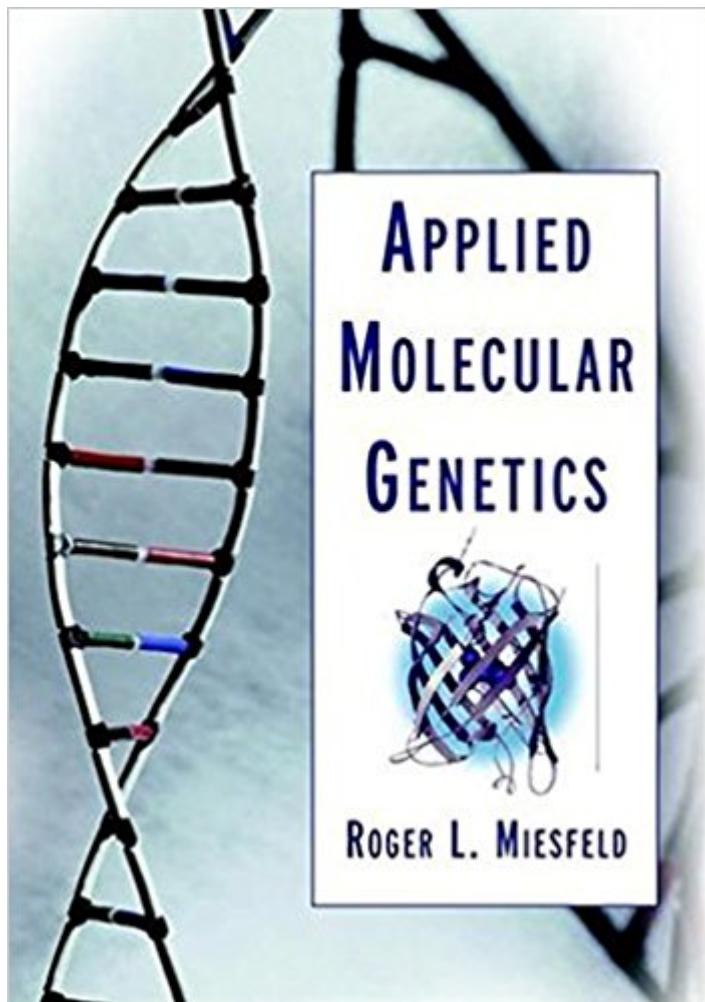


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Applied Molecular Genetics



Synopsis

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.

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"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.

The book is in good condition and it is nearly empty, just what I need!

Bought this book for an on-line science class I was taking. The book was really useful in explaining applied molecular genetics techniques.

Informative and helpful for 101 bioinformatic lab stuff :) i find the book easy to read and the illustrations are really helpful.

I just got the book and haven't had time to read yet. It is almost new without marks. It is a required textbook so maybe there is little point arguing the contents...

This book is very simple to understand molecular biology work in the lab. Actually, the real

advantage of this book is each chapter has an assignment (called "praticum" in this book) and that could be tried to learn DNA work in the lab. This book has included DNA works such as PCR, cloning, transfection (and transformation) and so on, except protein work such as protein purification, SDS-PAGE gel etc.. If any undergraduate student who would like to do independent research or undergrad research, this book would be helpful to figure out what kind of real techniques should be required based on your molecular biology background by your class.

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