

# Yersinia: Systems Biology and Control



Three members of the genus *Yersinia* are important human pathogens, causing diseases ranging from the deadly Plague (*Yersinia pestis*) to a relatively mild gastroenteritis (*Y. enterocolitica* and *Y. pseudotuberculosis*). Plague, a re-emerging disease, is endemic in many parts of the world. The extraordinary pathogenicity of *Y. pestis* makes it a potential bioterrorist weapon. On the other hand, the two enteropathogenic *Yersinia* species represent the third most common bacterial cause of gastroenteritis in Europe and probably elsewhere, although their prevalence is largely underestimated. This, and the emergence of antibiotic resistant *Y. pestis* in recent years, highlights the urgency to understand the mechanisms of pathogenicity and the need to devise new strategies for the prevention and control of human pathogenic *Yersinia*. In this book, leading *Yersinia* researchers review the hot topics in the systems biology and the control of these important bacteria. Topics include: transcriptome analysis of the bacterial response to the host, and of the host response, to a *Yersinia* infection \* proteome analysis of the bacterial and host responses \* treatment and antibiotic resistance \* vaccines \* surveillance \* control. The book will be essential reading for everyone working on *Yersinia* and related organisms. It is recommended reading for researchers interested in biodefense, microbial genomics, and the evolution of microbial virulence.

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