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Titolo	Ecology and control of introduced plants // Judith H. Myers, Dawn Bazely [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2003
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Descrizione fisica	1 online resource (xiv, 313 pages) : digital, PDF file(s)
Collana	Ecology, biodiversity, and conservation
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Sommario/riassunto

The global spread of plant species by humans is both a fascinating large scale experiment and, in many cases, a major perturbation to native plant communities. Many of the most destructive weeds today have been intentionally introduced to new environments where they have had unexpected and detrimental impacts. This 2003 book considers the problem of invasive introduced plants from historical, ecological and sociological perspectives. We consider such questions as 'What makes a community invasible?', 'What makes a plant an invader?' and 'Can we restore plant communities after invasion?' Written with advanced students and land managers in mind, this book contains practical explanations, case studies and an introduction to basic techniques for evaluating the impacts of invasive plants. An underlying theme is that experimental and quantitative evaluation of potential problems is necessary, and solutions must consider the evolutionary and ecological constraints acting on species interactions in newly invaded communities.

2. Record Nr.	UNINA9910813330403321
Titolo	Protein aggregation in bacteria : functional and structural properties of inclusion bodies in bacterial cells // edited by Silvia Maria Doglia, Marina Lotti
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ISBN	1-118-84536-6 1-118-85503-5
Descrizione fisica	1 online resource (300 p.)
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Nota di contenuto	Protein Aggregation in Bacteria: Functional and Structural Properties of Inclusion Bodies in Bacterial Cells; Copyright; Contents; Contributors;

Preface ; Introduction to the WileySeries in Protein and PeptideScience;
1 Fundamentals of Protein Folding ; 1.1 Folding-misfolding-nonfolding
crossroads; 1.2 Protein folding; 1.2.1 Protein-Folding Code; 1.2.2
Protein-Folding Models; 1.2.3 Polymer Aspects of Protein Folding; 1.2.4
Different Conformations Seen in Protein Folding; 1.3 Nonfolding; 1.3.1
Intrinsically Disordered Proteins and Their Abundance; 1.3.2 Some
Functional Advantages of IDPs
1.3.3 Function-Induced Folding of IDPs1.3.4 IDPs and Human Diseases;
1.3.5 How Does an Amino Acid Sequence Encode Intrinsic Disorder?;
1.3.6 Polymer Aspects of Nonfolding; 1.4 Misfolding; 1.4.1 Molecular
Mechanisms of Protein Misfolding; 1.4.2 Fibrillogenesis of Globular
Proteins: Requirement for Partial Unfolding; 1.4.3 Fibrillogenesis of
IDPs: Requirement for Partial Folding; 1.4.4 Conformational
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2 Recruiting Unfolding Chaperones to Solubilize Misfolded
Recombinant Proteins 2.1 Introduction; 2.2 Chemical Chaperones; 2.3
PPIs and PDIs are folding enzymes; 2.4 Molecular Chaperones; 2.5 The
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Conclusions; References; 3 Osmolytes as Chemical Chaperones to Use
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routes?; 3.3 Proposed molecular mechanisms for osmolyte activities;
3.4 Osmolytes and expression of recombinant proteins
3.5 Biotechnological relevance of osmolytes for preserving purified
proteins3.6 Conclusions; References; 4 Inclusion Bodies in the Study of
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Amyloid Conformations Inside IBs ; 4.3 Formation of IBs ; 4.3.1 In Vivo
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4.3.3 Sequence Specificity in IB Formation; 4.4 IBs as the simplest
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Aggregation
4.4.2 Citotoxicity of Amyloid IBs 4.4.3 Infectious Properties of IBs ; 4.5
Using IBs to screen for amyloid inhibitors; 4.6 Conclusions; References;
5 Protein Aggregation in Unicellular Eukaryotes ; 5.1 Introduction; 5.2
UPR: Unfolded protein response in the ER; 5.3 Removing persistent
misfolded proteins with the proteasome; 5.4 Lysosomal/vacuolar
proteolysis (overload UPS); 5.4.1 Autophagy; 5.4.2 Selective Types of
Autophagy; 5.5 Refolding of protein aggregates in cytosol and nucleus;
5.6 JUNQ and IPOD; 5.7 Segregation of aggregates in yeast
5.8 Proteins forming nonpathological amyloid-like fibrils in unicellular
eukaryotes

Sommario/riassunto

This book focuses on the aggregation of recombinant proteins in bacterial cells in the form of inclusion bodies. Recent reports revolutionized the current view of inclusion bodies from that of inert deposits of inactive proteins to reservoirs of proteins that can eventually maintain biological activity and/or be rescued by cells. Aggregation is put in the context of updated knowledge about the folding and aggregation of proteins in simple cells and new perspectives derived from the application of this knowledge are presented. The following topics are addressed: a) molecular and c
