

Essentials of **Toxicology**



Jaenette Mountford

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Essentials of Toxicology

The study of the negative effects of chemical substances on living organisms are studied under toxicology. The field also encompasses the diagnosis and treatment of exposures of organisms to toxins and toxicants, relationship of the dose with its effect as well as the factors influencing toxicity of the chemical agent. Adverse reactions generally depend on the route of exposure, dosage and factors of age, sex, health, species, etc. Toxicity experiments can be conducted *in vivo*, *in vitro* or *in silico*. This book aims to shed light on some of the unexplored aspects of toxicology. It elucidates new techniques of toxicology testing and their applications in a multidisciplinary approach. In this textbook, constant effort has been made to make the understanding of the difficult concepts of toxicology as easy and informative as possible, for the readers.

Jaenette Mountford received her MSc degree in Toxicology from the University of Birmingham, United Kingdom. Her academic and clinical interests lie in medical toxicology, route of exposure and forensic toxicology. Her books and research papers in the field of toxicology have been published worldwide. Mountford is a distinguished professor of undergraduate education and currently serves as guest faculty for several universities across USA and UK.