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Collana	Advances in molecular and cellular microbiology ; ; 19
Altri autori (Persone)	KiddStephen P
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Oxidative and nitrosative stress defence systems in <i>escherichia coli</i> and <i>pseudomonas aeruginosa</i> : a model organism of study versus a human opportunistic pathogen / by James A. Imlay and Daniel J. Hassett -- Coordinated regulation of stress and virulence adaptations in stages of <i>haemophilus</i> pathogenesis / by Sandy M. S. Wong and Brain J. Akerley -- Nitric oxide stress in <i>escherichia coli</i> and <i>salmonella</i> / by Stephen Spiro -- Nitric oxide and gram-positive pathogens : host triggers and bacterial defence mechanisms / by Glen C. Ulett and Adam J. Potter -- Novel regulation in response to host generated stresses : the Merr family of regulators in pathogenic bacteria / by Stephen P. Kidd -- Stress responses in pathogenic <i>neisseria</i> : overlapping regulons and SRNA regulation / by Stuart A. Hill -- Acid survival mechanisms of bacterial pathogens of the digestive tract / by Hanan Gancz and D. Scott Merrell -- Urease and the bacterial acid stress response / by Peter Chivers -- Secretion systems and metabolism in pathogenic <i>yersinia</i> / by Matthew S. Francis -- Response of <i>neisseria gonorrhoeae</i> to oxygen limitation and excess / by Jeffery A. Cole -- Copper and zinc stress in bacteria / by Selina R. Clayton, Karin Heurlier, Taku Oshim, and Jon. L. Hobman -- Metal ion sensing in <i>mycobacterium tuberculosis</i> / by

Jennifer S. Cavet -- *Salmonella and the host in the battle for iron -- by Elisa Deriu, Janet Z. Liu and Manuela Raffatellu.*

Sommario/riassunto

The ability of pathogenic bacteria to adapt to various chemical, biochemical and physical conditions within the human host and their ability to respond to stresses generated in these environments is a central feature of infectious diseases and the outcome of bacterial infection. This book covers the key aspects of this rapidly developing field, including the generation of stresses by the host immune system, bacterial response to reactive chemicals, and adaptation to environmental conditions of anatomical niches such as the gut, mouth and urogenital tract. It also addresses the increasing impor

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