

1. Record Nr.	UNINA9910777054103321
Titolo	The ubiquitin-proteasome proteolytic system [[electronic resource] ] : from classical biochemistry to human diseases // editors, Aaron J. Ciechanover, Maria G. Masucci
Pubbl/distr/stampa	New Jersey, : World Scientific, c2002
ISBN	981-277-687-7
Descrizione fisica	1 online resource (242 p.)
Collana	Recent advances in human biology ; ; v. 9
Altri autori (Persone)	CiechanoverAaron J MasucciMaria G
Disciplina	612/.01575
Soggetti	Ubiquitin Proteolytic enzymes Proteins - Metabolism
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.
Nota di contenuto	Contents ; Preface ; The Ubiquitin System and Some of Its Roles in Cell Cycle Control ; References ; The Ubiquitin System and the N-End Rule Pathway ; Summary ; The Ubiquitin System ; The N-End Rule Pathway ; Physical Association of Ubiquitin Ligases and the 26S Proteasome Peptide Import and the N-End Rule Pathway The N-End Rule Pathway and Fidelity of Chromosome Segregation ; Concluding Remarks ; References ; Phosphorylation-Dependent Substrate Recognition in Ubiquitin-Mediated Proteolysis ; Abstract Modular Protein Interaction Domains Regulate Dynamic Cellular Behaviour Protein-Protein Interactions Determine Specificity in Ubiquitin-Mediated Proteolysis ; Cdk Activity and the Control of DNA Replication ; Discovery of SCF Ubiquitin Ligases Phosphorylation-Dependent Substrate Recognition by SCF Complexes Conservation of SCF Function in the Cell Cycle

; The Cdc4 Phospho-Degron ; Multi-Site  
Phosphorylation and Ultrasensitivity ;  
The Sic1-Cdc4 Interaction: Theoretical Considerations  
; Discussion ; Prospects ; References  
The 26S Proteasome: A Supramolecular Assembly Designed for  
Controlled Proteolysis  
Introduction ; Structural Features of the 26S Proteasome  
; Conclusions ; References ; Mechanisms and  
Regulation of Ubiquitin-Mediated Limited Processing of the NF-kBa  
Precursor Protein p105  
; Summary  
Introduction

---

Sommario/riassunto

Ubiquitin-proteasome-dependent proteolysis is central to an incredible multitude of processes in all eukaryotes, including the cell cycle, cell growth and differentiation, embryogenesis, apoptosis, signal transduction, DNA repair, regulation of transcription and DNA replication, transmembrane transport, endocytosis, stress responses, antigen presentation and other aspects of the immune response, the functions of the nervous system including circadian rhythms, axon guidance and acquisition of memory. This book tells the story of the ubiquitin system as we currently know it: from the regulatio

---