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Nota di contenuto	Invasion mechanisms of salmonella / Beth A. McCormick -- Shigella invasion / Chihiro Sasakawa -- How Yersinia escapes the host: To yop or not to yop / Geertrui Denecker and Guy R. Cornelis -- Stealth warfare: the interactions of EPEC and EHEC with host cells / Emma Allen-Vercoe and Rebekah DeVinney -- Molecular ecology and cell biology of legionella pneumophila / Maelle Molmeret, Dina M. Bitar, and Yousef Abu Kwaik -- Listeria monocytogenes invasion and intracellular growth / Kendy K.Y. Wong and Nancy E. Freitag -- N. gonorrhoeae: The varying mechanism of pathogenesis in males and females / Jennifer L. Edwards, Hillery A. Harvey, and Michael A. Apicella -- Group A streptococcal invasion of host cells / Harry S. Courtney and Andreas Podbielski -- Invasion of oral epithelial cells by Actinobacillus

actinomycetemcomitans / Diane Hutchins Meyer, Joan E. Lippmann, and Paula Fives-Taylor -- Invasion by Porphyromonas gingivalis / Ozlem Yilmaz and Richard J. Lamont.

Sommario/riassunto

This book concerns the intimate association between bacteria and host cells. Many bacterial pathogens are able to invade and survive within cells at mucosal membranes. Remarkably, the bacteria themselves orchestrate this process through the exploitation of host cellular signal transduction pathways. Intracellular invasion can lead to disruption of host tissue integrity and perturbation of the immune system. An understanding of the molecular basis of bacterial invasion and of host cell adaptation to intracellular bacteria will provide fundamental insights into the pathophysiology of bacteria and the cell biology of the host. The book details specific examples of bacteria that are masters of manipulation of eukaryotic cell signaling and relates these events to the broader context of host-pathogen interaction. Written by experts in the field, this book will be of interest to researchers and graduate students in microbiology, immunology, biochemistry, as well as molecular medicine and dentistry.