

Molecular Mechanisms of Autophagy in Cancer

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This **Research Topic** will focus on recent advances on understanding multiple aspects of autophagy regulation in cancer and its role in tumorigenesis. For example, analysis of the mutational landscape of autophagy genes in cancers, transcriptional regulation of autophagy genes, methods to determine autophagic flux in cancer cells in vitro and in vivo, development of new markers for determining autophagic flux in human samples, understanding the metabolism and the molecular signaling pathways governing cancer development and their intersection with autophagy in cancer development and progression, development of new therapies. Subtopics to be covered may include, but are not limited to:

- Oncogenic signaling pathways regulating autophagy
- Structural biology
- Bioinformatic studies
- The role of the different types of autophagy in cancer (macroautophagy, microautophagy, CMA, selective autophagy)
- Understanding the biochemical reactions regulating autophagy in cancer
- New mouse models and techniques
- Metabolism
- Translational studies
- Development of new targeted therapies for cancer treatment
- Transcriptional regulation of autophagy

Specialty Section:
Molecular Medicine

Deadline:
1st July 2021: Abstract
22nd October 2021: Manuscripts

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