



Molecular Research on Epigenetic Modifications

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Message from the Guest Editors

Epigenetics generally refers to heritable changes in gene expression and in the organization of chromatin that are not caused by alterations in the DNA sequence. The complexity of the mammalian genome is regulated by heritable epigenetic mechanisms, which are the basis of cell differentiation, development and homeostasis. These mechanisms help to determine cell fate and phenotype and must be stably maintained during cell division to preserve their identity, as well as to react to intrinsic signals during development or those originating from external environmental factors. Aberrations in epigenetic modifications are essential protagonists in the genesis and progression of various diseases, including cancer, assuming a predominant role in the understanding and treatment of these diseases.

The molecular basis of epigenetics is very complex and the discovery of new molecular targets for new and more powerful drugs has led to the search for small modulating molecules that can revert an increasing number of diseases.

We welcome researchers to contribute to the scientific advancement of this promising new discipline.





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Message from the Editor-in-Chief

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