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Molecular Mechanism of Histone Modification and Gene Regulation

Guest Editors:

Dr. Kyunghwan Kim

Department of Biology,
Chungbuk National University,
Chungbuk 28644, Republic of
Korea

Dr. Kwang Won Jeong

College of Pharmacy, Gachon
University, Incheon, Korea

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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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Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

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Biology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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