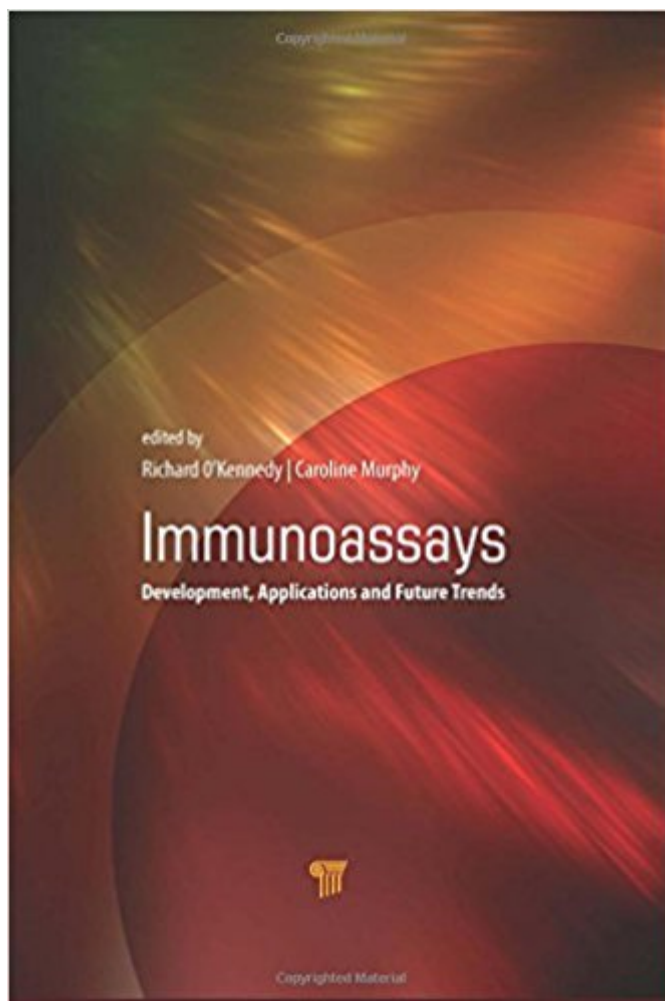


The book was found

# Immunoassays: Development, Applications And Future Trends



## Synopsis

The concept behind this book is to provide a detailed and practical overview of the development and use of immunoassays in many different areas. Immunoassays are analytical tests that utilise antibodies to measure the amount, activity or identity of an analyte. This book is designed to provide a critical and helpful insight into the subject and to give the user practical information that may be of assistance in assay format selection, antibody generation/selection and choice of appropriate detection strategies. It is comprised of 13 chapters written by highly experienced researchers in the fields of antibody-based research, immunoassay development, assay validation, diagnostics and microfluidics. Beginning with a comprehensive survey of antibodies, immunoassay formats and signalling systems, the book elucidates key topics related to the development of an ideal antibody-based sensor, focuses on the important topic of surface modification, explores key parameters in the immobilisation of antibodies onto solid surfaces, discusses the move to 'lab-on-a-chip'™-based devices and investigates the key parameters necessary for their development. Three of the chapters are dedicated to the areas of clinical diagnostics, infectious disease monitoring and food security, where immunoassay-based applications have become highly valuable tools. The future of immunoassays, including next-generation immunoassays, electrochemical-immunoassays and 'lab-on-a-chip'™-based systems, is also discussed. The book also covers the use of optical detection systems (with a focus on surface plasmon resonance) in immunoassays, provides a compilation of important, routinely used immunoassay protocols and addresses problems that may be encountered during assay development.

## Book Information

Hardcover: 470 pages

Publisher: Pan Stanford; 1 edition (June 15, 2017)

Language: English

ISBN-10: 9814669970

ISBN-13: 978-9814669979

Product Dimensions: 9.3 x 1 x 6.3 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #720,325 in Books (See Top 100 in Books) #125 in Books > Textbooks >

Medicine & Health Sciences > Medicine > Biotechnology #261 in Books > Engineering &

Transportation > Engineering > Bioengineering > Biomedical Engineering #544 in Books >

[Download to continue reading...](#)

Immunoassays: Development, Applications and Future Trends Trends in Hip-Hop Dance (Dance and Fitness Trends) (Dance & Fitness Trends) African Dance Trends (Dance and Fitness Trends) (Dance & Fitness Trends) Trends in Martial Arts (Dance and Fitness Trends) (Dance & Fitness Trends) Immunoassays: A Practical Approach (Practical Approach Series) Tribology and Dynamics of Engine and Powertrain: Fundamentals, Applications and Future Trends (Woodhead Publishing in Mechanical Engineering) Teens & Suicide (Gallup Youth Survey: Major Issues and Trends) (Gallup Youth Survey: Major Issues and Trends (Mason Crest)) Nursing Today: Transition and Trends, 8e (Nursing Today: Transition & Trends (Zerwekh)) Line Dances Around the World (Dance and Fitness Trends) (Dance & Fitness Trends) Coin World 2014 Guide to U.S. Coins: Prices & Value Trends (Coin World Guide to Us Coins, Prices & Value Trends) The Mystery of the Shemitah: The 3,000-Year-Old Mystery That Holds the Secret of America's Future, the World's Future, and Your Future! Unconventional Oil and Gas Resources: Exploitation and Development (Emerging Trends and Technologies in Petroleum Engineering) Customer Experience: Future Trends and Insights The Secrets of Economic Indicators: Hidden Clues to Future Economic Trends and Investment Opportunities (3rd Edition) End-Times Super Trends: A Political, Economic, and Cultural Forecast of the Prophetic Future Dietetics: Practice And Future Trends Materials Under Extreme Conditions: Recent Trends and Future Prospects Future Trends in Veterinary Public Health: Report of a WHO Study Group (WHO Technical Report Series) Reshaping Metropolitan America: Development Trends and Opportunities to 2030 (Metropolitan Planning + Design) Optimal Mean Reversion Trading: Mathematical Analysis and Practical Applications (Modern Trends in Financial Engineering)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)