

Automation Of Cytogenetics

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the multidisciplinary field of automated chromosome analysis is covered in all its aspects by the 20 contributions from users and leading researchers in this book they include evaluations of complete image based chromosome analysis systems current research into new image analysis techniques the development of systems for chromosome aberrations scoring automatic specimen preparation and the use of flow systems for chromosome measurement and analysis the book draws on a sum of more than a decade of research into the automation of cytogenetics and thus provides an excellent overview of the subject the extensive bibliography will be found most useful by active researchers and newcomers to the field

though some at least of the goals of automation systems for analysis of clinical cytogenetic material seem either at hand like automatic metaphase finding or at least likely to be met in the near future like operator assisted semi automatic analysis of banded metaphase spreads important areas of cytogenetic analsis most importantly the determination of chromosomal aberration frequencies in populations of cells or in samples of cells from people exposed to environmental mutagens await practical methods of automation important as are the clinical diagnostic applications it is apparent that increasing concern over the clastogenic effects of the multitude of

potentially clastogenic chemical and physical agents to which human populations are being increasingly exposed and the resulting emergence of extensive cytogenetic testing protocols makes the development of automation not only economically feasible but almost mandatory the nature of the problems involved and acutal of possible approaches to their solution are discussed

this manual is a revision of technical reports series no 260 biological dosimetry chromosomal aberation analysis for dose assessment 1986 it provides the latest information on standardized conventional methods used for the cytogenetic assessment of doses incurred through ionizing radiation scoring dicentric chromosomes and on newly available proven techniques such as fluorescence in situ hybridization premature chromosomal condensation and micronucleus assays

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this book is an up to date compilation of chromosome findings on bone and soft tissue tumors the book indicates the specificity of these changes and their relation to distinct pathologic entities it also emphasizes the use of cytogenetic findings as part of the diagnostic approach for these tumors and as a guide for molecular biologists searching for the specific gene involved each chapter contains a comprehensive summary of the pathology of the tumors particularly those in which cytogenetic findings have been published this book will be valuable to pathologists oncologists and surgeons dealing with tumors of bone and soft tissue

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