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Autophagy in Tissue Injury and Homeostasis

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Message from the Guest Editor

Dear Colleagues,

Autophagy (“auto-digestion”), a lysosome-dependent process, degrades and turnovers damaged or senescent organelles and proteins. Autophagy is a highly-regulated process, which impacts several vital cellular responses, including inflammation, cell death, energy metabolism and organelles (mitochondria and others) homeostasis. Although the role of autophagy in the maintenance of tissue homeostasis is well documented, its role during tissue injury and regeneration is still emerging. In this Special Issue on “Autophagy in Tissue Injury and Homeostasis”, we focus on the roles of autophagy in systemic, specific tissue (organs and cells) injury or organ failure associated with sepsis, inflammation, metabolic disorder, toxic chemicals, ischemic-reperfusion hypoxic oxidative stress, tissue fibrosis, trauma, and nutrient starvation. The knowledge gained from the identification and characterization of new molecular mechanisms will shed lights on biomedical applications for tissue protection through modulation of autophagy.

Dr. Pei-Hui Lin
Guest Editor



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Special Issue



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