1. Record Nr. UNINA9910144008303321

Titolo	Protein degradation . Volume 2 The Ubiquitin-proteasome system [[electronic resource] /] / R. John Mayer, Aaron Ciechanover, Martin Rechsteiner, eds
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2006
ISBN	1-282-37220-3 9786612372209 3-527-62021-4 3-527-62036-2
Descrizione fisica	1 online resource (302 p.)
Collana	Protein Degradation ; ; v.9
Altri autori (Persone)	MayerR. J CiechanoverAaron J RechsteinerMartin
Disciplina	572.76 612.3/98
Soggetti	Proteins - Metabolism Ubiquitin Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Protein Degradation; Contents; Preface; List of Contributors; 1 Molecular Chaperones and the Ubiquitin-Proteasome System; 1.1 Introduction; 1.2 A Biomedical Perspective; 1.3 Molecular Chaperones: Mode of Action and Cellular Functions; 1.3.1 The Hsp70 Family; 1.3.2 The Hsp90 Family; 1.3.3 The Small Heat Shock Proteins; 1.3.4 Chaperonins; 1.4 Chaperones: Central Players During Protein Quality Control; 1.5 Chaperones and Protein Degradation; 1.6 The CHIP Ubiquitin Ligase: A Link Between Folding and Degradation Systems 1.7 Other Proteins That May Influence the Balance Between Chaperone-assisted Folding and Degradation1.8 Further Considerations; 1.9 Conclusions; References; 2 Molecular Dissection of Autophagy in the Yeast Saccharomyces cerevisiae; 2.1 Introduction; 2.2 Vacuoles as a Lytic Compartment in Yeast; 2.3 Discovery of Autophagy in Yeast; 2.4 Genetic Dissection of Autophagy; 2.5 Characterization of Autophagy-

defective Mutants; 2.6 Cloning of ATG Genes; 2.7 Further Genes Required for Autophagy; 2.8 Selectivity of Proteins Degraded; 2.9 Induction of Autophagy; 2.10 Membrane Dynamics During Autophagy 2.11 Monitoring Methods of Autophagy in the Yeast S. cerevisiae2.12 Function of Atg Proteins; 2.12.1 The Atg12 Protein Conjugation System; 2.12.2 The Atg8 System; 2.12.3 The Atg1 Kinase Complex; 2.12.4 Autophagy-specific PI3 Kinase Complex; 2.12.5 Other Atg Proteins; 2.13 Site of Atg Protein Functioning: The Pre-autophagosomal Structure; 2.14 Atg Proteins in Higher Eukaryotes; 2.15 Atg Proteins as Markers for Autophagy in Mammalian Cells; 2.16 Physiological Role of Autophagy in Multicellular Organisms; 2.17 Perspectives; References
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4 MEKK1: Dual Function as a Protein Kinase and a Ubiquitin Protein Ligase

Sommario/riassunto

The second volume in a new series dedicated to protein degradation, this book discusses the mechanism and cellular functions of targeted protein breakdown via the ubiquitin pathway.Drawing on the combined knowledge of the world's leading protein degradation experts, this handy reference compiles information on the proteasome-mediated degradation steps of the ubiquitin pathway. In addition to proteasomal function and regulation, it also presents the latest results on novel members of the ubiquitin superfamily and their role in cellular regulation.Further volumes in the series cover the