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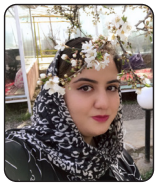
Abstract



Epigenetic Modifications in Gastric Cancer: Focus on DNA Methylation

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Abstract:

Gastric cancer is a complex heterogeneous disease which is the fourth prevalent malignancy worldwide. Although, several diagnosis and treatment are available for the gastric cancer patients, however the malignancy is still the third leading cause of cancer-related death in the world. Beside the genetic and environmental factors, epigenetic alterations are also involved in the emergence of gastric cancer. Epigenetics alterations are heritable changes which regulate gene expression without occurring changes in DNA sequence. Epigenetic changes mostly include DNA methylation, histon post-translational modifications, chromatin remodeling and non-coding RNAs. Among the mentioned epigenetic modifications, DNA methylation is a major epigenetic process that plays a key role in different stages of evolution and cancer development. In this review, we address all types of related epigenetic modifications in gastric cancer by focus on DNA methylation by reviewing the recent literatures. Understanding of molecular mechanisms of epigenetics alterations in gastric cancer development helps researchers to identify new epigenetic drugs against the malignancy.

Biography:

Vida Ebrahimi currently works at the Department of Pharmacognosy and Pharmaceutical Biotechnology, Shahid Beheshti University of Medical Sciences. Vida does research in Cell Biology, Bioinformatics and Biotechnology. Their most recent publication is 'The Effects of Genistein on Renal Oxidative Stress and Inflammation of Ovariectomized Rats'

Recent Publications:

1. Garlic (Allium sativum) improves anxiety- and depressive-related behaviors and brain oxidative stress in diabetic rats.
2. Identification and Study of Polycyclic Aromatic Hydrocarbons (PAHs) Degradation Potential by Some Bacterial Isolates from Caspian Sea and Study of Possibility to Discover Novel.
3. A48 BMJ Open 2017; 7 (0): A1–A78

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