

Special Issue

Molecular Research on Autophagy, 2nd Edition

Message from the Guest Editor

By recycling cytoplasmic constituents, autophagy controls cellular bioenergetics and tissue remodeling. In addition, autophagy allows the selective elimination of misfolded proteins, protein aggregates, damaged organelles, intracellular pathogens, and lipid droplets. This pathway is called selective autophagy and has relevance in the cell response to diseases.

Independently of lysosomal degradation, the autophagic machinery can be involved in other processes, such as unconventional secretion including extracellular vesicles, the mechanism of which is related to vesicle trafficking processes such as phagocytosis, and the regulation of inflammatory signaling such as the formation and clearance of inflammasomes. An increasing number of new autophagy-related proteins are being characterized in certain physiological and pathological situations or in specific selective or secretory autophagic processes. Furthermore, post-transcriptional, as well as post translational, modifications of ATG molecules are emerging as regulatory mechanisms in the physiological and pathological roles of autophagy. In this Special Issue of IJMS, the focus will be on molecular research in autophagy.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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