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Insights into Disease Mechanisms and Precision Treatment for Lysosomal Diseases

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editors

Dear scholars,

Lysosomal diseases are a group of disorders caused by lysosome functional deficiencies including loss of lysosomal enzyme activities and elevated lysosomal pH, which affect the degradation of biological macromolecules and cellular components. The accumulation of substrates in the lysosomes can result in impairment of autophagy, aberrant vesicle trafficking, dysregulation of signaling pathways, and abnormal calcium homeostasis, as well as mitochondrial dysfunction. The recent research focus has turned to the development of lysosomal probes as well as therapeutic strategies to modulate lysosomal function, including the use of small molecules, pharmacological chaperones, or nanoparticles.

This Special Issue aims to highlight the latest advances in novel therapeutic approaches for lysosomal diseases, new methods of detecting lysosome functions, and developments in methods or technologies to uncover disease mechanisms.

We invite authors to submit original articles and review articles regarding recent findings on lysosomal disease mechanisms, diagnosis, and therapeutic strategies.

Dr. Jialiu Zeng
Dr. Chih Hung Lo
Guest Editors

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Special Issue

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