



Statistics in Toxicology Using R (Chapman & Hall/CRC The R Series)

Ludwig A. Hothorn

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The apparent contradiction between statistical significance and biological relevance has diminished the value of statistical methods as a whole in toxicology. Moreover, recommendations for statistical analysis are imprecise in most toxicological guidelines. Addressing these dilemmas, **Statistics in Toxicology Using R** explains the statistical analysis of selected experimental data in toxicology and presents assay-specific suggestions, such as for the *in vitro* micronucleus assay.

Mostly focusing on hypothesis testing, the book covers standardized bioassays for chemicals, drugs, and environmental pollutants. It is organized according to selected toxicological assays, including:

- Short-term repeated toxicity studies
- Long-term carcinogenicity assays
- Studies on reproductive toxicity
- Mutagenicity assays
- Toxicokinetic studies

The book also discusses proof of safety (particularly in ecotoxicological assays), toxicogenomics, the analysis of interlaboratory studies and the modeling of dose-response relationships for risk assessment. For each toxicological problem, the author describes the statistics involved, matching data example, R code, and outcomes and their interpretation. This approach allows you to select a certain bioassay, identify the specific data structure, run the R code with the data example, understand the test outcome and interpretation, and replace the data set with your own data and run again.

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