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# Laboratory DNA Science



## Synopsis

This one-of-a-kind manual offers twenty-three foolproof labs designed to make molecular biology accessible and interesting to beginning biology students. Covering the basic techniques of gene manipulation and analysis, these "tried and true" experiments were tested and re-tested by the experienced author team to ensure absolute accuracy and ease of use.

## Book Information

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## Customer Reviews

Mark Bloom earned his Bachelor of Science in biology at Kent State University and his Ph.D. at Rensselaer Polytechnic Institute. Mark is the Assistant Director of the DNA Learning Center at Cold Spring Harbor Laboratory. Currently, Mark coordinates the DNA Science and Advanced Science Workshop Programs, and he also supervises Bio2000, a teaching laboratory. In addition to teaching, developing educational materials, and writing grant proposals, Mark is the principal investigator of training programs for precollege and college faculty and public opinion leaders (funded by the National Science Foundation, Department of Education, Department of Energy, and the Howard Hughes Medical Institute). Mark was the first to develop educational kits that feature polymerase chain reaction. He has seventeen publications to his credit and he was the editor for DNA Science: A First Course in Recombinant DNA Technology (Carolina Biological Supply Company and Cold Spring Harbor Laboratory Press). Greg Freyer holds two Bachelor of Science degrees; one is in biology from the University of Cincinnati, and the other is in chemistry from Miami University. He also has a Ph.D. in biochemistry from The University of Missouri. Currently, he is an

assistant professor at Columbia University. Greg has twelve publications and professional papers to his credit, including DNA Science: A First Course in Recombinant DNA Technology (Carolina Biological Supply Company and Cold Spring Harbor Laboratory Press). David Micklos holds a Bachelor of Science in biology and a Master of Arts in journalism with an emphasis in science communication, public relations, and research methods. He founded the Cold Spring Harbor Laboratory's precollege education programs in 1985 and the DNA Learning Center in 1987 – the nation's first science center solely devoted to public genetics education. He is responsible for the Center's programs and capital development as well as supervising the staff. Micklos developed the laboratory course DNA Science and played a key role in establishing mobile laboratories for nationwide teacher-training. He is also a principal investigator of training programs for precollege, college faculty, and public opinion leaders (funded by the National Science Foundation, Department of Education, Department of Energy, and the Howard Hughes Medical Institute).

At first I was surprised how old the book is. It is unlikely you will manage to get a new one, but it is not important. The book is important as an intro to molecular bio because it covers a few basic techniques and explains it in a fairly simple way. The important topics/experiments the book covers are: 1. Restriction Enzymes. 2. Transformation, ligation and basic cloning. 3. Southern Blot, Northern & Western Blots. What it does not cover: 1. PCR, RT-PCR etc. 2. Sequencing (beyond the scope of some labs/colleges). To get more info about more up to date molecular techniques you will need a different book and probably a text book. Good Luck!

Very outdated lab book. Our lab coordinator had to make numerous adjustments to the listed protocol to make our experiments work. Would not recommend; get something from the 21st century that's up-to-date.

Yes, it came on time and was very useful

I'm using this book for my molecular biology class. It's the last class I need for my biotechnology certificate! Stoked! Great book, prompt shipping time. THANKS!

The print quality of this book below standards. It is a poorly photo copied version of the original print. The letters in the paragraphs are faded and hard to read. In fact it looks like they took a picture of the text and not even a photo copy. The images like the wordings are faded. This product is not worth

100\$. Pay about 20\$ more and get the real product from a book store. I feel cheated and I am surprised that is selling such substandard books. It honestly looks like a counterfeit. Do not buy this product, you will feel disappointed and cheated. Its print quality is horrible and actually look like a cheap counterfeit foreign textbook. Defiantly not worth 100\$.

This is a decent and easy enough to follow introductory text to basic molecular biology techniques. It's used in my Biotech class, and I like how the protocols clearly give you every step as well as cite reference papers. However, this book would not be enough just on its own as a textbook. This should be treated as a lab manual. It provides a cursory introduction and background for each protocol listed, but the information is very brief. You'll need an actual molecular biology/biotechnology textbook to understand the principles if you are a beginning student.

Excellent introductory book for people who are interested in molecular biology. It is loaded with very detailed and easy to follow description of current molecular technicques. The book also contains a great deal of information on current theories in molecular biology, which are written even for the layman. I would also recommend this book for high school students who are interested in this field.

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