



# Experimental and Clinical Neurotoxicology (Spencer, Experimental and Clinical Neurotoxicology)

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Two decades have passed since publication of the first edition of *Experimental and Clinical Neurotoxicology* pioneered the development of this discipline. Since then no other book has approached the breadth, scholarship, and balance of that landmark volume. For this long-awaited second edition, the original editors have been joined by Albert Ludolf, who brings expertise in biological neurotoxicology, and together with their distinguished contributors they have completely rewritten and reorganized the text.

The scientific and clinical foundation is laid in three comprehensive introductory chapters. An overview of the biological basis of neurotoxicity provides the groundwork for discussing the scope of human and veterinary neurotoxic disease. The bulk of the text is devoted to an alphabetical treatment of chemicals with neurotoxic potential. This consists of tightly written overviews of the properties, actions, and mechanisms of all manner of substances, whether natural or synthetic. The neurotoxic side effects of experimental agents and of therapeutic as well as abused drugs are covered extensively. Environmental pollutants, workplace contaminants, personal-use products, food additives, and agents harbored by plants, animals, and humans for use against their respective enemies are discussed. Each substance is rated on a three-point scale for the weight of evidence indicating a specific neurotoxic effect in humans, animals, or laboratory models. These effects are summarized and cross-referenced in a series of appendices and an extensive index.

In summary, the second edition establishes neurotoxicology as a scientific discipline that melds neurobiology, toxicology, and neurology. From this unique vantage point, the book examines in encyclopedic manner several hundred chemicals with the capacity to induce neurological illness in humans and animals. Indispensable for the experimental neuroscientist and toxicologist, as well as for practitioners of human and animal medicine, the book also provides an authoritative, critical, and pithy reference work for specialists in public health and the legal profession.

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## **Experimental and Clinical Neurotoxicology (Spencer, Experimental and Clinical Neurotoxicology)**

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## **Editorial Review**

### **Review**

"If you want to have an encyclopedia of how, why, and what is involved with neurotoxic effects, here's the volume to pursue!... This is a well-organized and carefully prepared edited reference book.... It will serve as the premier source for neurotoxic information for years to come. Clinicians, researchers, and particularly toxicologists should be greatly indebted to the editors and publisher for compiling and making available this excellent authoritative text." --Veterinary and Human Toxicology

"Indispensable for the experimental neuroscientist and toxicologist, as well as for practitioners of human and animal medicine, the book also provides an authoritative, critical, pithy reference work for specialists in public health and the legal profession." Oxford University Press

"It is almost 20 years since the appearance of Spencer and Schaumburg's ground-breaking volume on experimental and clinical neurotoxicology, which gave us a comprehensive survey of the subject as understood at the time. This new edition is greatly welcomed, since the original edition is now long out of date. Browsing through the catalogue is a journey through the realms of biology and pharmacology where untold dangers await. This book will be a sound source of information for a wide circle of practitioners in the wards and scientists in the laboratory for a long time to come." --J.B. Cavanagh, Brain, Vol. 123, Part 12, Dec 2000

"The new edition of this book is long overdue and will be warmly welcomed. The book has been expanded and reorganized, and now covers an enormous spectrum of neurotoxic disorders. It is clear that this book will rapidly become the standard reference in the field, and deservedly so. It will fill an important role for many years to come. Its encyclopedic nature, will make it an important addition to all institutional libraries, as well as an invaluable resource to those with a special interest in neurotoxicology." -- Michael Aminoff MD, Muscle and Nerve, Dec 2000

### **About the Author**

Peter S. Spencer is at Oregon Health Sciences University. Herbert Schaumburg is at Albert Einstein College of Medicine.

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