



## **Affinity Biosensors: Techniques and Protocols (Methods in Biotechnology)**

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The frequency of reports concerning the interface of biological recognition elements to signal transduction technologies has risen dramatically over the last decade. Because any one of a wide variety of biological recognition elements (e. g. , antibodies, receptors, DNA, microorganisms, or enzymes) can theoretically be interfaced with any one of a wide variety of signal transducers (e. g. , optical, electrochemical, thermal, or acoustic), the potential range of devices and techniques can be bewildering. The purpose of this volume and the previous volume in this series is to provide a basic reference and starting point for investigators in academics, industry, and government to begin or expand their biosensors research. This volume, *Methods in Biotechnology vol. 7: Affinity Biosensors: Techniques and Protocols*, describes a variety of classical and emerging transduction technologies that have been interfaced to bioaffinity elements (e. g. , antibodies and receptors). Some of the reasons for the expansion in the use of affinity-based biosensors include both advances in signal transduction technologies (e. g. , fiber optics, microelectronics, and microfabrication) and the availability of bioaffinity elements. More specifically, with respect to biological recognition elements, commercially and noncommercially produced antibodies directed toward a variety of analytes have become widely available. In addition, techniques for the purification and stabilization of receptors have also significantly improved. As a result of these recent advances in the field, biosensors research and development projects are being pursued by investigators from a wide range of disciplines.

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