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Molecular sensors and molecular electronics are a major component of a recent research area known as bionanotechnology, which merges biology with nanotechnology. This new class of biosensors and bioelectronics has been a subject of intense research over the past decade and has found application in a wide variety of fields.

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A biosensor typically consists of a bio-receptor (enzyme/antibody/cell/nucleic acid/aptamer), transducer component (semi-conducting material/nanomaterial), and electronic system which includes a signal amplifier, processor & display. Transducers and electronics can be combined, e.g., in CMOS -based microsensor systems.

Biosensor - Wikipedia

Molecular electronic sensor chips integrate single molecules as electrical sensor elements on standard semiconductor chips, making electronic biosensor devices massively scalable. While electronic biosensors have seen gradual adoption in DNA sequencing and other areas of testing, there have been no major innovations in the basic sensor technology.

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