



# Concepts in Toxicology: Explanatory Dictionary of Key Terms

*John H Duffus, Douglas M Templeton, Monica Nordberg*

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Toxicology has never been more important. Advances in chemistry and technology offering improvements in the quality of human life become ever more rapid, bringing with them the potential for new toxicity hazards. This has led to legislation requiring toxicity testing and risk assessment for all chemicals and their uses. The new REACH (Risk Evaluation and Authorization of Chemicals) Regulation has profound economic consequences because, without official authorization, a chemical cannot be marketed. This book explains, in depth, the ideas underlying current advances in toxicology and its application in regulating and ensuring the safe use of chemicals. Sometimes old ideas have become assumptions that have become embedded in related laws and regulation, even though the thinking of toxicologists has moved on in line with developments in science. This leads to confusion in public understanding that the book should dispel. There are also fundamental ideas in toxicology that are not well understood concerning the concepts of hazard and risk and even about what constitutes a chemical. For many people the word 'chemical' describes manmade substances only. In fact, it is correctly applied to all substances that exist, from pure elements to the most complex biological molecules in food and medicines. This is further complicated by the complex distinction between the descriptors, 'toxic' and 'nontoxic'. Developments in epigenetics are revolutionizing our understanding of mutagenicity and carcinogenicity. Improved understanding of apoptosis and necrosis leads to improved interpretation of potentially toxic effects at the cellular level. The recently defined term 'chemical speciation' is driving more targeted research on the toxicity of inorganic chemicals. This book explains the concepts implied by key toxicological terms using diagrams to illustrate the relationships between them. It is an essential aid to understanding the new demands from regulators of risk assessment and to the implementation of appropriate risk management.

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