

Special Issue

The Ubiquitin Code in Cellular Signaling and Homeostasis

Message from the Guest Editors

The ubiquitylation of a protein, as well as the synthesis of free polyubiquitin chains, is a process involving the action of three classes of enzymes: E1, E2, and E3. The E3 ligases, responsible for substrate specificity, are classified as RING, RBR, or HECT. Conversely, ubiquitin removal is catalyzed by deubiquitylating enzymes (DUBs). Ubiquitin conjugates adopt distinct conformational ensembles that can be recognized by effector proteins that recognize ubiquitin via specific ubiquitin-binding domains (UBDs). Thus, ubiquitin—either as monomer or as chains—can encode information that is deciphered by UBDs to trigger specific biological outcomes. This Special Issue aims to include contributions from scientists with a long-standing interest in ubiquitination as a central player in regulating cell signaling and homeostasis.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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