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Development & Applications of Nanobiosensors for Biomedical Diagnosis

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Abstract:Nanotechnology plays an important role in the development of biosensors. The application of nanotechnology in life sciences, nanobiotechnology, is already having an impact on diagnostics and drug delivery. Now, researchers are starting to use nanotechnology in the field of drug discovery.

A sensitive monitoring of biological analytes, such as biomolecules (protein, lipid, DNA and RNA), and biological cells (blood cell, virus and bacteria), is essential to assess and avoid risks for human health. Nanobiosensors, analytical devices that combine a biologically sensitive element with a nanostructured transducer, are being widely used for molecular detection of biomarkers associated with diagnosis of disease and detection of infectious organisms. Nanostructures in biosensing have been provided. Considering all of these aspects, it can be stated that nanobiosensors offer the possibility of diagnostic tools with increased sensitivity, specificity, and reliability for medical applications.

Keywords:Nanotechnology, Nanobiosensors, Medical Diagnosis, Nanomaterial.

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