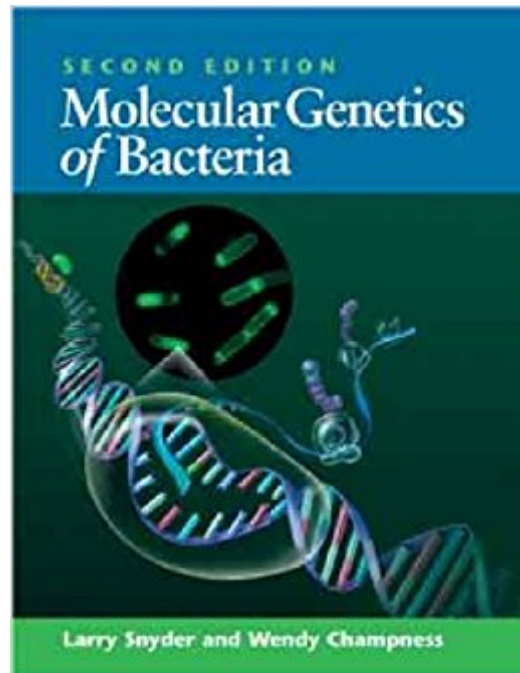




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Molecular Genetics Of Bacteria



Synopsis

"Molecular Genetics of Bacteria" fulfills the need for a comprehensive, primary textbook in bacterial genetics. It is ideally suited as a textbook for advanced undergraduate level courses and as background reading for graduate level courses. It is also recommended reading for scientists in all fields of biology, many of which depend upon the concepts and techniques covered in this book. While the book concentrates on the necessity of the bacterium *Escherichia coli*, about which most is known, it also uses examples from other bacteria as appropriate. The material in each chapter has been substantially updated to reflect exciting developments in the field of bacterial molecular genetics and its relationship to other fields, including eukaryotic cell biology and development. Recent years have been a period of consolidation in biology with many seemingly diverse areas being discovered to be different manifestations of the same phenomenon; these relationships have been emphasized. It has also been a period of major technical advances, including genomics and microarrays, which are also covered in the book. The second edition retains the same organization and style as the first edition, and the order of presentation of the topics has been largely unchanged as this order was popular with most instructors using the textbook. As before, each chapter contains a chapter summary, a set of discussion questions to encourage speculation, problems (with answers), and suggested readings, all of which are updated to reflect advances in the field. It also retains the use of boxes to present related material of interest to each topic without breaking the continuity of the text. The second edition will continue to serve as an important text for all courses in bacterial molecular genetics and as background for courses in molecular biology and biotechnology. New to the second edition: substantially updated to reflect developments in the field of bacterial molecular genetics; chapters begin with descriptive treatment of each topic and end with more technical molecular genetic experiments that led to the knowledge; and new chapter on molecular genetic applications in bacteria, including genetic studies of sporulation, bacterial development, and protein translocation.

Book Information

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Key Features and Benefits * Each chapter includes a concise end-of-chapter summary of the material covered * Incorporates text boxes that introduce readers to exciting developments and related topics of interest * Provides thought questions, problems, and suggested reading lists at the conclusion of each chapter that test student comprehension and encourage further research *

Written by only two authors, both of whom are specialists in the field and who have significant experience teaching the subject of bacterial molecular genetics * Integrates biochemical, genomic, and structural information that broadens the knowledge obtained from molecular genetics * Focuses on the most widely studied bacteria, *Escherichia coli* and *Bacillus subtilis*, but incorporates many examples from other bacteria of medical, ecological, and biotechnological importance --This text refers to an alternate Hardcover edition.

Authors: Larry Snyder, Michigan State University, USA Wendy Champness, Michigan State University, USA --This text refers to an alternate Hardcover edition.

This was an amazing steal! I bought this book on for around \$40 including shipping, while other peers in my class paid \$150+ from the campus bookstore. I could not have been more pleased. This book is a dry read and the chapters are in upwards of 60 pages long. However, I need it for my microbial genetics class so I had to have it. There are quite a few figures within the chapters, so that helps when reading it. The chapters are poorly organized. While reading, a term may be mentioned, but then it will say refer to section [...]. This could be remedied by an overhaul on the organization. This organizational flaw is the reason I rated it as 4 stars. The price point is 5+ stars all the way. There is not an e-text version of this textbook, but I have survived. This book is a super steal, so if you need it for a class get it from !

Textbook is not bad, covered ch. 1- 13 in a one semester upper lvl microbiology course. can be

learned with little to no biology background. Parts of the book are easy to read, while some parts are quite torturous. Overall it is a decent book, but hopefully your professor will point out the important parts and skip that parts that are too technical. explanations are generally clear, but may take multiple readings to understand. Not the best graphics. only two colors used in the entire book, black and lilac. questions were not assigned from the end of chapter questions so can't comment on that. book is due for an update, so hopefully a 4th ed. will be out in the near future. definitely one of the less costly textbooks, ~\$60 new, I bought a Like-New cond. one for ~45.

This is probably one of my favorite biology books on my three shelves of (bio) textbooks and notes. The information is indepth, but the authors make sure to give descent background and work their way up to topics. Unlike many biology books, they successfully divide their information up into appropriate, manageable topics so it flows relatively seamlessly. It is still information dense, hence the 'relatively'. I'm writing this review because I am currently writing a grant proposal for my lab job to start a genetics project. Although I've taken genetics, this book has been a great refresher and a reminder of the nuances that make genetics a precarious research topic. It covers very relevant information that is necessary to know before embarking on specific projects.

Arrived on-time. After purchase, was an okay book, great for molecular biologists - as the cover name of the book shows. Did not use much in Microbial Genetics course, but it can be very helpful if you need to look up terms and definitions, concepts, biological functions. Overall, good enough text book.

This book can't be used as a stand alone book for a microbiology course in graduate level but better as a sub for a portion of the class. An easy read and in depth it was but not broad enough in my opinion. It goes deep into the genetics and transposons than most other books that I have read. Other potential uses of transposons were also mentioned in this book. In general, I would recommend this book as a reference for graduate level classes.

This book is incredibly well written. It follows a logical progression throughout and is detailed, yet still clear. I am graduating with two degrees (Biochemistry and Microbiology) and I can say I've used this book more than any other on my shelf. I bought it for a bacterial physiology course, but have used it for many others when I needed a better explanation than the assigned readings or the professors supplied. I really appreciate that the language is straight forward and you don't have to

muscle your way through it!

There was pen all through the book. It was really distracting trying to read with someones scribbles in it. I would not consider this good condition. With how much writing the previous owner did i would consider this poor condition

Cool figures and depictions which clarify how some cellular systems function. Helpful index and online resources as well. Check this out if in the Molecular Biosciences and Biotechnology major or even anyone in the School of Life Sciences.

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