



# Biotechnology and Biopharmaceuticals: Transforming Proteins and Genes into Drugs

By Rodney J. Y. Ho, Milo Gibaldi

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*Biotechnology and Biopharmaceuticals: Transforming Proteins and Genes into Drugs* defines biotechnology from the perspective of pharmaceuticals. The first section focuses on the process of transforming a biologic macromolecule into a therapeutic agent, while the second section provides a brief overview of each class of macromolecule with respect to physiological role and clinical application. Additional detail is also provided in the second section for each FDA approved, recombinantly derived biopharmaceutical for each category of macromolecule. The final section looks to the future and the new advances that will enhance our ability to develop new macromolecules into effective biopharmaceuticals. This last section discusses various drug delivery strategies while also describing gene and cell therapy strategies.

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### **Editorial Review**

#### **Review**

"...a useful book for a...class in the pharmacology and pharmacokinetics of biotechnology-derived products, as well as a good introductory book for people new to the biotechnology industry." (*Pharmaceutical Research*, Vol. 20, No. 12, December 2003)

#### **Review**

"...faculty that teach in the pharmaceuticals curriculum will find the Ho and Gibaldi text of great value as course content is revised and new areas are added and expanded. The book provides important linkages between the science and therapeutics of biotechnology products that faculty will find useful in integrating the subject matter in health sciences and graduate program curricula." --Stuart Feldman, Ph.D., Biomedical and Health Sciences Institute and Department of Pharmaceutical and Biomedical Sciences, University of Georgia, Athens, Georgia

#### **From the Author**

"The authors of this book should be congratulated for making available to scientists, healthcare professionals, and students all of this information in a single volume. The chapters are written in a manner that is understandable to non-experts in the field. By utilizing this book as a source of new information to increase their breadth of knowledge, scientists currently in the industry will become more effective contributors to the drug discovery and development efforts of their companies." (from the Foreword by Ronald T. Borchardt, University of Kansas)

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