

Cytochrome P450: Structure, Mechanism, and Biochemistry

Third Edition

Edited by Paul R. Ortiz de Montellano

INTRODUCTION AND PURPOSE

This book, "Cytochrome P450: Structure, Mechanism, and Biochemistry, Third Edition," serves as a comprehensive review summarizing the current state of research in the field of drug metabolism. It places a strong emphasis on the structure, mechanism, biochemistry, and regulation of Cytochrome P450 enzymes. The coverage is interdisciplinary, spanning from the bioinorganic chemistry of cytochrome P450 to its relevance in human medicine. Each chapter offers an in-depth review of a specific topic, with a particular focus on advancements made over the last decade.

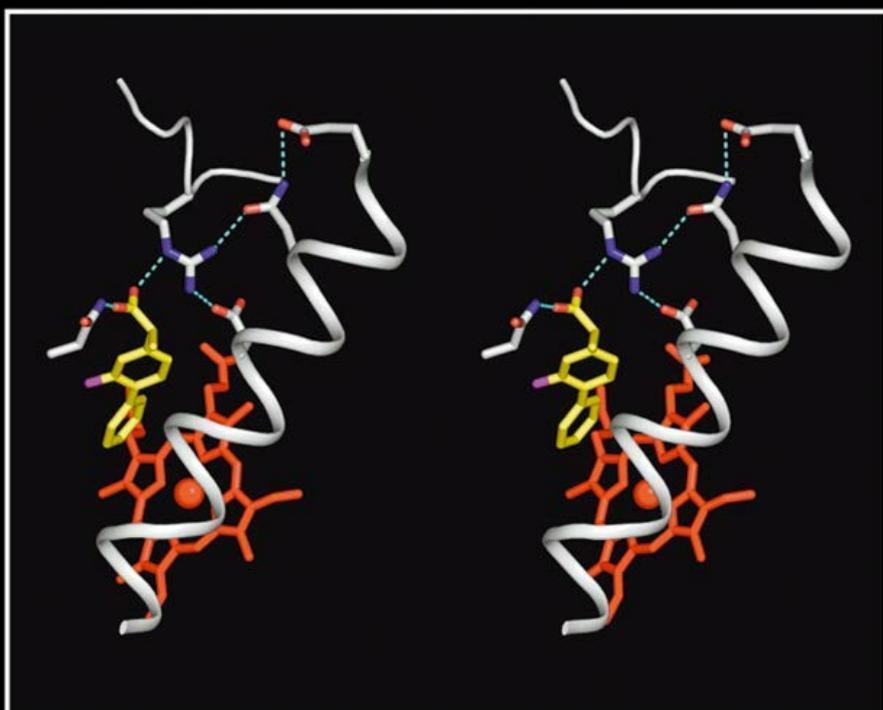
The volume is designed to be of considerable interest to a broad array of P450 researchers, providing updated knowledge on central issues such as mechanisms of catalysis, oxygen activation and inhibition, gene regulation, and P450 structure. It also includes discussions on bacterial and eukaryotic P450s, the complete battery of human P450s, and general overviews of plant and microbial P450 diversity.

PRODUCT OVERVIEW

CYTOCHROME P450

Structure, Mechanism, and Biochemistry

THIRD EDITION



Edited by Paul R. Ortiz de Montellano

This image displays the front cover of the book 'Cytochrome P450: Structure, Mechanism, and Biochemistry, Third Edition'. The title 'CYTOCHROME P450' is prominently featured in red, with 'Structure, Mechanism, and Biochemistry' and 'THIRD EDITION' below it. The lower half of the cover shows two molecular diagrams, likely representing cytochrome P450 structures. The editor's name, Paul R. Ortiz de Montellano, is at the bottom.

INTENDED AUDIENCE AND USAGE

This book is primarily intended for scientists and researchers in fields such as biochemistry, chemistry, biophysics, molecular biology, pharmacology, and toxicology. It is an invaluable resource for anyone studying Cytochrome P450 enzymes and their roles in drug metabolism, catalysis, and biological systems.

To effectively utilize this manual, readers should approach it as a reference text. Each chapter is designed to provide an in-depth review of a specific topic, allowing for focused study on particular aspects of Cytochrome P450. The interdisciplinary nature of the content means that readers from various scientific backgrounds will find relevant information.

NAVIGATING THE CONTENT

The book is structured into distinct chapters, each authored by experts in their respective fields. To navigate the content efficiently:

- Review the chapter titles to identify areas of interest.
- Utilize the index (if available in the physical copy) to locate specific terms, concepts, or enzymes.
- Refer to the extensive bibliographies within each chapter for further reading and original research papers.
- The book's emphasis on recent advancements means that the most current research findings are integrated throughout the text.

CARE AND PRESERVATION

To ensure the longevity and readability of your copy of "Cytochrome P450: Structure, Mechanism, and Biochemistry," please follow these care guidelines:

- Store the book in a cool, dry place away from direct sunlight to prevent fading and warping.
- Avoid exposing the book to extreme temperatures or humidity, which can damage the binding and pages.
- Handle pages carefully to prevent tearing or creasing.
- Do not write or highlight directly in the book if you intend to preserve its condition for future reference or resale.
- Keep the book away from liquids and food to prevent stains and damage.

ACCESSING INFORMATION AND FURTHER RESOURCES

If you encounter difficulty locating specific information or require further academic clarification, consider the following approaches:

- Consult the comprehensive index at the back of the book for quick reference to key terms and concepts.
- Review the references cited at the end of each chapter, which can lead to original research articles and more detailed discussions.
- For academic inquiries or errata, it is recommended to consult the publisher's official website or contact academic institutions specializing in biochemistry and pharmacology.

SPECIFICATIONS

Attribute	Detail
Publisher	Springer
Publication Date	October 29, 2010
Edition	Third Edition 2005
Language	English
Print Length	710 pages
ISBN-10	144193443X
ISBN-13	978-1441934437
Item Weight	2.8 pounds
Dimensions	7 x 1.7 x 9.7 inches

WARRANTY AND RETURNS

As an academic textbook, this product does not come with a typical manufacturer's warranty for electronic or mechanical components. Returns and refunds are subject to the policy of the retailer from whom the book was purchased. Please consult your point of purchase for their specific return policy details.