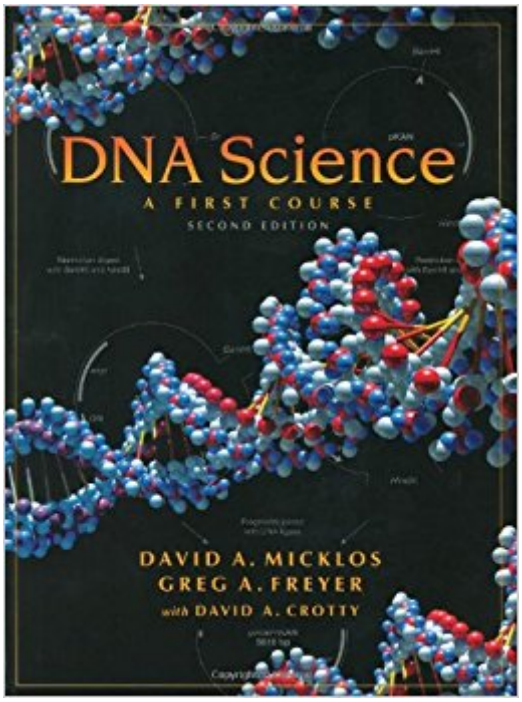
DNA Science: A First Course, Second Edition



Synopsis

This is the second edition of a highly successful textbook (over 50,000 copies sold) in which a highly illustrated, narrative text is combined with easyÃƒâ –toÃƒâ –use thoroughly reliable laboratory protocols. It contains a fully up to date collection of 12 rigorously tested and reliable lab experiments in molecular biology, developed at the internationally renowned Dolan DNA Learning Center of Cold Spring Harbor Laboratory, which culminate in the construction and cloning of a recombinant DNA molecule. Proven through more than 10 years of teaching at research and nonresearch colleges and universities, junior colleges, community colleges, and advanced biology programs in high school, this book has been successfully integrated into introductory biology, general biology, genetics, microbiology, cell biology, molecular genetics, and molecular biology courses. The first eight chapters have been completely revised, extensively rewritten, and updated. The new coverage extends to the completion of the draft sequence of the human genome and the enormous impact these and other sequence data are having on medicine, research, and our view of human evolution. All sections on the concepts and techniques of molecular biology have been updated to reflect the current state of laboratory research. The laboratory experiments cover basic techniques of gene isolation and analysis, honed by over 10 years of classroom use to be thoroughly reliable, even in the hands of teachers and students with no prior experience. Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare, while flow charts and icons make the protocols easy to follow. As in the first edition of this book, the laboratory course is completely supported by qualityÃƒâ –assured products from the Carolina Biological Supply Company, from bulk reagents, to useable reagent systems, to single use kits, thus satisfying a broad range of teaching applications.

Book Information

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Customer Reviews

"Named after a term invented by the legendary James Watson and written like a storybook, DNA Science: A First Course is one stop shopping for an excellent molecular biology guide and lab manual for beginners. It is concocted uniquely as one part test that introduces the reader to the scientific concepts and one part well designed and tested laboratories in a friendly format."
--Science Books & Films

This book goes into wonderful details about DNA and coupling to that are experiments to talk about how those discoveries were made. There are a lot of informations to which the reader must memorize to be a dedicated scientist. If the reader does not have a mature and analytical/reasoning skills, then all the informations will be gibberish. The reader also much have a basic understanding of chemistry and biology to understand the informations. If the reader is in high school and is taking Honor/AP biology then the informations will be clear cut. Some abbreviation are used and will not be told to what it stand for. Ex: the book used "bp" (it does not mean blood pressure), this refers to as "Base Pairs". The book did not provide "Base Pairs" so the reader must be able to reason it out base on the context and how bp was used. Over all comment on this book is IT'S AWESOME!!!!

This is the perfect textbook for a first course in recombinant DNA technology. It covers both theories and laboratory procedures very well.Students must have finshed high-school biology and chemistry before studying DNA Science. Students can also take DNA Science along with AP/IB biology.After completing this textbook, university students will find textbooks such as "Molecular Biology of the Gene" and "Molecular Cloning-A Laboratory Manual" very easy.

Book arrived fast and had no damage!

The book as delivered is in very good shape, it appears as tho it is brand new. Unfortunately it sports a pungent, air-freshener or perfume-y smell, not the usual paper-and-ink smell one is used to with books. I don't know where it picked up its odor, perhaps in the vendor's storage area? In any case I don't like it, and whereas the book alone merits 5-stars for the vendor, I have subtracted one

star as a way of saying "Phew!"

Book has included basic molecular biology chapters and so far so good. Will update the final review once I go through all the chapters.

I bought it as a teacher’s reference book, but it would also make a great text for an advanced high school class. As textbooks go, it is very readable. I found it thorough, but not overwhelming. I like the format--part 1 is textbook and part 2 is lab book.

I wanted a replacement for the DNA books loaned and not returned. The subject was not a good substitute. Easy to read in places; too much of a lab book. Good for a DNA student tech. Will not replace Watson and Crick for the double helix curious.

Good book.

Mathematics) A First Course in Stochastic Processes, Second Edition Latin Via Ovid: A First Course Second Edition Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) Design DNA - Logos: 300+ International Logos Deconstructed