

Automation Of Cytogenetics

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Automation Of Cytogenetics

Cytogenetics is a branch of genetics associated with the study of the structure and function of the cell, especially the chromosomes. It includes routine analysis of G-banded chromosomes, other cytogenetic banding techniques, as well as molecular cytogenetics such as fluorescent in situ hybridization (FISH) and comparative genomic hybridization. This presentation will focus on the automation process in a cytogenetic laboratory.

Automation in a Cytogenetic Laboratory : Leica Biosystems

This book complements the successful series of Workshops on the Au­tomation of Cytogenetics which have been sponsored for more than a decade by the European Community (EC). The contributed papers all arise from pre­sentations at one of the last three such Workshops, in Berlin (1986),...

Automation of Cytogenetics by Claes Lundsteen, Paperback ...

Collaborative cytogenetics automation research and development activities in Europe are now supported by the "Concerted Action in Automation of Cytogenetics" (CAACG), as one of the activities of the EC's COMAC-BME committee which supervises the coordination of research in biomedical engineering within the Medical Technology Development target (project no. 11.1.1/13).

Automation of Cytogenetics | Claes Lundsteen | Springer

Automation Of Cytogenetics An important field of automated cytogenetics is the detection of structural chromosome aberrations. While considerable progress has been made concern-ing the automated evaluation of dicentric chromosomes from homogeneously stained specimen (Gray and Langlois, 1986; Lorch and Stephan, 1986), the Automation of Cytogenetics

Automation Of Cytogenetics - HPD Collaborative

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The flow cytometry approach to automated chromosome analysis / J.A. Fantes and D.K. Green --Flow analysis of human chromosomes / A. Cooke --Chromosome aberration detection with hybridized DNA probes : digital image analysis and slit scan flow cytometry / C. Cremer [and others] --An automated system for the culturing and harvesting of human chromosome specimens / J. Vrolijk [and others] --Evaluation and development of a system for automated preparation of blood specimens for cytogenetic ...

Automation of cytogenetics (Book, 1989) [WorldCat.org]

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Automation of cytogenetics - PubMed Central (PMC)

The aim had always been to automate the cytogenetics process from the sample preparation step to the analysis, because we believe that automation is key to improving standardisation methods and to the accuracy and quality of analysis, increasing efficiency, reducing turnaround times, avoiding operator variability (a critical point in cytogenetic services) and ultimately strongly boosting the quality of our service for the benefit of the patients.

Automating the cytogenetics process

Automated Cytogenetics Systems. The importance of using Automated Cytogenetics Systems has been apparent for many years in large throughput laboratories, but in more recent times the competitive prices and previously unforeseen advantages of automation have resulted in smaller laboratories taking a look at the latest technological advances. If you have previously felt that you cannot justify the introduction of automated cytogenetic systems in your laboratory, the MultiPrep Genie for in situ ...

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Cytogenetics Solutions for consistent and cost-effective results Our liquid handling expertise enables reliable automation of high complexity molecular diagnostic techniques – such as cytogenetics (karyotyping and FISH) and molecular cytogenetics (aCGH/array comparative genomic hybridization) – for a range of applications, from metabolic diseases and cancers to reproductive genetics and transplantation medicine.

Cytogenetics - Tecan

Automation of spot counting in interphase cytogenetics using brightfield microscopy Cytometry. 1996 Jun 1;24(2):158-66. doi: 10.1002/(SICI)1097-0320(19960601)24:2<158::AID-CYTO8>3.0.CO;2-F. Authors H Vrolijk 1 ...

Automation of spot counting in interphase cytogenetics

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As described in Chapter 4, harvesting of mitotic cells for cytogenetic analysis involves exposing the cells to a series of reagents that separate the chromosomes, fix them, and prepare them for the banding and staining process. This traditionally involves pelleting the cells by centrifugation between steps, in order to aspirate one reagent and add another, a process that, by its very nature, is not amenable to any form of automation.

Robotic Harvesters - Cytogenetics - Flanders Health Blog

Automation Of Cytogenetics An important field of automated cytogenetics is the detection of structural chromosome aberrations. While considerable progress has been made concern-ing the automated evaluation of dicentric chromosomes from homogeneously stained specimen (Gray and Langlois, 1986; Lorch and Stephan, 1986), the Automation of Cytogenetics

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automation. Cytogenetics - ASI Automated Cytogenetics Systems. The importance of using Automated Cytogenetics Systems has been apparent for many years in large throughput laboratories, but in more recent times the competitive prices and previously unforeseen advantages of automation have resulted in smaller laboratories

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The software for automated imaging systems for cytogenetics consists of at least two parts: acquisition or capture, and the actual analysis. These can be two distinct steps or can be seamlessly integrated into one application. The acquisition step drives the camera in order to take a digital picture (capture an image).

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