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Toxoplasma gondii: The Model Apicomplexan - Perspectives and Methods, Third Edition, reflects significant advances in the field in the last five years, including new information on the genomics, epigenomics and proteomics of T. gondii, along with a new understanding of the population biology and genetic diversity of this organism. This edition expands information on the effects of T. gondii on human psychiatric disease and new molecular techniques, such as CAS9/CSPR. T gondii remains the best model system for studying the entire Apicomplexa group of protozoans, which includes Malaria, making this new edition essential for a broad group of researchers and scientists. Presents a complete review of molecular and cellular biology and immunology of Toxoplasma gondii combined with methods and resources for working with this pathogen Provides a single source reference for a wide range of scientists and physicians working with this pathogen, including parasitologists, cell and molecular biologists, veterinarians, neuroscientists, physicians and food scientists Covers recent advances in the genomics, related bioinformatics analysis, epigenomics, gene regulation, genetic manipulation and proteomics of T. gondii Details advances in the molecular and cellular biology and immunology of Toxoplasma, and in the epidemiology, diagnosis, treatment and prevention of toxoplasmosis

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The 5th Transactions on Computational Systems Biology volume, edited by Gordon Plotkin, features carefully selected and enhanced contributions initially presented at the 2005 IEEE International Conference on Granular Computing. The 9 papers selected for this special issue discuss various aspects of computational methods, algorithm and techniques in bioinformatics such as gene expression analysis, biomedical literature mining and natural language processing, protein structure prediction, biological database management and biomedical information retrieval.

The Analysis of Biological Data provides students with a practical foundation of statistics for biology students. Every chapter has several biological or medical examples of key concepts, and each example is prefaced by a substantial description of the biological setting. The emphasis on real and interesting examples carries into the problem sets where students have dozens of practice problems based on real data. The third edition features over 200 new examples and problems. These include new calculation practice problems, which guide the student step by step through the methods, and a greater number of examples and topics come from medical and human health research. Every chapter has been carefully edited for even greater clarity and ease of use. All the data sets, R scripts for all worked examples in the book, as well as many other teaching resources, are available to qualified instructors (see below).

An essential textbook for any student or researcher in biology needing to design experiments, sample programs or analyse the resulting data. The text begins with a revision of estimation and hypothesis testing methods, covering both classical and Bayesian philosophies, before advancing to the analysis of linear and generalized linear models. Topics covered include linear and logistic regression, simple and complex ANOVA models (for factorial, nested, block, split-plot and repeated measures and covariance designs), and log-linear models. Multivariate techniques, including classification and ordination, are then introduced. Special emphasis is placed on checking assumptions, exploratory data analysis and presentation of results. The main analyses are illustrated with many examples from published papers and there is an extensive reference list to both the statistical and biological literature. The book is supported by a website that provides all data sets, questions for each chapter and links to software.