Record Nr. UNINA9910780115803321 Mutation detection [[electronic resource]]: a practical approach // **Titolo** edited by R.G.H. Cotton, E. Edkins, and S. Forrest Pubbl/distr/stampa Oxford:: New York.: IRL Press at Oxford University Press, 1998 **ISBN** 1-383-04935-1 0-19-156569-5 1-280-37548-5 9786610375486 0-585-48413-9 Descrizione fisica 1 online resource (263 p.) Collana Practical approach series;; 188 CottonRichard G. H Altri autori (Persone) EdkinsE (Edward) ForrestS (Sue) Disciplina 576.5/49 Soggetti Mutation (Biology) Molecular genetics Chromosome abnormalities Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Contents; List of Contributors; Abbreviations; Introduction; References; 1. Single-strand conformation polymorphism analysis; 1. Introduction; 2. PCR-SSCP using polyacrylamide slab gel; PCR Optimization and primer design; Pre-amplification and isolation by agarose gel electrophoresis; PCR using [[Sup(32)]P]deoxynucleotide triphosphate; Removal of 3' appendage; SSCP gel electrophoresis; Interpretation of autoradiogram; Re-amplification and direct sequencing; Gel matrices other than polyacrylamide; Restriction endonuclease fingerprinting and dideoxy fingerprinting 3. Fluorescent SSCP in an automated DNA sequencerPrimer design in post-PCR fluorescent labelling; Fluorescent labelling by 3' exchange reaction; SSCP in capillary electrophoresis (CE-SSCP); Data processing:

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Sommario/riassunto

Mutation detection is increasingly undertaken in a wide spectrum of research areas: in medicine it is fundamental in isolating disease genes and diagnbosis, and is especially important in cancer research; in biology, commercially important genes can be identified by the mutations they contain. But mutation detection is time-consuming and expensive. This volume offers the latest tried and tested protocols for a range of detection methods, from the labs of the leading researchers inthe field.