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Nature

2007

this book describes the continuing development of inexpensive portable flow cytometers through incorporation of microfluidic technologies and small optical components the underlying microfluidic theories essential for microflow cytometry is discussed in detail as well as advances that are representative of the current state of the art design and fabrication strategies for these innovative component technologies will be subsequently presented by numerous research groups leading the field integration of the components into functional prototype devices for analysis and manipulation of particles and cells are reviewed multiple currently available commercial systems are examined to highlight both strengths and areas for improvement

Genetic Engineering News

2006

in the united states hospitals annually report over 5 million cases of infectious disease related illnesses clinical microbiology laboratories in these hospitals are engaged in detecting and identifying the pathogenic microorganisms in clinical specimens collected from these patients with suspected infections clearly the timely and accurate detection identification of these microbial pathogens is critical for patient treatment decisions and outcomes for millions of patients each year despite an appreciation that the outcome of an infectious disease related illness is directly related to the time required to detect and identify a microbial pathogen clinical microbiology laboratories in the united states as well as worldwide have long been hampered by traditional culture based assays which may require prolonged incubation time for slowly growing microorganisms such as mycobacterium tuberculosis moreover traditional culture based assays often require multiple steps with additional time needed for discernment of species and or detection of antimicrobial resistance finally these traditional slow multistep culture based assays are labor intensive and required skilled clinical microbiologists at the bench over the past several decades advanced molecular techniques in diagnostic microbiology quietly have been revolutionizing the practice of clinical microbiology in the hospital setting indeed molecular diagnostic testing in general and nucleic acid based amplification methods in particular have been heralded as diagnostic tools for the new millennium there is no question that the development of rapid molecular techniques for nucleic acid amplification characterization combined with automation and user friendly software has greatly broadened the diagnostic capabilities of the clinical microbiology laboratory these technical advances in molecular microbiology over the first decade of the 21st century have profoundly influenced the physical structure of clinical microbiology laboratories as well as their staffing patterns workflow and turnaround time these molecular microbiology advances have also resulted in the need for a revised and updated second edition of advanced techniques in diagnostic microbiology this second edition again provides an updated and comprehensive description of the ongoing evolution of molecular methods for the diagnosis of infectious diseases in addition many new chapters have been added including a chapter on the clinical interpretation and relevance of advanced technique results the second edition like the first edition includes both a techniques section describing the latest molecular techniques and an applications section describing how these advanced molecular techniques are being used in the clinical setting finally the second edition like the first edition utilizes a diverse team of authors who have compiled chapters that provide the reader with comprehensive and useable information on advanced molecular microbiology

techniques

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2018-12-15

as with all of pharmaceutical production the regulatory environment for the production of therapeutics has been changing as a direct result of the us fda initiated quality by design qbd guidelines and corresponding activities of the international committee for harmonization ich given the rapid growth in the biopharmaceutical area and the complexity of the molecules the optimum use of which are still being developed there is a great need for flexible and proactive teams in order to satisfy the regulatory requirements during process development process analytical technologies pat applied in biopharmaceutical process development and manufacturing have received significant attention in recent years as an enabler to the qbd paradigm pat applied in biopharmaceutical process development and manufacturing covers technological advances in measurement sciences data acquisition monitoring and control technical leaders present real life case studies in areas including measuring and monitoring raw materials cell culture purification and cleaning and lyophilization processes via advanced pat they also explore how data are collected and analyzed using advanced analytical techniques such as multivariate data analysis monitoring and control in real time invaluable for experienced practitioners in pat in biopharmaceuticals this book is an excellent reference guide for regulatory officials and a vital training aid for students who need to learn the state of the art in this interdisciplinary and exciting area

The Microflow Cytometer

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a weekly record of scientific progress

Advanced Techniques in Diagnostic Microbiology

2012-09-13

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2008

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