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Molecular Mechanisms and Biological Roles of Alternative Autophagy

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Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editor

Dear Colleagues,

Over the past two decades, studies on canonical autophagy have expanded from molecular mechanisms to human diseases. However, recent studies have revealed the existence of another type of autophagy mechanism, namely alternative autophagy or Golgi-membrane-associated degradation (GOMED). Alternative autophagy is different from canonical autophagy in terms of the molecules involved, membrane sources, and substrates degraded. Therefore, alternative autophagy is a different proteolysis mechanism from canonical autophagy, and importantly, it is shown to be involved in a wide variety of physiological events.

This Special Issue will focus on molecular mechanisms of alternative autophagy, how to monitor alternative autophagy, which molecules are degraded, the physiological roles, and related human diseases.

Prof. Dr. Shigeomi Shimizu
Guest Editor



mdpi.com/si/140233

Special Issue



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