

1. Record Nr.	UNINA990009947770403321
Autore	Della Putta, Paolo
Titolo	Sfida all'ultimo programma : livello elementare / Paolo Della Putta, Barbara Bettinelli, Marisa Marmo
Pubbl/distr/stampa	Milano ; Torino : Pearson, 2011
ISBN	978-88-6518-005-1
Descrizione fisica	80 p. : ill. ; 24 cm + 1 CD audio
Altri autori (Persone)	Bettinelli, Barbara Marmo, Marisa
Locazione	NAP12
Collocazione	H D 11
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910144556403321
Titolo	Autophagy in immunity and infection [[electronic resource]] : a novel immune effector / / edited by Vojo Deretic
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2006
ISBN	1-280-72356-4 9786610723560 3-527-60880-X 3-527-60854-0
Descrizione fisica	1 online resource (288 p.)
Altri autori (Persone)	DereticVojo
Disciplina	616.079
Soggetti	Phagocytosis 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	Autophagy in Immunity and Infection; Contents; Preface; Foreword; List of Contributors; Color Plates; Part I Introduction to Autophagy; 1 Overview of Autophagy; 1.1 Overview of Autophagy; 1.2 The Discovery of Autophagy; 1.3 Mechanistic Aspects of Autophagy; 1.3.1 Induction; 1.3.2 Cargo Selection and Packaging; 1.3.3 Vesicle Nucleation; 1.3.4 Vesicle Expansion and Completion; 1.3.5 Retrieval; 1.3.6 Targeting, Docking and Fusion of the Vesicle with the Lysosome/Vacuole; 1.3.7 Breakdown of the Vesicle and its Cargo; 1.4 Autophagy and Immunity; References 2 Cell Biology and Biochemistry of Autophagy2.1 Introduction; 2.2 Autophagic Pathway; 2.2.1 Formation of Autophagosomes; 2.2.2 Fusion of AV with Endocytic Pathways and Maturation; 2.2.3 Endosomes and Lysosomes; 2.3 Regulation of Mammalian Autophagy by Amino Acids and Hormones; 2.3.1 Amino Acids; 2.3.2 Hormones; 2.3.3 Longer-term Regulation; 2.3.4 The Nutrient Sensor Target of Rapamycin (TOR); 2.3.5 Upstream of TOR; 2.3.6 Downstream of TOR; 2.4 Methods to Measure Autophagy; 2.4.1 Microscopic Methods; 2.4.1.1 Electron Microscopy; 2.4.1.2 Light Microscopy; 2.4.2 Biochemical Methods 2.4.2.1 Formation and Induction2.4.2.2 Fusion; 2.4.2.3 Purification of

Autophagosomes from Rat Liver; 2.4.2.4 Inhibition of Autophagy; 2.4.2.5 Common Questions; 2.4.3 Summary and Outlook; References; 3 Transgenic Models of Autophagy; 3.1 Molecular Mechanism of Mammalian Autophagy; 3.1.1 Atg12 Conjugation System; 3.1.2 Atg8/Microtubule-associated Protein 1 Light Chain 3 (LC3) Conjugation System; 3.1.3 Class III Phosphatidylinositol-3-kinase (PI3K) Complex; 3.1.4 Atg1 Kinase Complex; 3.1.5 Other Factors; 3.2 Autophagy Indicator Mice: Green Fluorescent Protein (GFP)-LC3 Transgenic Mice 3.3 Mouse Models Deficient for Autophagy-related Genes 3.3.1 Atg5-deficient Mice; 3.3.2 Atg7-deficient Mice; 3.3.3 Beclin 1-deficient Mice; 3.4 Concluding Remarks; References; 4 Autophagy in Disease and Aging; 4.1 Introduction; 4.2 Autophagy in Neurodegenerative Disorders; 4.2.1 Protein Misfolding and Aggregation; 4.2.2 Parkinson's Disease; 4.2.3 Alzheimer's Disease; 4.2.4 Huntington's Disease; 4.2.5 Prion Diseases; 4.2.6 Niemann-Pick Type C; 4.3 Autophagy and Cancer; 4.3.1 Proteolysis of long-lived Proteins and Effect of Nutrient Deprivation in Cancer Cells 4.3.2 Autophagic Cell Death in Response to Anticancer Treatment 4.3.3 Molecular Mechanisms; 4.3.3.1 Beclin 1; 4.3.3.2 PI3K-Akt-mTOR Pathway; 4.3.4 Possible Therapeutic Attempts; 4.4 Myopathies; 4.4.1 Danon Disease; 4.4.2 XMEA; 4.4.3 Rimmed Vacuolar Myopathies; 4.4.4 Other Myopathies; 4.4.5 Cardiomyopathies and Myocardial Cell Death; 4.5 Liver Diseases; 4.6 Diabetes Mellitus; 4.7 Aging; 4.7.1 Changes in Protein Degradation with Age; 4.7.2 Age-related Changes in Autophagy; 4.7.3 Consequences of the Failure of Autophagy in Aging; 4.7.4 Slowing Down Aging? 4.8 Concluding Remarks and Pending Questions

Sommario/riassunto

This first book to cover this new topic at the interface of cell biology, immunology and infection biology offers a unique insight as to how the innate and possibly the adaptive immune system are shaped by cellular mechanisms. Following a comprehensive introduction to autophagy, the work features cellular mechanisms and medical implications, structured according to all major pathogens, while also covering emerging infectious diseases, such as tuberculosis. Edited by one of the authors of a groundbreaking paper on this topic.
