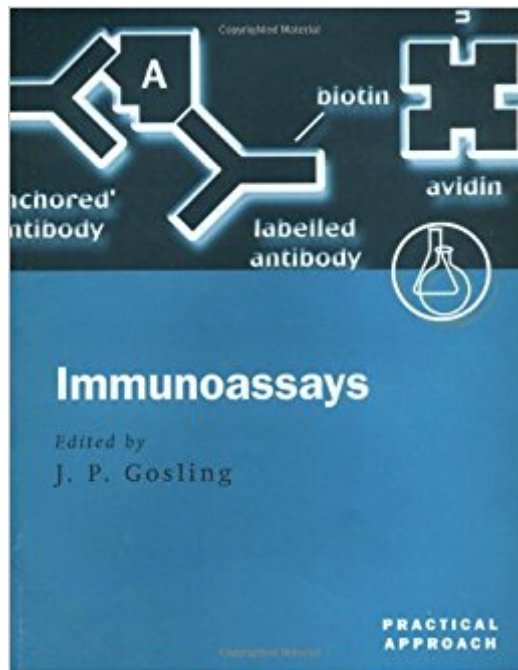




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Immunoassays: A Practical Approach (Practical Approach Series)



Synopsis

Immunoassays is the first practical volume designed to help any biologist develop an immunoassay of any common format for any suitable analyte. The basic principles are described and the choices of assay types and formats listed. Methods for raising and for characterizing antibodies, for preparing radioactive, enzymatic, fluorescent and other labels, are described. Solid-phase reagents, standards and immunogens are explained, with procedures for their preparation. But most components can be obtained commercially and comprehensive lists of suppliers are given. Approaches to combining the reagents and optimizing the required assay are described, including how to eliminate common interferences, and thorough validation procedures are given. Manual and computer methods for the calculation of concentrations are explained. Since only assays that are within control give valid results, a graded and comprehensive approach to internal and external quality assurance methods is detailed, including how to prepare control samples.

Book Information

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Customer Reviews

"It is indeed an excellent compilation of the basic steps in immunoassay design and development. Dr. Gosling has assembled an accomplished group of immunoassay experts who provide clear and uncomplicated accounts of the practical aspects of immunoassays. A useful feature of the book is the inclusion of easily identified, step-by-step protocols and tips throughout the text. This book will

be an invaluable practical resource for students and research workers trying to come to grips with the complexities of immunoassay technology." -- Larry J. Kricka, Clinical Chemistry, 47, No. 3, 2001 "There are now so many variations on the use of the core technology of the immunoassay, the antigen-antibody reaction, that when I opened this book I was a little sceptical as to whether James Gosling would be able to achieve the goals set for the Practical Approach series. ... [A]ny text that sets out to provide a series of protocols to help the experimental scientist to measure a specific analyte must ensure that there is guidance on method design, optimization, calibration and validation--that is, to keep the feet on the ground! The book achieves this objective and includes useful tips and contact names and, although the latter will go out of date, it adds value. ... This is a useful book for the analyst who needs to develop and use an immunoassay. It is also a useful text for the analyst who uses a 'commercial assay' and who has not had any part in its development, because it provides the background knowledge that will help with troubleshooting."--Trends in Biochemical Sciences

Jim Gosling is at National University of Ireland.

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