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Molecular Mechanism of Histone Modification and Gene Regulation

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Message from the Guest Editors

Histones undergo a variety of post-translational modifications (PTMs) including acetylation, methylation, phosphorylation, and ubiquitylation, among numerous others. These PTMs can impact gene expression by altering chromatin structure or recruiting reader proteins. Aberrant histone modifications are linked to the pathogenesis of diseases such as cancers as well as inflammatory and metabolic diseases. Thus, elucidating the molecular mechanisms by which histone modifications regulate gene expression is critical to understanding disease development.

This Special Issue invites original articles and reviews focusing on the broad topic of histone modifications and gene regulation related to cell differentiation, environmental stress, and human disease.



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