

# Applied Biosystems 3130 and 3130xL DNA Analyzers

## Key Features

- 16 capillaries for the 3130xL and 4 capillaries for the 3130 system
- 24-hour unattended operation
- Easy instrument setup
- Polymer filling via the Automated Polymer Delivery System
- Detection cell heater for improved thermal control
- Automated sample injection from both 96- and 384-well microtiter plate formats
- 3130 POP-7™, POP-6™, and POP-4™ separation polymers
- Multiple dye detection
- One polymer, one array, multiple applications



## Components

The Applied Biosystems 3130 and 3130xL Genetic Analyzers consist of the following components:

- Capillary electrophoresis instrument
- Computer workstation for instrument control and data analysis
- Software for instrument control, data collection, and autoanalysis of sample files
- Available analysis software and algorithms:
  - Sequencing Analysis Software for basecalling
  - GeneMapper™/GeneMapper™ ID Software for microsatellite, SNP, AFLP, and LOH analysis
  - SeqScape™ Software for comparative sequencing, mutation detection, and detection of heterozygote insertions and deletions

## Capillary Arrays

The internally uncoated capillaries are supplied in preassembled sets of 4 or 16 arrays. Arrays are available in several lengths to provide support for multiple applications and run methodologies. They are specified for 100 runs on the 3130xL system, and 150 runs on the 3130 system. These arrays are also designed for use with industry-standard 96- and 384-well microtiter plates.

## Separations Matrix

The 3130 POP-7™, POP-6™, and POP-4™ polymers (Performance Optimized Polymers) can be used on the Applied Biosystems 3130 and 3130xL Genetic Analyzers as the separation matrix. Before each run, the capillaries are automatically replenished with fresh electro-osmotic flow (EOF) suppression polymer.

# Applied Biosystems 3130 Manual

**J. Thomas McClintock**



## **Applied Biosystems 3130 Manual:**

Manual of Commercial Methods in Clinical Microbiology ,2016-03-28 The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition reviews in detail the current state of the art in each of the disciplines of clinical microbiology and reviews the sensitivities specificities and predictive values and subsequently the effectiveness of commercially available methods both manual and automated This text allows the user to easily summarize the available methods in any particular field or for a specific pathogen for example what to use for an Influenza test a Legionella test or what instrument to use for identification or for an antibiotic susceptibility test The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition presents a wealth of relevant information to clinical pathologists directors and supervisors of clinical microbiology infectious disease physicians point of care laboratories professionals using industrial applications of diagnostic microbiology and other healthcare providers The content will allow professionals to analyze all commercially available methods to determine which works best in their particular laboratory hospital clinic or setting Updated to appeal to an international audience The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition is an invaluable reference to those in the health science and medical fields Modern Clinical Molecular Techniques Peter Hu,Madhuri Hegde,Patrick Alan Lennon,2012-05-11 This timely book covers the need to know clinical practices for all those involved in molecular laboratory science The field of molecular medicine is evolving at an astounding speed Propelled by the new insights and technologies advances are being made at an unprecedented rate With dual measure given to today s breakthroughs this book is a collection of the most current practices relevant to the clinical molecular laboratorian It begins with an introductory section on techniques and procedure It then presents four separate sections on infectious disease oncology pre post natal and identity testing with specific chapters clearly outlining clinical protocols used in daily practice Modern Clinical Molecular Techniques cuts to the heart of what is essential for the practicing molecular laboratory scientist It is an outstanding resource for those operating within or looking to set up a clinical molecular laboratory **WHO manual for HIV drug resistance testing using dried blood spot specimens** ,2020-08-31

**Advanced Cell Culture Technologies to Boost Cell-Based Therapies** Dominik Egger,Aldo R. Boccaccini,Diego Correa,Cornelia Kasper,Fergal J. O'Brien,2021-09-15 Dr Correa is the founder of Lumos Biomed Consulting and holds shares in Cryovida Stem Cell Bank Mexico Dr O'Brien holds patents related to regeneration technology and was a co founder of SurgaColl Technologies All other Topic Editors declare no competing interests with regard to the Research Topic subject

**Small RNAs as a Diverse Toolkit of Bacteria** Olga N. Ozoline,Klaus Neuhaus,2022-01-05 Molecular Detection of Human Bacterial Pathogens Dongyou Liu,2011-04-18 As more original molecular protocols and subsequent modifications are described in the literature it has become difficult for those not directly involved in the development of these protocols to know which are most appropriate to adopt for accurate identification of bacterial pathogens Molecular Detection of Human

Bacterial Pathogens addresses the identification and quantification of material present and collected at a crime scene are critical requirements in investigative analyses. Forensic analysts use a variety of tools and techniques to achieve this, many of which use light. Light is not always the forensic analyst's friend, however, as light can degrade samples and alter results. This book details the analysis of a range of molecular systems by light-based techniques relevant to forensic science as well as the negative effects of light in the degradation of forensic evidence such as the breakage of DNA linkages during DNA profiling. The introductory chapters explain how chemiluminescence and fluorescence can be used to visualise samples and the advantages and limitations of available technologies. They also discuss the limitations of our knowledge about how light could alter the physical nature of materials, for example by breaking DNA linkages during DNA profiling or by modifying molecular structures of polymers and illicit drugs. The book then explains how to detect, analyse and interpret evidence from materials such as illicit drugs, agents of bioterrorism and textiles using light-based techniques from microscopy to surface-enhanced Raman spectroscopy. Edited by active photobiological and forensic scientists, this book will be of interest to students and researchers in the fields of photochemistry, photobiology, toxicology and forensic science.

#### **Advanced Techniques in Diagnostic Microbiology**

Yi-Wei Tang, Charles W. Stratton, 2012-09-14. 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 and 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 require 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

**Forensic DNA Analysis** J. Thomas McClintock, 2008-02-19 In its short but active history the use of DNA typing has revolutionized criminal investigations It is almost inconceivable to bring a case to trial without positive identification through what is now our most accurate means Proficiency with the methodology principles and interpretation of DNA evidence is crucial for today s criminalist

**Prospects and Applications for Plant-Associated Microbes, A laboratory manual** Anna Maria Pirttilä, Seppo Sorvari, 2014-12-15 Plant associated microbes are ubiquitous organisms living in a range of interactions with their host Involving two organisms research and applications of plant microbes are challenging and often require specific skills This book guides the reader in the world of plant associated fungi giving both theoretical and practical insight on the potential of this interaction in biotechnology Detailed instructions and step by step protocols are described for isolation identification localization and community analysis of fungi studies on their bioactivity molecular plant fungal interactions and development of fungi as tools for biotechnology

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