



Molecular and Biochemical Toxicology

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Molecular and Biochemical Toxicology From Wiley

An essential resource for graduate students, academic and industrial toxicologists, and environmental health scientists and professionals

Over the course of thirty years and three editions, *Introduction to Biochemical Toxicology* has been an important source for coverage of the ongoing quest to define the biochemical, cellular, and molecular events induced by toxicants at the cellular and organismic levels. Now, as the principles and methods of molecular and cellular biology as well as genomic sciences play an ever increasing role in mechanistic toxicology, significant changes have been made to the book, resulting in this important new edition-now titled *Molecular and Biochemical Toxicology*, Fourth Edition.

Much more than an introductory text, this crucial new edition has been completely revised to provide timely and thorough coverage of the underlying biochemical, molecular, and cellular mechanisms through which toxicants produce their adverse effects. Toxicological issues are covered from the molecule to the cell to the organ level. Complex methods used in toxicology are also described in a straightforward, easy-to-understand style. Additional features of this new edition include:

- New chapters that explore the interface between toxicology and genomic sciences, including: bioinformatics, proteomics, metabolomics, and toxicogenomics
- Increased emphasis on structure, mechanism, and regulation of xenobiotic metabolizing enzymes, toxicogenetics, and xenobiotic transporters
- Additional new chapters on: molecular epidemiology and genetic susceptibility, DNA damage and mutagenesis, DNA repair, mechanisms of cell death, mitochondrial dysfunction, metals, reproductive toxicology, developmental toxicology, and reactive oxygen/metabolites and toxicity

Molecular and Biochemical Toxicology, Fourth Edition guides graduate students, toxicologists, and environmental health professionals through the principles of molecular and biochemical toxicology and the complex mechanisms of toxicity. Whether it's used in the classroom or in industry, research, or academia, this book is essential for anyone interested in understanding the molecular mechanisms through which toxicants produce adverse effects.

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Editorial Review

Review

"A good introductory textbook covering the biochemical toxicology of organic substances and the relevant methodology in some detail.... It offers good value for money and can be recommended as a textbook for appropriate courses." (*BTS Newsletter*, Summer 2009)

From the Back Cover

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About the Author

Robert C. Smart, PhD, is a Professor in the Department of Environmental and Molecular Toxicology at North Carolina State University. Together with Dr. Hodgson, he coedited the previous edition of this book.

Ernest Hodgson, PhD, is the William Neal Reynolds Professor of Toxicology at North Carolina State University. He edited *A Textbook of Modern Toxicology*, Third Edition (Wiley) and is the Editor of the *Journal of Biochemical and Molecular Toxicology*.

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