and probiotics Readers of this book will come away with a better understanding of foodborne bacterial pathogen virulence factors and pathogenicity and host factors that predict the severity of disease in humans Mims' Medical Microbiology Cedric A. Mims, 2008 This title takes a thoroughly modern and clinically relevant approach to microbiology discussing the organ systems in turn and addressing the diseases caused by invading microbes within each Topley & Wilson's Microbiology and Microbial Infections William Whiteman Carlton Topley, Sir Graham Selby Wilson, 1998 Demonstration of 20 of the 234 chapters including extra illustrations Topley & Wilson's Microbiology & Microbial Infections William Whiteman Carlton Topley, Sir Graham Selby Wilson, Brian W. J.

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