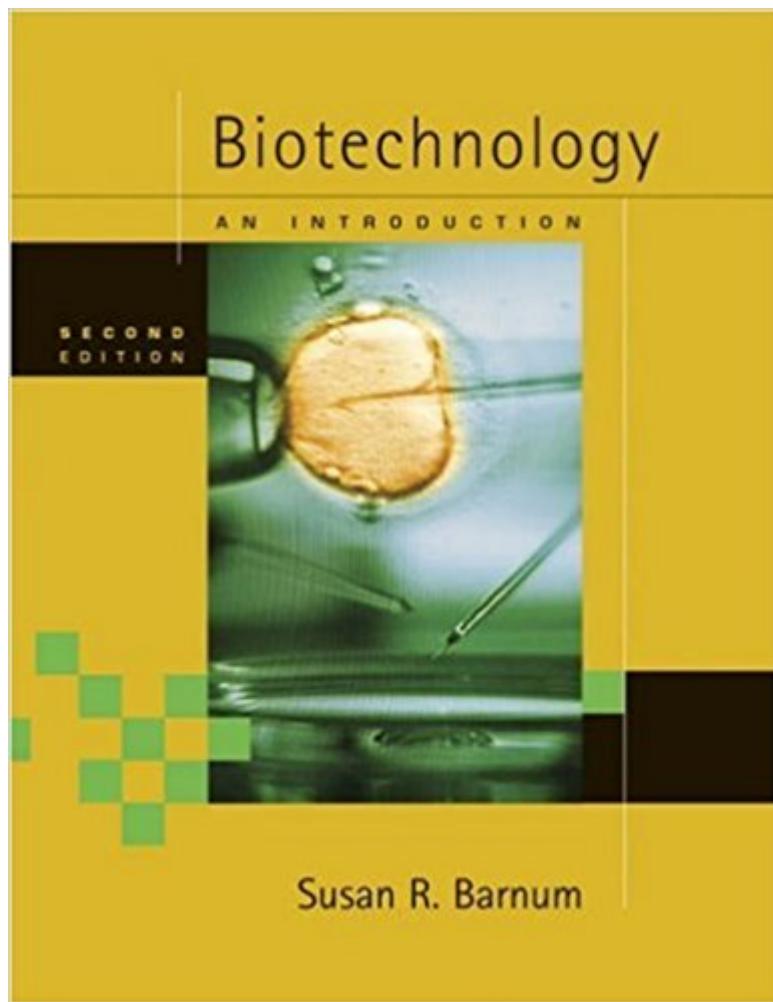


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Biotechnology: An Introduction (with InfoTrac)



Synopsis

Biotechnology instructors require currency, sound pedagogy and a brief objective introduction to a broad range of topics and technologies. Students need an accessible and clear presentation along with hot topics and real-world examples. Susan Barnum meets all these requirements and needs in this second edition of her enormously popular text, BIOTECHNOLOGY: AN INTRODUCTION, Second Edition. Barnum offers a broad view of biotechnology, integrating historical and modern topics. She then describes the processes and methods used to manipulate living organisms or the substances and products from these organisms for medical, agricultural, and industrial purposes. Using case studies and examples, the author rounds out discussions by detailing the technology and how it is applied, including discussions on the implications of biotechnology in such areas as gene therapy, medicine, agriculture, marine biology, and forensics. More complex and difficult-to-teach topics are given special coverage, by providing outlines, bulleted lists, and tables for simplifying and clarifying topics such as immunology, construction of recombinant DNA molecules, relevant lab techniques, monoclonal antibodies, and plant transformation/regeneration. Besides the addition of color, this new edition places more information in boxes to focus on the process of science, the accomplishments of researchers in the field, and real-world examples of biotechnology. In addition, Susan Barnum extends her already excellent objective coverage of the ethical and social implications of biotechnology by focusing on the most relevant topics in a sidebar in each chapter. Commercial, economical, and medical effects of current biotechnology practices are also made clearer and more relevant for students.

Book Information

Paperback: 336 pages

Publisher: Brooks Cole; 2 edition (March 9, 2004)

Language: English

ISBN-10: 0534492967

ISBN-13: 978-0534492960

Product Dimensions: 0.8 x 8.2 x 10.5 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.1 out of 5 stars 2 customer reviews

Best Sellers Rank: #534,461 in Books (See Top 100 in Books) #87 in Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology #172 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Microbiology #181 in Books >

Customer Reviews

Susan Barnum received her Ph.D. from Iowa State University and currently teaches in the Botany Department at Miami University in Ohio. Her research focuses on the evolution of cyanobacteria, the molecular evolution of nitrogen fixation genes, and the molecular response to stress.

Perfect condition, like-new. Delivered on time.

I was hoping for something a little more comprehensive, but it is an introduction, so...Otherwise, it's easy to read and has been somewhat helpful. It just doesn't give a lot of detail especially on biotech. techniques.

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