

BOOK REVIEW

IGOR LINHART: TOXICOLOGY. INTERACTIONS OF NOXIOUS SUBSTANCES WITH LIVING ORGANISMS, THEIR MECHANISMS, MANIFESTATIONS AND EFFECTS. 2ND AMENDED AND SUPPLEMENTED EDITION. UNIVERSITY OF CHEMICAL TECHNOLOGY IN PRAGUE, 2014, 412P. ISBN 978-80-7080-877-L.

The publishing house of the University of Chemical Technology in Prague published in a short time (first edition in 2012) amended and supplemented second edition of the Toxicology textbook. A chapter newly included in the second edition discusses the toxicity of some common chemical reagents and solvents and the risks to health and the environment which is or may be associated with work in chemical laboratories. The author of the textbook is assoc. prof. Ing. Igor Linhart, Ph.D., one of the prominent Czech toxicologists.

The book deals mainly with chemical aspects of toxicology as a science on the interactions of foreign compounds (xenobiotics) with living organisms. Attention is focused on biotransformation of xenobiotics as well as on the interactions of their reactive metabolites with biologically important molecular targets. Chemical transformations of the chemical substances entering living organisms are embedded into the broad context of toxicology to give readers a complex view of toxicology as an intrinsically interdisciplinary science. The book is devoted to advanced students of chemistry, biochemistry and various biomedical disciplines as well as to researchers in toxicology, pharmacology and professionals in industrial toxicology and chemical safety.

Twenty chapters of the book describe in detail what poison is and what toxicology studies. In other chapters, acting of poisons, the fate of xenobiotics in living organisms, chemical transformation of xenobiotics in living organisms and biotransformation reactions and enzymes are defined. The next part of the book is focused on methods of measuring exposure, methods of detection and prediction of toxicity of substances, interpretation and use of toxicological data in order to analyze the risk of harmful effects, organ toxicity, neurotoxicity, mutagenicity and car-

cinogenicity. Since the book is primarily intended for chemists, the last chapter is devoted to chemical toxins in laboratories.

The book is written clearly and understandably, it has a clear structure and contains a number of pictures, diagrams and chemical formulas for better understanding. It has a nice layout and a durable bond that will allow frequent browsing without a damage. A thorough subject index will help readers with searching by a theme.



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