

Electrochemical DNA-sensors for determining biologically active low-molecular compounds

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Abstract

General tendencies of the progress in the development of electrochemical DNA sensors devoted to the determination of biologically active low-molecular compounds have been considered on the base on own authors investigations and literary data. The ways for the generation of analytical signal of DNA sensors are considered depending on the mechanism of DNA- analyte interaction. The application of DNA sensors for the determination of pharmaceuticals (anthracyclines,. phenothiazines, sulfonamides etc.) and environmental pollutants is described. The prospects of DNA sensor development are discussed. © 2008 MAIK Nauka.

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