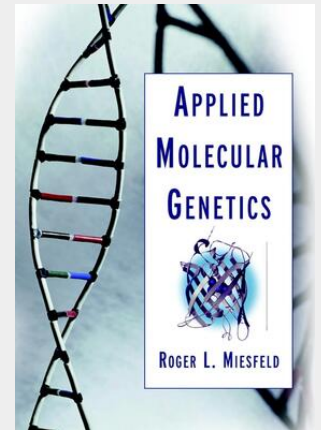


Applied Molecular Genetics

This text explains the key biochemical and cell biological principles behind some of today's most commonly used applications of molecular genetics, using clear terms and well-illustrated flow schemes. The book is divided into several sections and moves from basic to advanced topics while providing a concise overview of fundamental concepts in modern biotechnology. Each chapter concludes with a Laboratory Practicum describing a hypothetical research objective and the sequence of steps that are most often used to investigate biological questions using molecular genetic methods. In addition, the book provides informative summaries of the latest advances in molecular genetics, using attractive illustrations and a comprehensive reference list. This text also introduces the use of Internet resources through the World Wide Web as a powerful new tool in molecular genetic research. Seven appendices are included in the book, providing a convenient information resource for properties of nucleic acids, protein and restriction enzymes, a description of common E. coli genetic markers and gel electrophoresis parameters, as well as a list of useful Internet address sites.

Ein handlicher, leicht verständlich geschriebener Leitfaden über die wissenschaftlichen Grundlagen der gebräuchlichsten Anwendungen der Molekulargenetik in der biologischen und biomedizinischen Forschung. Dieses Buch schafft die Verbindung zwischen veröffentlichten Protokollen und Berichten zu Versuchsergebnissen, indem es erläutert, wie verschiedene molekulare Techniken kombiniert werden, um positive Forschungsergebnisse zu erzielen. Es ist für Studenten und Forscher gleichermaßen geeignet. Die fünf wichtigsten Gebiete der angewandten Molekulargenetik werden ausführlich diskutiert. Themenschwerpunkt und Stofforganisation machen dieses Werk zu einer echten Alternative: Es ist handlich, überschaubar und topaktuell. (yTIS;7/99)

"Well-written, up-to-date and very comprehensive. The writing is confident, clear and accessible throughout. Miesfeld has done a wonderful job of presenting contemporary molecular genetic strategies in an accessible and enjoyable style."-Paul A. Krieg, University of Texas. Applied Molecular Genetics explains the key biochemical and cell biological principles behind some of today's most commonly used applications of molecular genetics, using clear terms and well- illustrated flow schemes. The book is divided into several sections and moves from basic to advanced topics while providing a concise overview of fundamental concepts in modern biotechnology. Each chapter concludes with a Laboratory Practicum describing a hypothetical research objective and the sequence of steps that are most often used to investigate biological questions using molecular genetic methods. In addition, the book provides informative summaries of the latest advances in molecular genetics, using attractive illustrations and a comprehensive reference list. Representative topics include: * Genomic mapping using single nucleotide polymorphisms. * Creating cell-specific gene knockouts in transgenic mice. * Animal cloning methodologies based on whole nuclear transfer. * Pharmacogenetic applications of DNA microarray technology. This text introduces the use of Internet resources through the World Wide Web as a powerful new tool in molecular genetic research. Seven appendices are included in the book, providing a convenient resource for properties of nucleic acids, protein and restriction enzymes, a description of common E. coli genetic markers and gel electrophoresis parameters, as well as a list of useful Internet sites. A must-have guide for all instructors and students in the fields of modern biochemistry, cell biology, and genetics, Applied Molecular Genetics is an ideal reference for anyone needing a clear, concise source of up-to-date information on this rapidly changing field.



159,50 €

149,07 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780471156765

Medium: Buch

ISBN: 978-0-471-15676-5

Verlag: Wiley

Erscheinungstermin: 13.04.1999

Sprache(n): Englisch

Auflage: 1. Auflage 1999

Produktform: Kartoniert

Gewicht: 540 g

Seiten: 294

Format (B x H): 179 x 253 mm

