



ADVANCES IN BIOSENSING
TECHNOLOGY FOR MEDICAL DIAGNOSIS

Editors:
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AUDIENCE:

Biomedical engineers, healthcare providers and policy makers who are interested in new technologies that can impact the delivery of diagnostic services in healthcare systems.

Frontiers in Nanobiotechnology – Volume 1

Advances in Biosensing Technology for Medical Diagnosis



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Biosensing technology is rapidly flourishing in recent years due to the advancement of bio-MEMS/NEMS. However, the booming development of biosensors has not been very well addressed to the unmet clinical needs. **Early diagnosis enables timely medical interventions, followed by a significant increase in survivorship.** *Advances in Biosensing Technology for Medical Diagnosis* initiates a headway into the realm of cutting-edge diagnostic tools which are expected to become routine clinical practice. This book aims to broaden the readers' horizon and guide them in tailoring different biosensing techniques for specific diagnostic procedures.

Key Features:

- 12 chapters cover several aspects of biosensing technologies including **I. working principles and microfabrications, II. updated biosensing developments, and III. clinical validations**
- highlights the state-of-the-art biosensing technology developed in all fields
- provides information about specific applications of novel biosensors used in clinical diagnosis
- provides step-by-step guidance of microfabrication for biosensors
- focuses on bridging the gap between the scientific and the clinical communities
- provides information about the diagnostic applications of biosensors for different diseases (including infectious diseases and neurodegenerative diseases).
- covers Information about unconventional nano/microfluidic biosensor systems
- features contributions from renowned experts in the field of biomedical engineering

About Editors:

The editor, Dr. Han-Sheng Chuang, is currently a full professor in the Department of Biomedical Engineering at National Cheng Kung University, Taiwan.

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