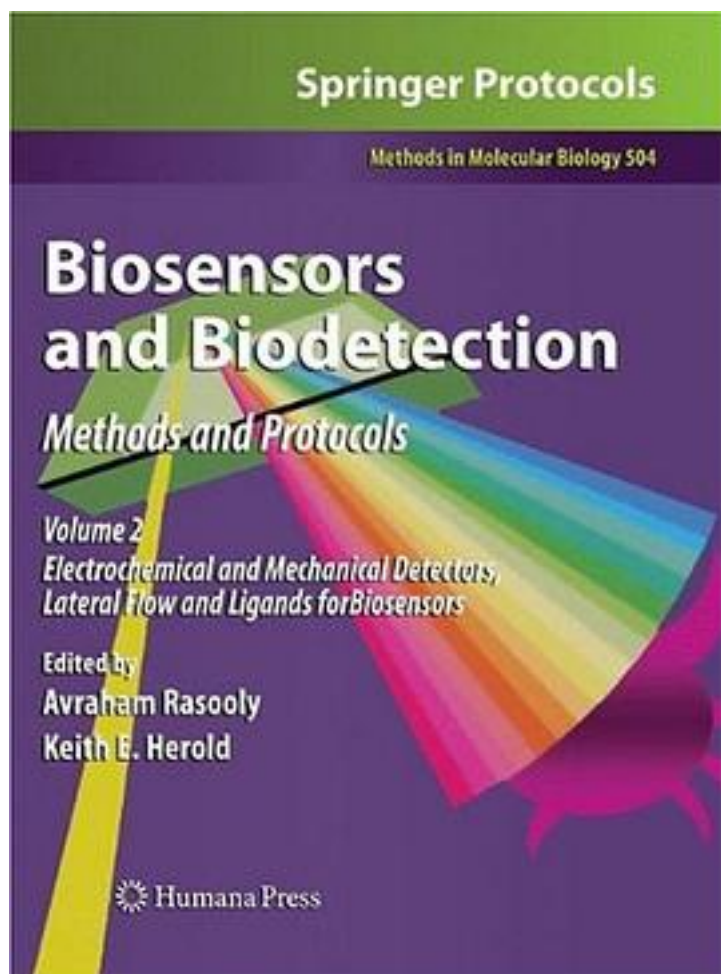


Biosensors and Biodetection



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Biosensors combine biological recognition elements and signal conversion elements into a biodetection system. They have been developed for a wide variety of

biodetection applications, offering the advantages of increased speed and ease of use compared to traditional detection methods. In *Biosensors and Biodetection: Methods and Protocols*, leading experts describe the major technologies in the field in extensive technical detail, allowing readers both to understand the technology and to construct similar devices. Volume 1: *Optical-Based Detectors* delves into direct and indirect optical detectors, including methods involving surface plasmon resonance, interferometric sensors, CCD based detectors, and spectrometers, among many other cutting-edge technologies. Written in the highly successful *Methods in Molecular Biology(t)* series format, chapters include brief introductions to the subjects, lists of the necessary materials, step-by-step, readily reproducible protocols, and Notes sections, which highlight tips on troubleshooting and avoiding known pitfalls. Comprehensive and up-to-date, *Biosensors and Biodetection: Methods and Protocols* is an ideal, user-friendly guide to this vital, versatile technology and a perfect tool for those who wish to further the field.

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