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Nota di contenuto	CONTENTS; Contributors; Preface; Acknowledgments; I. GENERAL PRINCIPLES; 1. Structure and Evolution of Transcriptional Regulatory Networks; 2. Architecture and Dynamics of Transcriptional Networks; 3. Regulation by Alternative Sigma Factors; 4. The Role of Two-Component Signal Transduction Systems in Bacterial Stress Responses; 5. Roles of mRNA Stability, Translational Regulation, and Small RNAs in Stress Response Regulation; 6 Role of Proteolysis and Chaperones in Stress Response and Regulation; II. SPECIES STRESS RESPONSES; 7. Cellular Response to Heat Shock and Cold Shock 8. Envelope Stress9. Osmotic Stress; 10 Sensing and Responding to Reactive Oxygen and Nitrogen Species; 11. Global Responses of Bacteria to Oxygen Deprivation; 12. Sensing Metals: the Versatility of Fur; 13. The DNA Damage Response; III. GENERAL STRESS RESPONSES; 14. The Stringent Response; 15. The General Stress Response in Gram-Negative Bacteria; 16. The General Stress Response in Alphaproteobacteria; 17. General Stress Response in Bacillus subtilis

and Related Gram-Positive Bacteria; 18. Resistance of Bacterial Spores; 19. Protection against Foreign DNA
20. More than Just a Quorum: Integration of Stress and Other Environmental Cues in Acyl-Homoserine Lactone Signaling21. Biofilms; 22. Persister Bacteria; IV. PATHOGENIC RESPONSES; 23. Bacterial Responses to the Host Cell; 24. Phase Variation; V. BACTERIA THRIVING IN STRESSFUL ENVIRONMENTS; 25. Metamicrobiology: Analyzing Microbial Behavior at the Community Level; 26. Life at te Extremes of Temperature; 27. Comparative Genomics of Stress Response Systems in Deinococcus Bacteria; VI. APPLICATIONS OF STRESS RESPONSE STUDIES 28. Redox Mechanisms and Reactive Oxygen Species in Antibiotic Action and Resistance29. Applications of Stress Response Studies: Biofuel Production; 30. Microbial Bioremediation of Chemical Pollutants: How Bacteria Cope with Multi-Stress Environmental Scenarios; Index

Sommario/riassunto

The second edition of Bacterial Stress Responses incorporates and reviews the vast number of new findings that have greatly advanced the understanding of bacterial stress responses in the decade since the publication of the first edition. Readers will discover how this improved understanding not only enhances our knowledge of all cellular regulation at the molecular level, but also provides new ammunition in the fight against pathogens and helps optimize the use of bacteria in biotechnology.

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Autore	Parkinson John B.
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