



# Animal Clinical Chemistry: A Practical Handbook for Toxicologists and Biomedical Researchers, Second Edition

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Newcomers to the animal clinical chemistry and toxicology fields quickly find that the same rules of human medicine do not always apply. Following in the footsteps of its standard-setting first edition, **Animal Clinical Chemistry: A Practical Handbook for Toxicologists and Biomedical Researchers, Second Edition** collates information widely dispersed in journals and book chapters, focusing on the most relevant literature to experimental toxicology and its distinction from human medicine.

## **Expands Discussion of Troponins, Lipids, and Electrolytes**

In addition to tests recommended by regulatory authorities, this globally relevant resource includes information about clinical chemistry tests as well as hepato-, nephro-, cardio-, and endocrine toxicity. It also covers pre-analytical and analytical variables, which play a far more important role with interpreting data from animal studies as compared to human studies when variables can be well controlled with less physiological effect. Furthermore, this edition takes its discussion of biomarkers to the next level, exploring newer and related investigations, such as metabolomics/NMR and multiplex technology.

Under the editorial guidance of G.O. Evans, a recognized field authority, the book presents background information on the selection and application of biochemical tests in preclinical safety assessment studies. It also assesses specific organ toxicity, such as in the liver, kidney, and thyroid, along with regulatory requirements and statistical approaches. Careful to avoid delving into overly complex detail, this text is a comprehensive, practical reference ideal for new entrants to the field. However, its broad scope and depth also make it suitable for more seasoned scientists and toxicologists.

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### Editorial Review

Review

*... a welcome update to the 1996 first edition. It is great to see that the new edition retains the highly useful (and extensive) reference list at the end of each chapter. ... Overall, this book represents a valuable addition to the toxicologist's armory, both for those new in the field and those a bit longer in the tooth!*

?Paul Baldrick, in *The British Toxicology Society Newsletter*, Winter 2009, Issue 35

#### Praise for the Previous Edition:

*... a very well written and concise book, which ought to reach a much wider audience than toxicologists. It addresses normal and abnormal clinical chemistry of laboratory animals and is thus of relevance to the large segment of the biomedical research community making use of animal models in their research.*

?Jann Hau, Chair of Comparative Medicine and Head of the Department of Experimental Medicine, University of Copenhagen and State Hospital

*... produced to a high standard, consistent style, and of clear relevance to toxicology .... a timely, practical, and useful addition to the literature. It is highly recommended both for toxicology courses and functional laboratories and will no doubt be regarded as a standard text in the field.*

?Phillip Harvey, AgrEvo UK Ltd, in *The British Toxicology Society Newsletter*, December 1996

About the Author

A. George Owen and Company, UK

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