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Nota di contenuto	1. Overview of autophagy / M.A. Hayat -- 2. The role of autophagy in aging : molecular mechanisms / Maria Markaki, Athanasios Metaxakis and Nektarios Tavernarakis -- 3. The role of p62 in aggregopathies / Estelle Cormet-Boyaka [and three others] -- 4. Role of autophagy in the transition from monocyte to differentiation / Yan Zhang, Swati Choksi and Zhenggang Liu -- 5. Cdc48 AAA ATPase regulates protein dynamics and turnover in mitochondria / Masatoshi Esaki -- 6. Autophagy in plasma cells / Niccolo Pengo and Simone Cenci -- 7. Loss of PINK1 or Parkin function results in a progressive loff of mitochondrial function / Jan-Willem Taanman and Margherita Protasoni -- 8. Role of the transcription factor interferon regulatory factor-1 in regulating autophagy in lipopolysaccharide-stimulated macrophages / Lemeng Zhang and Allan Tsung -- 9. Mechanistic target of rapamycin : the alpha and omega of autophagy regulation / Olivia C. McKee-Muir and Ryan C. Russell -- 10. ER-phagy in starvation, ER stress, and quality control / Zhanna Lipatova and Nava Segev -- 11. Role of autophagy inhibition in tumor proliferative arrest / Jessie Yanxiang Guo -- 12. Survival at the brink : chromatin autophagy of tumor cells in response to genotoxic challenge / Jekaterina Erenpreisa [and four others] -- 13. Loss of autophagy in hypothalamic neurons may be involved in the pathogenesis of obesity / Yennifer Avalos [and three

others] -- 14. Defective autophagy in mesenteric fat tissue maintains inflammation in Crohn's disease / Raquel F. Leal and Francesca A. Ramos Silva -- 15. Autophagy regulates inflammatory responses in antigen-presenting cells : underlying mechanisms / James Harris, Tali Lang and Maria B. Sukkar -- 16. Autophagy accompanies inflammasome activation to moderate inflammation by eliminating active inflammasomes / Neel R. Nabar, Chong-Shan Shi and John H. Kehrl -- 17. Autophagy, inflammation, and breast cancer risk / Katherine L. Cook and Robert Clarke -- 18. AMBRA1-mediated regulation of C-MYC and its relevance to cancer / Valentina Cianfanelli and Francesco Cecconi -- 19. The delicate balance of autophagy in neurodegeneration / Melissa Nassif, Ute Woehlbier and Patricio A. Manque -- 20. Silibinin protects ultraviolet B-irradiated skin by balancing apoptosis and autophagy in epidermis and dermis / Takashi Ikejima and Toshihiko Hayashi -- 21. Role of autophagy activation in alleviating alcohol neurotoxicity / Jia Luo -- 22. Lipopolysaccharide-enhanced bactericidal activity is mediated by induction of the autophagosomal process / Marc Y. Fink [and three others] -- 23. Role of autophagy in liver regeneration / Takeo Toshima [and seven others] -- 24. A dual role of a soluble N-ethylmaleimide sensitive factor-attachment protein alpha ([alpha]SNAP) in the regulation of autophagy / Andrei I. Ivanov -- 25. Tumor necrosis factor-related apoptosis-inducing ligand induces autophagic protein cleavage in melanoma cells / Min You [and six others].

Sommario/riassunto

This book aids in understanding the importance and necessity of the role of autophagy in health and disease, especially in the studies of cancer, aging, neurodegeneration, immunology, and infectious diseases. It acts as a guide to both cellular processes and their potentially important connections.
