Mini review

Recent Progress in Electrochemical Biosensors for Detection of DNA Methylation and Methyltransferase Activity

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DNA methylation is one of the most studied epigenetic modifications of DNA. The methylation at C-5 position of cytosine has been proved to be related to a wide range of biological phenomena. Therefore, it is very important to develop a simple, sensitive, accurate and reliable method for DNA methylation analysis. In this paper, the electrochemical biosensors for assays of DNA methylation and methyltransferase activity are reviewed.

Keywords: DNA methylation; electrochemical biosensors; methyl binding antibodies; methyl binding proteins; endonuclease

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