	UNINA9910815297603321
Titolo	Mutation detection : a practical approach / / edited by R.G.H. Cotton, E. Edkins and S. Forrest
Pubbl/distr/stampa	Oxford : , : IRL Press at Oxford University Press, , 2023
ISBN	1-383-04935-1 0-19-156569-5 1-280-37548-5 9786610375486 0-585-48413-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (263 p.)
Collana	Practical approach series Oxford scholarship online Practical approach series ; ; 188
Disciplina	576.5/49
Soggetti	Mutation (Biology) Molecular genetics Chromosome abnormalities
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Formato Livello bibliografico	Materiale a stampa Monografia
Formato Livello bibliografico Note generali	Materiale a stampa Monografia Previously issued in print: 1998.
Formato Livello bibliografico Note generali Nota di bibliografia	Materiale a stampa Monografia Previously issued in print: 1998. Includes bibliographical references.

1.

	Optimization of SSCP/HA detection; 5. Multiplexing; 6. Interpretation of results; 7. Applications; 8. Other methods; References 3. Comprehensive mutation detection with denaturing gradient gel electrophoresis1. Introduction; The scope of DGGE, its distinctive capabilities, and the nature of results; 2. Background; 3. Basic principle, the physical properties of DNA; 4. Overview of the procedures in searching for mutants; Defining segments for scrutiny; Sample preparation; Gradient and velocity separations; Features of the gel patterns; Discrimination of zygozygosity; Comments; 5. Use of the psoralen cross-link as a clamp; The psoralen protocol; 6. Computational tools; What is a meltmap?; Meltmap protocol Predicting electrophoretic separationsComputer operations for MUTRAV; 7. Other members of the DGGE family; Gel separations in a uniform, partially denaturing environment; Capillary electrophoresis; The thermal gradient; The temperature ramp; 2D length and gradient separations; 8. End notes; Acknowledgments; References; 4. Cleavage using RNase to detect mutations; 1. Introduction; 2. RNase protection assay for mutation detection; Evaluation of the sensitivity; Source material; PCR for RNase protection assay; RNA probe preparation; RNase protection by sequencing of the PCR productsOther modified methodologies for mutation detection; Acknowledgements; References; 5. Cleavage of mismatched bases using chemical reagents; 1. Introduction; 2. Basic procedures; Comments on the basic procedures; 3. Ultra fast chemical mismatch detection; Labelling; Solid phase; Comments; References; 6. Mutation detection using T4 endonuclease VII; 1. Introduction; 2. The biology of Endo VII; The role of Endo VII in vivo; Characterization of Endo VII; Action of Endo VII on heteroduplex DNA; 3. Use of Endo VII for mutation detection Enzyme mismatch cleavage
Sommario/riassunto	This volume offers the latest tried and tested protocols for a range of detection methods, from the labs of the leading researchers in the field.