



# **Autophagy: Cancer, Other Pathologies, Inflammation, Immunity, Infection, and Aging: Volume 4 - Mitophagy**

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# Autophagy: Cancer, Other Pathologies, Inflammation, Immunity, Infection, and Aging: Volume 4 - Mitophagy

## Autophagy: Cancer, Other Pathologies, Inflammation, Immunity, Infection, and Aging: Volume 4 - Mitophagy

*Autophagy: Cancer, Other Pathologies, Inflammation, Immunity, Infection and Aging, Volume 4 - Mitophagy* presents detailed information on the role of mitophagy, the selective autophagy of mitochondria, in health and disease, by delivering an in-depth treatment of the molecular mechanisms involved in mitophagy initiation and execution, as well as the role of mitophagy in Parkinson's Disease, cardiac aging, and skeletal muscle atrophy. The most current understanding of the proteins and pathways involved in mitophagy are covered, with specific attention to Nix and Bnip3, PINK1/Parkin, Atg32, and FUNDC1. The role of mitophagy in cancer, neurodegeneration, aging, infection, and inflammation is also discussed providing essential insights into the pathogenesis of a variety of mitochondria dysfunction-related diseases.

This book is an asset to newcomers as a concise overview of the current knowledge on mitophagy, while serving as an excellent update reference for more experienced scientists working on other aspects of autophagy. From these well-developed foundations, researchers, translational scientists, and practitioners may work to better implement more effective therapies against some of the most devastating human diseases.

### Volumes in the Series

**Volume 1: Molecular Mechanisms.** Elucidates autophagy's association with numerous biological processes, including cellular development and differentiation, cancer, immunity, infectious diseases, inflammation, maintenance of homeostasis, response to cellular stress, and degenerative diseases such as Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral sclerosis, and prion diseases. **Volume 2: Role in General Diseases.** Describes the various aspects of the complex process of autophagy in a myriad of devastating human diseases, expanding from a discussion of essential autophagic functions into the role of autophagy in proteins, pathogens, immunity, and general diseases. **Volume 3: Role in Specific Diseases.** Explores the role of autophagy in specific diseases and developments, including: Crohn's Disease, Gaucher Disease, Huntington's Disease, HCV infection, osteoarthritis, and liver injury, with a full section devoted to in-depth exploration of autophagy in tumor development and cancer, as well as the relationship between autophagy and apoptosis. **Volume 4: Mitophagy.** Presents detailed information on the role of mitophagy, the selective autophagy of mitochondria, in health and disease, by delivering an in-depth treatment of the molecular mechanisms involved in mitophagy initiation and execution, as well as the role of mitophagy in Parkinson Disease, cardiac aging, and skeletal muscle atrophy. **Volume 5: Role in Human Diseases.** Comprehensively describes the role of autophagy in human diseases, delivering coverage of the antitumor and protumor roles of autophagy; the therapeutic inhibition of autophagy in cancer; and the duality of autophagy's effects in various cardiovascular, metabolic, and neurodegenerative disorders. **Volume 6: Regulation of Autophagy and Selective Autophagy.** Provides coverage of the mechanisms of regulation of autophagy; intracellular pathogen use of the autophagy mechanism; the role of autophagy in host immunity; and selective autophagy. **Volume 7: Role of Autophagy in Therapeutic Applications.** Provides coverage of the latest developments in autophagosome biogenesis and regulation; the role of autophagy in protein quality control; the role of autophagy in apoptosis; autophagy in the cardiovascular system; and the relationships between autophagy and lifestyle. **Volume 8: Autophagy and Human Diseases.** Reviews recent advancements in the molecular mechanisms underlying a large number of genetic and epigenetic diseases and abnormalities, and introduces new, more effective therapeutic strategies, in the development of

targeted drugs and programmed cell death, providing information that will aid on preventing detrimental inflammation. **Volume 9: Necrosis and Inflammation in Human Diseases.** Emphasizes the role of Autophagy in necrosis and inflammation, explaining in detail the molecular mechanism(s) underlying the formation of autophagosomes, including the progression of Omegasomes to autophagosomes.

- Brings together a wide swathe of experts (oncologists, neurosurgeons, physicians, research scientists, and pathologists) in the field of autophagy to discuss cutting-edge developments in this rapidly-advancing field
- Discusses in detail myriad aspects of yeast mitophagy, including proteins involved, generation of reactive oxygen species (ROS), and various mechanisms of mitochondrial quality control
- Builds upon recent advances in genome-scale approaches and computational tools to discuss the advances in regulation of autophagy at the systems level
- Organized for readers into easy-to-access sections: general applications; molecular mechanisms; and role in disease

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