



Diagnostic cytogenetics

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Wegner, Rolf-Dieter (1949-)

Springer, 1999

Electronic books Laboratory Manual

Monografía

In addition to the traditional cytogenetics still used as the basic methodology for everyday clinical diagnosis, new molecular cytogenetic techniques provide a useful basis for routine diagnosis. Fluorescence in situ hybridization (FISH) has become a standard technique, and comparative genomic hybridization (CGH), spectral karyotyping (SKY), and multi-color FISH have shown their potential for diagnostic purposes. Following a section on tissue culture, chromosome staining and basic information about karyotyping, nomenclature and quality standards, protocols of relevance for comprehensive cytogenetic diagnostics are presented

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Contenido: I Classical Cytogenetics -- 1 Tissue Culture -- 2 Chromosome Staining -- 3 Karyotyping and Data Interpretation -- 4 Documentation -- II Postnatal Diagnosis -- 5 Peripheral Blood -- 6 Establishment of Permanent Growing Lymphoblastoid Cell Lines -- 7 Solid Tissues -- 8 Cells from Urine Sample -- 9 Classical and Molecular Cytogenetics of Tumor Cells -- 10 Cytogenetics of Meiotic Cells -- III Prenatal Diagnosis -- 11 Prenatal Diagnosis -- An Introduction -- 12 Amniotic Fluid Cell Analysis -- 13 Chorionic Villi Sampling -- IV Special Applications -- 14 Diagnosis of Chromosomal Instability Syndromes -- 15 Flow Cytometric Testing for Syndromes with Chromosomal Instability, Aplastic Anemia and Related Hematological Disorders -- 16 Cell Fusion -- 17 Origin of Trisomies -- V Molecular Cytogenetics -- 18 Fluorescence in Situ Hybridization -- 19 Fluorescence in Situ Hybridization (FISH) Analysis in Human Sperm Cells -- 20 Microdissection and Reverse Chromosome Painting -- 21 Comparative genomic hybridisation (CGH) -- VI Techniques in Development -- 22 Fetal Cells in Maternal Blood -- 23 Spectral Karyotyping in Clinical and Tumor Cytogenetics -- 24 Chromosome Analysis by Multiplex-FISH (M-FISH)

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