

Multivariate methods and small sample size: combining with small effect size

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Running headline: **Multivariate methods and small sample size**

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Dochtermann, N.A. & Jenkins, S.H. Multivariate methods and small sample sizes. *Ethology*.

and accompanies this paper:

Budaev, S. Using principal components and factor analysis in animal behaviour research: Caveats and guidelines. *Ethology*, 116, 472-480 [[abstract](#) / [full text](#)].

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Updates on Combination Therapy for Lung Cancer Muhammad Abbas,Yu-Shun Yang,Wenjing Ji,Meiqi Shi,2023-02-03 [Advances and Applications of Predictive Toxicology in Knowledge Discovery, Risk Assessment, and Drug Development](#) Huaqiang Zhai,Yong-Long Han ,Jiayu Liao,Nan Zhang,2025-11-04 In the 20th century toxicology developed slowly and relied on live animal experiments for a long time several decades With the increasing interest in which was far from the three R principles of animal experiment ethics alternatives to in vivo testing has become more and more important As an additional aspect it is to be mentioned that traditional in vivo experiments in animals sometimes fail to have many uncertainties making it difficult to accurately predict the toxicological effects of chemicals on humans Therefore in vitro toxicity experiments have rapidly developed using biological macromolecules cell lines biological tissues and organs as targets instead of live animals Additionally computational toxicological research began in the early 1980s due to the high cost and social opposition to animal experiments Data mining is carried out through computer science and artificial intelligence technology to find out certain rules with the aim to use existing toxicological data find out rules between structure and toxic effects define a model and use the model to predict the expected toxicity of a new compound Then a toxicity prediction model is established and the possible toxicity of the compounds is predicted according to the model Predictive toxicology uses chemical approaches molecular biological models chemical approaches and mathematical and computer models to explore the relationship between environmental exposures towards xenobiotics including those in the environment and adverse effects of chemicals providing solutions for supporting the risk assessment of chemicals food drugs cosmetics pesticides and other their related products It has become an important direction path for the development and application of modern toxicology This research topic aims to achieve describe efficient prediction and evaluation of drug toxicity by improving the understanding of the mechanism of toxicity and carrying out high throughput risk predictive management of drugs This research topic focuses on the discovery and application of knowledge bases such as toxic ingredient information dose time toxicity relationship information structure toxicity relationship information and clinical toxicity characteristic information of toxic drugs by using information technology such as computers artificial intelligence technologies and biotechnology such as in vitro experiments This provides a data basis for risk prediction of toxic drug candidates and a regular model evaluation offers clinical toxicity risk prediction Possible research contributions under this topic include the development of in vitro prediction models of drug toxicity and the use of these models to explore the toxic effects and mechanisms of drug toxicity on multiple cells organs and systems Using computational methods and experimental techniques experimental data on drug

exposure can be mined to form a knowledge base of drugs Data analysis and mathematical modeling techniques can be used to establish predictive toxicological models to understand drug toxicity the relationship between toxicity and structure and the mechanism of intermediate toxicity This provides a comprehensive and quantitative evaluation of the drug risk Potential topics contributions may include dealing with but are not limited to Advances in predictive toxicology for the discovery of toxicological knowledge Research methods or techniques of predictive toxicology in drug toxicity Construction of the toxicology data repository Research on toxicity discovery toxicity mechanism and toxicity prediction by information technology Research on toxicity discovery toxicity mechanism and toxicity prediction of in vitro biotechnology Establishment of computer models for predicting drug toxicity and risks Establishment of models of drug toxicology in vitro cell tissue system or others In vitro to in vivo model extrapolation **Drug Safety Evaluation** Shayne Cox Gad,2016-11-07 This practical guide presents a road map for safety assessment as an integral part of the development of new drugs and therapeutics Helps readers solve scientific technical and regulatory issues in preclinical safety assessment and early clinical drug development Explains scientific and philosophical bases for evaluation of specific concerns including local tissue tolerance target organ toxicity and carcinogenicity developmental toxicity immunogenicity and immunotoxicity Covers the development of new small and large molecules generics 505 b 2 route NDAs and biosimilars Revises material to reflect new drug products small synthetic large proteins and cells and tissues harmonized global and national regulations and new technologies for safety evaluation Adds almost 20% new and thoroughly updates existing content from the last edition

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