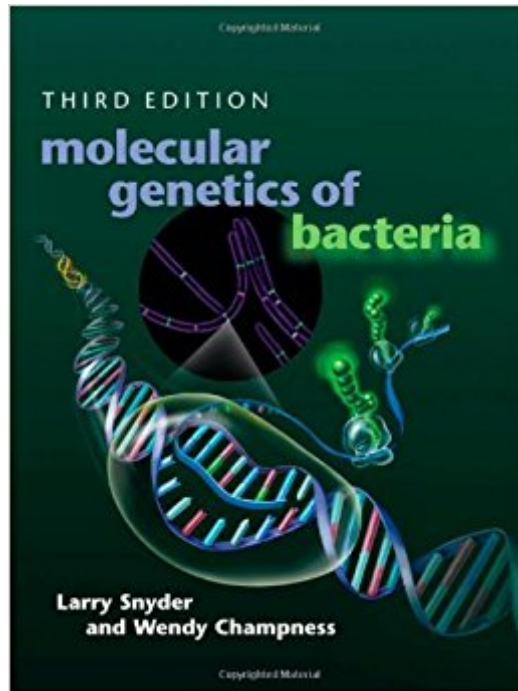




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Molecular Genetics Of Bacteria, Third Edition



Synopsis

This landmark volume provides the single most comprehensive and authoritative textbook on bacterial molecular genetics. Perfect for advanced undergraduate and graduate-level courses, the text presents the latest research on the subject in a clearly written and well-illustrated style. It provides descriptive background information, detailed experimental methods, examples of genetic analyses, and advanced material relevant to current applications of molecular genetics. While providing a deep understanding of bacterial molecular genetics, the material is integrated with biochemical, genomic, and structural information to broaden understanding. The approach centers on the most-studied bacteria, *Escherichia coli* and *Bacillus subtilis*. In addition, examples from other bacteria with medical, ecological, or biotechnological significance are covered throughout the text. The material in each chapter has been substantially revised and rewritten and reflects exciting developments in the field of bacterial molecular genetics and its relationship to other fields, including genetics, biotechnology, and bioengineering. *Molecular Genetics of Bacteria*, 3rd Edition is organized like the two previous editions. Each chapter contains a summary of main points, descriptions of significant experiments, a set of discussion questions and a problem set (with answers to both at the back of the book), and a list of suggested readings—all updated to reflect the most recent advances in the field. Additionally, text boxes present intriguing information on each topic without interrupting the continuity of the text. This third edition is invaluable to anyone working in the fields of microbiology, genetics, biochemistry, bioengineering, medicine, molecular biology, and biotechnology. It is also essential reading for scientists in all fields of biology, many of whom depend upon the concepts and techniques covered in this book.

New in the Third Edition*

- Features completely revised and updated material, incorporating the most recent advances in the field since publication of the second edition in 2002*
- Introduces over 100 brand-new illustrations*
- Offers a revised and expanded glossary containing approximately 1,000 entries

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

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Authors: Larry Snyder, Michigan State University, USA Wendy Champness, Michigan State University, USA

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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