Special Issue

Ubiquitin System

Message from the Guest Editor

Since the discovery of the ubiquitin-proteasome system, it has been clear that ubiquitin-mediated protein degradation plays pivotal roles in a wide range of cellular processes, including signal transduction, cell growth and differentiation, stress response and immune regulation. More recently, it has become evident that ubiquitination has non-degradative functions in protein trafficking, DNA repair, transcriptional regulation and autophagy. The diverse functions of ubiquitination are controlled by various regulators (e.g., E3 ubiquitin ligases and deubiquitinating enzymes), different architectures of ubiquitin modifications, and ubiquitin recognition mechanisms. Dysfunction of the ubiquitin system often leads to human diseases, such as neurodegenerative diseases and cancer. However, the regulatory mechanism of ubiquitin-mediated cellular processes and the pathogenesis of ubiquitin-related diseases are not fully understood. In this Special Issue, we will welcome your contributions in the form of original research and review articles in all aspects of “Ubiquitin System”.

Guest Editor

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Deadline for manuscript submissions

closed (15 September 2017)

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed

mdpi.com/si/7357

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