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

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 re search in biomedical engineering within the Medical Technology Development target (project no. 11.1.1/13).

Automation of Cytogenetics by Claes Lundsteen, Paperback ...

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Automation of cytogenetics - PubMed Central (PMC)
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 re search in biomedical engineering within the Medical Technology Development target (project no. 11.1.1/13).

Automation of Cytogenetics | Claes Lundsteen | Springer
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]
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

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Automation of cytogenetics | Project | FP2 | CORDIS ...
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

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

Cytogenetics is essentially a branch of genetics, but is also a part of cell biology/cytology (a subdivision of human anatomy), that is concerned with how the chromosomes relate to cell behaviour, particularly to their behaviour during mitosis and meiosis. Techniques used include karyotyping, analysis of G-banded chromosomes, other cytogenetic banding techniques, as well as molecular ...

Cytogenetics - Wikipedia

Future of cytogenetics. Advances now focus on molecular cytogenetics. This includes automated systems for counting the results of standard FISH and techniques for virtual karyotyping.

Cytogenetics - Scope, Techniques and Uses | medcaretips.com

Several independent methodologies were developed during the period 1965–78 (Mendelsohn, 1976) for automated karyotyping. A recent workshop on automated human cytogenetics held in Copenhagen abstracted the projects in progress in Europe (Granum and Jakobsen, 1978).

Automation in Cytogenetics | SpringerLink

Ongoing research and development on automated cytogenetics

procedures includes: an automated metaphase harvester, automated metaphase spreader, high-throughput slide stainer, high-throughput metaphase finder, automated karyotyper, automated FISH pretreatment processor, automated FISH spot counting, and computerized sample tracking system.

Cancer Cytogenetics: Methodology Revisited

Automation of metaphase finding and imaging is one of most efficient ways for improving throughput and quality in classical cytogenetics. Several independent studies have shown that the use of automated imaging systems in cytogenetics not only increases case turnover rates but also improves analysis quality.

MetaSystems Solutions for Metaphase Imaging | MetaSystems

Automated imaging is a core competence of MetaSystems. Metafer 1, our globally renowned, fully automated slide scanning platform, is an extension of Neon.The Metafer 1 MSearch module can automatically locate metaphases and acquire high resolution images without user input. The images may be analyzed on any workstation running the Ikaros karyotyping software module.

Cytogenetics, Cancer Genetics and Cell Biology | MetaSystems

Cytogenetics, in cell biology, field that deals with chromosomes and their inheritance, particularly as applied to medical genetics. Chromosomes are microscopic structures found in cells, and malformations associated with them lead to numerous genetic diseases. Chromosomal analysis has steadily

Cytogenetics | biology | Britannica

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).

Instrumentation For Fish - Cytogenetics - Flanders Health Blog

Cytogenetic Automation becomes reality in any modern Cytogenetic laboratory demanding reduce hands-on time and increased productivity. Harvested Chromosomes can be used for Karyotyping, FISH or other type of analysis.