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Statistical techniques for the presentation and analysis of biological data are indispensable tools for the biologist. The purpose of this book is to develop students' appreciation and understanding of statistical usage with the Biosciences and to equip them with the ability to apply statistical methods and the reasoning as an integral aspect of analysis and interpretation of experimental data. Emphasis is placed on where these techniques fit into the overall interpretational objectives of data analysis. Rather than concentrating on the mathematical aspects of the techniques described, this book provides the reader with practical illustrations of data handling.

Practical Statistics for the Biological Sciences is a handbook of statistical methods for use by workers in the biological sciences at all levels from undergraduate to post-doctoral researcher. The book presents, in a clear and compact form, the most common statistical tests used in the biosciences. It provides a series of flow charts to help in selecting the appropriate test. Each test is described concisely and illustrated by worked examples. The text is accompanied by a CD-ROM containing both Windows and Apple Macintosh versions of PractiStat, a new programme for statistical analysis. PractiStat can be used both as a teaching aid to work through the examples provided and as a valuable, easy to use tool for analysis of the users' own data. The programme provides a simple, intuitive interface and permits the application of the common statistical tests and procedures used by bioscientists.

Statistics a tool of research; Data and distributions; The normal distribution; Probability; Inference; Hypothesis testing; Enumeration data chi-square and poisson distributions; Analysis of variance; Correlation and regression; Analysis of covariance; Nonparametric tests.

Emphasizing why statistical techniques are essential tools for biostatistics, Biomeasurement removes the Emphasizing why statistical techniques are essential tools for bioscientists, Biomeasurement removes the stigma attached to statistics by giving students the confidence to use key techniques for themselves. Placing the role of data analysis in the context of the wider scientific method and introducing students to key terms and common statistical concepts, the text demonstrates the power and importance of statistics throughout the study of bioscience.

Scientific research is a proven and powerful tool for discovering the answers to biological questions. As such, today's students need to be well-versed in experimental design, analysis, and the communication of research. Furthermore, they must appreciate how all of these aspects are interlinked - how, for example, statistics can be used to inform the design of a particular experiment. As a resource which skilfully integrates all of the key aspects relating to biological research, Research Methods for the Biosciences is the perfect guide for undergraduates The exceptionally clear layout takes students through choosing a project and planning their research; collecting, evaluating, and analyzing their data; and finally reporting their results. Research methods, which can often seem abstract, are brought to life through the use of examples taken from real undergraduate research. Friendly guidance and advice is provided throughout the text, and little prior knowledge or mathematical experience is required. Since statistics is a subject best learned through doing, frequent worked examples appear throughout Part Two "Handling your data", showing step-by-step how to carry out the various statistical tests. In addition, online software walkthroughs and video screencasts clearly demonstrate how to use software such as SPSS, Minitab, and Excel to carry out statistical analyses Online Resource Centre The Online Resource Centre to accompany Research Methods for the Biosciences features For students:* New video screencasts showing how to carry out statistical tests using software* Statistical software walkthroughs for SPSS, Excel, and Minitab* Additional statistical tests not included in the main text* Full details of calculations given in the in-text boxes * Interactive and printable decision tree, to help you design your experiment* Interactive and printable risk assessment form* Integrative exercises to help students test their understanding of the topics in the book For lecturers:* A test bank of questions* Figures from the book available to download

Papers presented at the conference, held during 23-27 Nov. 2003, at Banaras Hindu University, Varanasi.

This book contains a rich set of tools for nonparametric analyses, and the purpose of this text is to provide guidance to students and professional researchers on how R is used for nonparametric data analysis in the biological sciences: To introduce when nonparametric approaches to data analysis are appropriate To introduce the leading nonparametric tests commonly used in biostatistics and how R is used to generate appropriate statistics for each test To introduce common figures typically associated with nonparametric data analysis and how R is used to generate appropriate figures in support of each data set The book focuses on how R is used to distinguish between data that could be classified as nonparametric as opposed to data that could be classified as parametric, with both approaches to data classification covered extensively. Following an introductory lesson on nonparametric statistics for the biological sciences, the book is organized into eight self-contained lessons on various analyses and tests using R to broadly compare differences between data sets and statistical approach.

This open access textbook provides the background needed to correctly use, interpret and understand statistics and statistical data in diverse settings. Part I makes key concepts in statistics readily clear. Parts I and II give an overview of the most common tests (t-test, ANOVA, correlations) and work out their statistical principles. Part III provides insight into meta-statistics (statistics of statistics) and demonstrates why experiments often do not replicate. Finally, the textbook shows how complex statistics can be avoided by using clever experimental design. Both non-scientists and students in Biology, Biomedicine and Engineering will benefit from the book by learning the statistical basis of scientific claims and by discovering ways to evaluate the quality of scientific reports in academic journals and news outlets.

All students and researchers in environmental and biological sciences require statistical methods at some stage of their work. Many have a preconception that statistics are difficult and unpleasant and find that the textbooks available are difficult to understand. Practical Statistics for Environmental and Biological Scientists provides a concise, user-friendly, non-technical introduction to statistics. The book covers planning and designing an experiment, how to analyse and present data, and the limitations and assumptions of each statistical method. The text does not refer to a specific computer package but descriptions of how to carry out the tests and interpret the results are based on the approaches used by most of the commonly used packages, e.g. Excel, MINITAB and SPSS. Formulae are kept to a minimum and relevant examples are included throughout the text.