



biosensors



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Biosensing and Diagnosis

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Biosensing and diagnosis are multidisciplinary fields that integrate advanced technological principles with biological sciences to develop sensitive and specific analytical tools for detecting, measuring, and assessing various analytes, including biomolecules, chemicals, and environmental contaminants. They are crucial for healthcare, environmental monitoring, food safety, and other sectors where accurate and sensitive detection is essential. Moreover, the field of biosensing and diagnosis is rapidly evolving, driven by advancements in nanotechnology, materials science, informatics, and artificial intelligence. These innovations are enabling the development of more accurate, rapid, and cost-effective diagnostic tools that can be used in various settings, from clinical laboratories to point-of-care environments, and even for remote monitoring. Overall, biosensing and diagnosis play a significant role in advancing precision medicine, enhancing patient outcomes, and fostering a proactive and personalized approach to healthcare.



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