

Molecular Biomethods Handbook

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Part A: Nucleic Acid Biomethods: The manipulation of nucleic acids: basic tools and techniques.- Restriction Enzymes.- Principles and Medical Applications of the Polymerase Chain Reaction.- Probe Design, Production, and Applications.- Southern Blotting as a Diagnostic Method.- Introduction to Capillary Electrophoresis of DNA.- Denaturing High-Performance Liquid Chromatography (DHPLC) for nucleic acid analysis.- Denaturing Gradient Gel Electrophoresis (DGGE).- Single Strand Conformation Polymorphism (SSCP) Analysis.- Randomly amplified polymorphic DNA (RAPD); a useful tool for genomic characterization of different organisms.- Quantification of mRNA using Real Time RT-PCR the SYBR solution.- Quantitative Analysis of DNA Sequences by PCR and Solid Phase Sequencing.- MAPH (Multiplex Amplifiable Probe Hybridization).- Gene Expression Profiling.- Comparative Genomic Hybridization in Clinical and Medical Research.- Subtractive Hybridization.- Fluorescence in situ Hybridization.- Quantitative Trait Locus Mapping to Identify Genes for Complex Traits in Mice.- cDNA Microarrays.- Mapping Techniques.- Single Nucleotide Polymorphisms Overview.-Bioinformatics Tools for Gene and Protein Sequence Analysis; Part B: Protein and Cell Methods.- Protein Electrophoresis.- Protein blotting.- Capillary electrophoresis of proteins.- Autoradiography and fluorography.- Mass spectrometry of proteins peptides.- Post-translational modifications.- Protein microarray technology.- Protein-protein interactions.- Glycoprotein analysis.- Solid Phase Peptide Synthesis.- Monoclonal antibodies.- Antibody Phage display.- Protein engineering.- Directed protein evolution.- Enzyme Linked Immunosorbent Assay.- Epitope mapping.- Quantum dots.- Ion exchange chromatography.- Size exclusion chromatography.- Hydrophobic interaction chromatography.- Affinity chromatography.- High Performance Liquid Chromatography (HPLC) of Proteins and Peptides.- Amino acid analysis.- Surface plasmon resonance.- Macromolecular Crystallography.- Microchip Devices for Bioanalysis.- Mammalian cell culture.- Plant tissue culture.- Stem cells and Regenerative Medicine.- Cryopreservation : Conservation of Bioresources at Ultra-Low Temperatures.- Magnetic resonance imaging (MRI).- Electron microscopy.- Confocal microscopy.- Laser microdissection.- Biomedical uses of Flow cytometry.- Immunomicroscopy.- In-situ hybridization.- High throughput screening. EAN/ISBN : 9781603273756

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