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Titolo	Extremophiles [[electronic resource]] : sustainable resources and biotechnological implications / / edited by Om V. Singh
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ISBN	1-118-39411-9 1-118-39414-3 1-283-70546-X 1-118-39412-7
Descrizione fisica	1 online resource (472 p.)
Altri autori (Persone)	SinghOm V
Disciplina	578.75/8
Soggetti	Extreme environments - Microbiology Microbial biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	EXTREMOPHILES; Contents; Contributors; Introduction; 1 MOLECULAR EVOLUTION OF EXTREMOPHILES; 1.1 Introduction; 1.2 Molecular Evolution of Thermophiles; 1.2.1 Habitat; 1.2.2 Cellular Organization; 1.2.3 Genome; 1.2.4 Proteome; 1.3 Molecular Evolution of Psychrophiles; 1.3.1 Habitat; 1.3.2 Cellular Organization; 1.3.3 Genome; 1.3.4 Proteome; 1.4 Molecular Evolution of Halophiles; 1.4.1 Habitat; 1.4.2 Cellular Organization; 1.4.3 Genome; 1.4.4 Proteome; 1.5 Molecular Evolution of Alkaliphiles; 1.5.1 Habitat; 1.5.2 Cellular Organization; 1.5.3 Genome; 1.5.4 Proteome 1.6 Molecular Evolution of Acidophiles1.6.1 Habitat; 1.6.2 Cellular Organization; 1.6.3 Genome; 1.6.4 Proteome; 1.7 Molecular Evolution of Barophiles; 1.7.1 Habitat; 1.7.2 Cellular Organization; 1.7.3 Genome; 1.7.4 Proteome; 1.8 Engineering Extremophiles; 1.8.1 Microbiology; 1.8.2 Molecular Biology; 1.8.3 Bioinformatics; 1.9 Case Studies; 1.9.1 Biofuel Production; 1.9.2 Bioremediation; 1.9.3 Pesticide Biodegradation; 1.9.4 Escherichia coli: A Candidate Extremophile; 1.9.5 Oil-Spill-Cleaning Bacteria; 1.9.6 Potential Applications and Benefits 1.10 Implications of Engineered Extremophiles on Ecology, Environment, and Health1.11 Conclusions and Recommendations;

References; 2 ATTAINING EXTREMOPHILES AND EXTREMOLYTES: METHODOLOGIES AND LIMITATIONS; 2.1 Introduction; 2.2 Extremophiles: Types and Diversity; 2.2.1 Thermophiles; 2.2.2 Psychrophiles; 2.2.3 Halophiles; 2.2.4 Alkaliphiles; 2.2.5 Acidophiles; 2.2.6 Barophiles; 2.3 Extremolytes; 2.3.1 Production and Purification of Extremolytes; 2.3.2 Detection, Identification, and Quantification of Extremolytes; 2.3.3 Limitations; 2.4 Conclusions; References

3 STRATEGIES FOR THE ISOLATION AND CULTIVATION OF HALOPHILIC MICROORGANISMS 3.1 Introduction; 3.2 Thalassohaline and Athalassohaline Hypersaline Environments; 3.3 Case Studies; 3.3.1 Isolation of Aerobic Chemoheterotrophic Archaea from Solar Salterns; 3.3.2 Magnesium-Requiring and Magnesium-Tolerant Archaea from the Dead Sea; 3.3.3 Isolation of Acidophilic Halophilic Archaea; 3.3.4 Isolation of Unusual Anaerobic Halophiles from Deep-Sea Brines; 3.3.5 Isolation of Polyextremophilic Anaerobic Halophiles; 3.3.6 Isolation of Halophilic Microorganisms Associated with Plants and Animals 3.3.7 Isolation of Halophilic Archaea from Low-Salt Environments 3.4 The Upper Salinity Limits of Different Types of Energy Generation; 3.5 Final Comments; References; 4 HALOPHILIC PROPERTIES AND THEIR MANIPULATION AND APPLICATION; 4.1 Introduction; 4.2 Industrial Applications of Halophilic Organisms and Their Proteins; 4.3 Extreme and Moderate Halophiles and Their Proteins; 4.4 Generation of Low-Salt Stable Extreme-Halophilic Proteins; 4.5 Interconversion of Halophilic and Nonhalophilic Proteins; 4.5.1 Dimer-Tetramer Conversion of HaNDK and PaNDK; 4.5.2 Generation of Halophilic PaNDK 4.6 Soluble Expression of Recombinant Proteins

Sommario/riassunto

Explores the utility and potential of extremophiles in sustainability and biotechnology. Many extremophilic bio-products are already used as life-saving drugs. Until recently, however, the difficulty of working with these microbes has discouraged efforts to develop extremophilic microbes as potential drug reservoirs of the future. Recent technological advances have opened the door to exploring these organisms anew as sources of products that might prove useful in clinical and environmental biotechnology and drug development. Extremophiles features outstanding article

2. Record Nr.	UNINA9910723700703321
Autore	Asperen Hanneke van
Titolo	Dealing with Disasters from Early Modern to Modern Times : Cultural Responses to Catastrophes
Pubbl/distr/stampa	Amsterdam : , : Amsterdam University Press, , 2023 ©2023
ISBN	9789048557707 9048557704
Edizione	[1st ed.]
Descrizione fisica	1 online resource (339 pages)
Collana	Disaster Studies ; ; v.1
Altri autori (Persone)	JensenLotte
Disciplina	363.3409
Soggetti	Disasters
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frontmatter -- Table of Contents -- List of Illustrations -- Plate signed Graafland (probably Rob Graafland), The Storm of August 1925 -- Introduction: Cultural Responses to Catastrophes from Early Modern to Modern Times -- Part 1: Disaster and Emotions -- 1. Temporality, Emotion, and Gender in Leonardo da Vinci's Conceptualisation of Natural Violence -- 2. Early Modern Community Formation Across Northern Europe -- 3. Landscape as Wounded Body -- 4. Suffering Compatriots -- 5. Cultural Resilience during Nineteenth-Century Cholera Outbreaks in the Netherlands -- Part 2: Disaster and Blame -- 6. Dealing in Disasters -- 7. The Ten Plagues of the New World -- 8. 'Hungry Balliz Wants Weel Fillin' -- 9. Rinderpest in Dutch Regional Fiction -- Part 3: Disaster and Time -- 10. Coping with Epidemics in Early Modern Chronicles, The Low Countries, 1500-1850 -- 11. Coverage in Dutch Newspapers of Earthquakes in Italy and Beyond before Lisbon 1755 -- 12. The Development of Disaster Prints and Publications in Japan, 1663-1923 -- 13. Breaking the Cycles of Catastrophe -- 14. Disaster Memory and 'Banished Memory' -- About the Author
Sommario/riassunto	The book, edited by Hanneke van Asperen and Lotte Jensen, explores the cultural responses to disasters such as floods, famines, earthquakes, and epidemics from early modern to modern times. It

discusses the impact of socioeconomic and political conditions on disaster interpretation, the role of media in disseminating news about catastrophic events, and the cultural repertoires through which disasters have been mediated. The book also addresses the strategies communities have employed to cope with disasters, and how these events have shaped local and national identities. The authors aim to contribute to modern debates about cultural and creative strategies in response to disasters.
