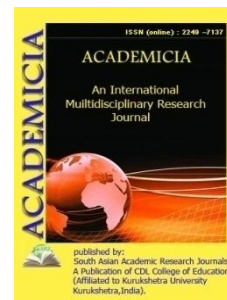


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AN OVERVIEW OF TYPICAL METHODS AND RESULTS FOR BIOSENSOR REGENERATION

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ABSTRACT

Biosensors are excellent low-cost, portable instruments for detecting infections, proteins, and other analytes quickly. The worldwide biosensor industry is now valued over ten billion dollars per year, and it is a rapidly growing area of multidisciplinary study that is being heralded as a possible revolution in consumer, healthcare, and industrial testing. However, the expense of biosensors is a major impediment to their broad use. Many systems have been validated in the laboratory, and biosensors for a variety of analytes have been proved at the concept level, but many have yet to establish a compelling business case for adoption. Though there is a downward pressure on prices due to the development of cheaper electrodes, circuits, and components, there is also an increasing trend toward the development of multi analyte biosensors that is pulling in the other direction. One method to decrease the cost of some items is to allow them to be reused, lowering the cost-per-test.

KEYWORDS: *Biosensors, Kinetic Energy, Potential Energy, Receptors, Regenerators.*

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