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Titolo	Autophagy in Health and Disease : Potential Therapeutic Approaches // edited by Kursad Turksen
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ISBN	3-319-98146-3
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Descrizione fisica	1 online resource (182 pages)
Collana	Stem Cell Biology and Regenerative Medicine, , 2196-8985
Disciplina	571.936
Soggetti	Cell cycle Cell physiology Pharmaceutical technology Metabolism - Disorders Cell Cycle Analysis Cell Physiology Pharmaceutical Sciences/Technology Metabolic Diseases
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Autophagy and Stem cells -- Fine-Tuning the Stem Cell Fate by Autophagy -- Role of Autophagy in Aging of Hematopoietic Stem Cells and Their Niche: Relevance in Clinical Transplantations and Regenerative Medicine -- Forkhead box O (FoxO) Transcription Factors in Autophagy, Metabolic Health, and Tissue Homeostasis -- The Role of mTOR in Osteoclasts -- Apoptotic Cell Clearance in Gut Tissue-Role of Intestinal Regeneration -- Autophagic Regulation of Cardiomyocyte Survival and Heart Regeneration -- The Role of Autophagy in Mesenchymal Stem Cell-Based Suppression of Immune Response -- Emerging Connections: Presynaptic Autophagy in Brain Aging and Neurodegenerative Diseases -- Virus and Autophagy: Enemies or Allies -- Cancer Stem Cells and Autophagy: Present Knowledge and Future Perspectives.
Sommario/riassunto	This timely volume explores the impact of autophagy in various human diseases, emphasizing the cell biological aspects and focusing on

therapeutic approaches to these diseases. The chapters cover autophagy and its potential applications on diseases ranging from obesity, osteoarthritis, pulmonary fibrosis, and inflammation, through ALS, Parkinson's, retinal degeneration, breast cancer, alcoholic liver disease and more. The final chapters round out the book with a discussion of autophagy in drug discovery and 'bench to bedside'. Chapters are contributed by leading authorities and describe the general concepts of autophagy in health and disease, marrying cell biology and pharmacology and covering: studies derived from preclinical experiments, manufacturing considerations, and regulatory requirements pertaining to drug discovery and manufacturing and production. This volume will be useful for basic scientists as well as already practicing clinicians and advanced graduate students.
