

Automation Of Cytogenetics

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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.

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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](#)

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).

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

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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.

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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 ...

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Automation Of Cytogenetics - toefl.etg.edu.sv 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 of cytogenetics | Project |

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Robotic Harvesters Sat, 23 Feb 2019 | Cytogenetics 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.

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GGS employs trained cytogeneticists with experience in troubleshooting and optimising cytogenetics harvesting procedures; these procedures can then be deployed within the automated harvester as one of several protocol options.

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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.

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