

BPI Review Form 070520

Book Name:	New Visions in Medicine and Medical Science
Manuscript Number:	Ms_BP_3429G
Title of the Manuscript:	Effect of DNA Methylation and Environmental Factors on Drug Addiction
Type of the Article	Book Chapter

PART 1: Review Comments

	Reviewer's comment	Author's comment(If agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. Authors must write his/her feedback here)
Is the manuscript important for the scientific community? Please write a few sentences explaining your answer		
Is the title of the article suitable? Do you have any alternative Title in your mind?		
Is the abstract of the article comprehensive? If your answer is No, please provide suggestions		
Do you think the English quality of the article is suitable for scholarly communications? If your answer is No, please provide suggestions		
Please provide your comments regarding the appropriateness of different sections of the manuscript.	Additional comments are provided below: Drug addiction is a multifaceted disorder influenced by a combination of genetic and environmental factors. The intricate interplay of brain regions within the reward pathway, coupled with neuronal adaptations, genetic variations, and epigenetic interactions, leads to the transcriptional modulation of numerous genes, resulting in diverse addiction phenotypes of varying durations. Both addictive drug use and environmental stimuli induce epigenetic alterations, encompassing mechanisms such as DNA methylation and post-translational modifications of histones. Non-coding RNAs also contribute to these epigenetic changes. A recent review* discusses these above areas and underscores the importance of investigating epidrugs as both an alternative and complementary approach to treatment, given the constrained success of existing addiction treatment strategies. The review emphasizes the significance of exploring epidrugs as potential treatments for addiction, considering the limited success of current therapeutic strategies. Recent advancements in epigenome editing complexes, utilizing techniques like the CRISPR-Cas9 system and other targeted DNA cleavage methods, hold promise for targeted interventions.	
Do you think that the references in the manuscript are proper, recent and sufficient? If you have any suggestions, please write here.	*Kojiam, Arunkumar Singh, et al. "Drug addiction and treatment: An epigenetic perspective." Biomedicine & Pharmacotherapy 170 (2024): 115951.	

PART 2:

	Reviewer’s comment	Author’s comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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