DESCRIPTION

Encompassing 150 articles written by leading scientists in the field, the third edition of General and Applied Toxicology provides a comprehensive and in-depth review of the basic science of toxicology, its specializations, and the application of toxicological knowledge.

This new edition reflects developments within the field that have taken place since the second edition was published in 1999. These include:

- New information developed in the areas of both the fundamental and applied aspects of toxicology
- Considerable increase in the development of fundamental information and its applications, refinement of technical methods, advances in mechanistic toxicology, and greater interest in areas of toxicology previously regarded as of limited scope
- Changing approaches to methodological, interpretative, regulatory, and ethical aspects of basic and applied toxicology

General and Applied Toxicology, 3rd Edition is the first port of call for academic researchers, industrial researchers, regulatory professionals, and advanced students looking for timely and authoritative information in the field. Due to the increase in public and media interest in exposure to toxic substances, this provides an indispensable general reference source for general physicians, lawyers, law enforcement agencies, information resource facilities, and members of the general public.

New online resource available now!
In 2011, the content from the third edition of *General and Applied Toxicology* merged with the two-volume *Handbook of Systems Toxicology*. The result? **General, Applied and Systems Toxicology** - a new online resource combining traditional toxicology with the latest developments to present the ultimate reference in toxicology! For full details visit [wileyonlinelibrary.com/ref/gast](http://wileyonlinelibrary.com/ref/gast)

---

**ABOUT THE AUTHOR**

**Bryan Ballantyne, MD, DSc, PhD, FFOM, FACOM, FAACT, FATS, FRCPath, FIbIol (deceased)** was an Independent Consultant in Occupational and Clinical Toxicology. Prior to that he held the positions of: Director of Applied Toxicology for Union Carbide Corporation in Connecticut, USA; Senior Medical Officer and Head of the Section of Toxicology and Pathology at the UK Chemical Defense Establishment; Adjunct Professor of Toxicology at the University of Pittsburgh; and Adjunct Professor of Pharmacology and Toxicology at West Virginia University. He was a Fellow of the Faculty of Occupational Medicine, Royal College of Pathologists, Academy of Toxicological Sciences, and the Institute of Biology. He was formerly a member of the Scientific Subcommittee on Pesticides of the Ministry of Agriculture, Fisheries and Food, UK and of the Committee of Experts on Pesticides, Council of Europe. He has been a member of the Council on Scientific Affairs of the American College of Occupational and Environmental Medicine, and of the Board of Trustees of the American Academy of Clinical Toxicology. Dr. Ballantyne was also the editor or co-editor of seven books on toxicology and related areas and a member of the Editorial Board of five toxicology journals, including *Toxicology Methods, Forensic Science International*, and the *Journal of Applied Toxicology*.

**Timothy Marrs, MD, DSc, MRCP, FRCPath, FIbIol** is a consulting toxicologist for Edentox. He was formerly chief toxicologist at the Food Standards Agency in London, and before that Senior Medical Officer at the Department of Health. Previous to that, he was Senior Medical Officer (Research) at the Chemical Defence Establishment, Porton Down. He is also consulting clinical toxicologist at the West Midlands Poisons Unit in Birmingham. He is a Fellow of the Royal College of Pathologists, Royal College of Physicians of London and of the Academy of Toxicological Sciences. He has also been the editor of a number of books including, *Organophosphates and Health* and most recently *Chemical Warfare Agents Toxicology and Treatment*. He has written a number of papers on toxicology and allied subjects. He is a member of a number of government committees.

**Tore Syversen, MSc, DrPhil** is Professor of Pharmacology and Toxicology at the Norwegian University of Science and Technology Trondheim, Norway. He has been professor of toxicology at NTNU since 1977 and has been engaged in the teaching of toxicology to students of medicine, natural sciences and technology. His main research interest has been metals in health, nutrition as well as in occupational medicine and environmental sciences. Current interests also include using cell cultures for mechanism studies as well as the health challenges introduced by nanoparticles.
For additional product details, please visit https://www.wiley.com/en-us