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***Cytogenetics /
NeoGenomics
Automation of
metaphase finding
and imaging is one
of most efficient
ways for improving
throughput and
quality in classical***

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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.

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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

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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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***Cytogenetics -
Tecan***

***Consists of papers
from a series of
Workshops on the
Automation of
Cytogenetics, held
in Berlin 1986,
Cortona 1987, and
Langollen 1988,
sponsored by the
Commission of the
European***

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Communities.

Description:

**Automation of
cytogenetics -
PubMed Central
(PMC)
Automated
Cytogenetics
Systems. The
current shortage of
cytogenetic
technologist skill
sets allows a**

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***straight forward
business case to be
made for the
introduction of
automated
cytogenetic systems
in the bigger
laboratories, but it is
not always
recognised that
such systems can
also improve
consistency and
quality of results***

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and reduce the
costs...**

**Chromosome
Harvesting - ADS
BIOTEC
Collaborative
cytogenetics
automation research
and development
activities in Europe
are now supported
by the "Concerted
Action in**

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***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.***

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11.1.1/13).

***History and
evolution of
cytogenetics -
PubMed Central
(PMC)***

***The most widely
recognized use of
cytogenetics is the
study of inherited
disorders through
prenatal diagnosis
by amniocentesis***

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and chorionic villus sampling or postnatal diagnosis by peripheral blood studies. Cytogenetic technology is also used in the study of acquired chromosomal abnormalities present in various forms of cancer.

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**cytogenetics |
Project | FP2 |
CORDIS ...**

**Cytogenetics
Solutions for
consistent and cost-
effective results Our
liquid handling
expertise enables
reliable automation
of high complexity
molecular
diagnostic
techniques – such**

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***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***

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**transplantation
medicine.**

***Automation in a
Cytogenetic
Laboratory : Leica
Biosystems
Collaborative
cytogenetics
automation research
and development
activities in Europe
are now supported
by the "Concerted***

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***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***

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(project no.
11.1.1/13).

***MetaSystems
Solutions for
Metaphase Imaging /
MetaSystems
Efficient automated
cytogenetic analy
sis of thousands of
biodosimetry
samples requires
many computational
tasks to be***

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Cytogenetics

performed simultaneously. These tasks

***Automation of
Cytogenetics - Claes
Lundsteen, Jim
Piper ...***

***The software for
automated imaging
systems for
cytogenetics
consists of at least
two parts:***

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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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***Automation of
Cytogenetics -
ResearchGate
Cytogenetics is a
branch of genetics
that is concerned
with how the
chromosomes relate
to cell behaviour,
particularly to their
behaviour during
mitosis and meiosis.
Techniques used
include karyotyping,***

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analysis of G-banded chromosomes, other cytogenetic banding techniques, as well as molecular cytogenetics such as fluorescent in situ hybridization and comparative genomic hybridization.

Automated

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**Cytogenetics
Systems - Genial
Genetics
Automated
cytogenetic analysis
is a multidisciplinary
task which requires
input from many
different specialities
ranging from
cytogenetics,
biological
dosimetry, and
medicine to**

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**computer
engineering, pattern
recognition, image
processing and
physics.**

**Cytogenetics -
Wikipedia
ADS BIOTEC offers
the most advanced
and state-of-the-art
technology in
cytogenetics
automation. Capable**

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of processing any type of sample such as Blood, Bone Marrow or any cell suspension cultures for cytogenetic analysis.

Cytogenetic Automation becomes reality in any modern Cytogenetic laboratory demanding reduce

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***hands-on time and
increased
productivity.***

***Harvested
Chromosomes can
be used for
Karyotyping, FISH
or other type of
analysis.***

***Automating the
cytogenetics
process***

An important field of

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***automated
cytogenetics is the
detection of
structural
chromosome
aberrations. While
considerable
progress has been
made concern-***

***(PDF) Automated
Cytogenetic
Biodosimetry at
Population-Scale***

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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

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and acquire high resolution images without user input. The images may be analyzed on any workstation running the Ikaros karyotyping software module.

***Instrumentation For
Fish - Cytogenetics -
Flanders Health
Blog***

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The history of human cytogenetics has been punctuated by the introduction of new technology which on each occasion has led to the discovery of an increasing number of smaller chromosome aberrations associated with

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disease. Modern molecular methods are capable now of identifying chromosome aberrations at the level of the DNA sequence.

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***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***

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point in cytogenetic

***Cytogenetic
Technology | MD
Anderson Cancer
Center
Dr. McGill serves as
the Director of
Cytogenetics at
NeoGenomics
Laboratories at Fort
Myers, Florida. Dr.
Sun has held
positions at***

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***Integrated Oncology
Laboratories,
Genzyme Genetics,
and Impath. He
served as a
cytogenetics lab
director for 12 years.***

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Claes Lundsteen,
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