

Special Issue

Targeting Epigenetic Network in Cancer

Message from the Guest Editors

As many sporadic cancer cases have been shown to be the result of a variety of modifiable lifestyle factors, including poor dietary habits, sedentary lifestyle, obesity, cigarette smoking, and exogenous hormones, a dysregulated epigenetic code seems to play an important role in sporadic cancer development. Three main epigenetic processes, including DNA methylation, histone modifications, and non-coding RNA mechanisms, are concerted in the epigenetic network to determine the transcriptional activity of certain genes.

This Special Issue plans to give an overview of the most recent advances in the field of medical epigenetics in cancer and its application as a potential source of cancer biomarkers and anti-cancer therapies. Potential topics include, but are not limited to: DNA methylation in cancer;

Histone modifications in cancer;

Non-coding RNA mechanisms in cancer;

RNA methylation in cancer;

Epigenetic cancer biomarkers;

Epigenetic anti-cancer therapy;

Epigenetic chemoprevention.

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