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This is the first book to detail bioanalytical technologies and methods that have been developed using aptamers in analytical, medical, environmental, and food science applications. After an introduction to aptamers, aptamer targets, and their general uses, it discusses different applications with particular attention to the comparison between aptamer-based biosensors and methods versus the corresponding immunosensors. Examples of aptamer-based diagnostic techniques include whole-cell protein profiling (proteomics) and medical diagnostics for the distinction of diseased versus healthy states. This is a core reference for analytical chemists, electrochemists, pharmaceutical/medicinal chemists, biotechnologists, and others.



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Editorial Review

Review

?This book provides descriptions of many applications of aptamers for biosensing, and for this reason, it is very useful and an interesting read.? (*JACS* , August 2009)

From the Back Cover

Explore technologies and methods using aptamers in different applications

This book details bioanalytical technologies and methods that have been developed using aptamers in analytical, medical, environmental, and food science applications. Because aptamers have some advantages over their rival antibodies, this is a rapidly emerging field with vast potential in varied disciplines. After an introduction to aptamers, aptamer targets, and their general uses, *Aptamers in Bioanalysis*:

- Discusses different applications, with particular attention to the comparison between aptamer-based biosensors and methods versus the corresponding immunosensors
- Includes examples of aptamer-based diagnostic techniques such as whole-cell protein profiling (proteomics) and medical diagnostics for the distinction of diseased versus healthy states
- Includes chapters written by leading experts in their fields

With an overview of proven bioanalytical technologies and methods and numerous references for further study, this is a core reference for analytical chemists, electrochemists, pharmaceutical/medicinal chemists, and biotechnologists.

About the Author

MARCO MASCINI, PhD, is a Full Professor of Analytical Chemistry in the Department of Chemistry at the University of Firenze, Italy. He has been one of the pioneers of biosensor technology. His research interests are related to electrochemical, piezoelectric, and optical biosensors. He pioneered several practical applications of these devices in industrial prototypes for use in bioanalysis, medicine, the environment, and food quality and safety. Some of these devices are commercialized today. Dr. Mascini is the author of more than 300 publications and has taken part in several European Commission projects and steering committees.

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