Special Issue

Ubiquitin Ligases in Health and Diseases

Message from the Guest Editor

Ubiquitin ligases, central players in the ubiquitin–proteasome system, orchestrate the precise regulation of protein stability, localization, and function through the covalent attachment of ubiquitin molecules. These enzymes are critical for maintaining cellular homeostasis, influencing processes such as cell cycle progression, DNA repair, immune response, and signal transduction. Dysregulation of ubiquitin ligases has been implicated in a myriad of diseases, including cancer, neurodegenerative disorders, and autoimmune conditions, highlighting their pivotal role in both health and disease. This Special Issue delves into the multifaceted roles of ubiquitin ligases, exploring their molecular mechanisms, physiological functions, and pathological implications. Contributions from leading researchers provide insights into the structural diversity of ubiquitin ligases, their substrate specificity, and the intricate regulatory networks they govern. Additionally, the Special Issue will highlight emerging therapeutic strategies targeting ubiquitin ligases, offering hope for the development of novel treatments for diseases driven by ubiquitin pathway dysregulation.

Guest Editor

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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