

Chapman & Hall/CRC Biostatistics Series

Bayesian Modeling in Bioinformatics

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Bayesian Biostatistics Emmanuel Lesaffre, Andrew B. Lawson, 2012-08-13 The growth of biostatistics has been phenomenal in recent years and has been marked by considerable technical innovation in both methodology and computational practicality One area that has experienced significant growth is Bayesian methods The growing use of Bayesian methodology has taken place partly due to an increasing number of practitioners valuing the Bayesian paradigm as matching that of scientific discovery In addition computational advances have allowed for more complex models to be fitted routinely to realistic data sets Through examples exercises and a combination of introductory and more advanced chapters this book provides an invaluable understanding of the complex world of biomedical statistics illustrated via a diverse range of applications taken from epidemiology exploratory clinical studies health promotion studies image analysis and clinical trials Key Features Provides an authoritative account of Bayesian methodology from its most basic elements to its practical implementation with an emphasis on healthcare techniques Contains introductory explanations of Bayesian principles common to all areas of application Presents clear and concise examples in biostatistics applications such as clinical trials longitudinal studies bioassay survival image analysis and bioinformatics Illustrated throughout with examples using software including WinBUGS OpenBUGS SAS and various dedicated R programs Highlights the differences between the Bayesian and classical approaches Supported by an accompanying website hosting free software and case study guides Bayesian Biostatistics introduces the reader smoothly into the Bayesian statistical methods with chapters that gradually increase in level of complexity Master students in biostatistics applied statisticians and all researchers with a good background in classical statistics who have interest in Bayesian methods will find this book useful

Adaptive Design Theory and Implementation Using SAS and R Mark Chang, 2014-12-01 Get Up to Speed on Many Types of Adaptive Designs Since the publication of the first edition there have been remarkable advances in the methodology and application of adaptive trials Incorporating many of these new developments Adaptive Design Theory and Implementation Using SAS and R Second Edition offers a detailed framework to understand the

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Clinical Research Chul Ahn,Moonseoung Heo,Song Zhang,2014-12-09 Accurate sample size calculation ensures that clinical studies have adequate power to detect clinically meaningful effects This results in the efficient use of resources and avoids exposing a disproportionate number of patients to experimental treatments caused by an overpowered study Sample Size Calculations for Clustered and Longitudinal Outcomes in Clinical Research explains how to determine sample size for studies with correlated outcomes which are widely implemented in medical epidemiological and behavioral studies The book focuses on issues specific to the two types of correlated outcomes longitudinal and clustered For clustered studies the authors provide sample size formulas that accommodate variable cluster sizes and within cluster correlation For longitudinal studies they present sample size formulas to account for within subject correlation among repeated measurements and various missing data patterns For multiple levels of clustering the level at which to perform randomization actually becomes a design parameter The authors show how this can greatly impact trial administration analysis and sample size requirement

Addressing the overarching theme of sample size determination for correlated outcomes this book provides a useful resource for biostatisticians clinical investigators epidemiologists and social scientists whose research involves trials with correlated outcomes Each chapter is self contained so readers can explore topics relevant to their research projects without having to refer to other chapters **Adaptive Designs for Sequential Treatment Allocation** Alessandro Baldi

Antognini,Alessandra Giovagnoli,2015-04-06 Adaptive Designs for Sequential Treatment Allocation presents a rigorous theoretical treatment of the results and mathematical foundation of adaptive design theory The book focuses on designing sequential randomized experiments to compare two or more treatments incorporating information accrued along the way The authors first introduce the terminology and statistical models most commonly used in comparative experiments They then illustrate biased coin and urn designs that only take into account past treatment allocations as well as designs that use past data such as sequential maximum likelihood and various types of doubly adaptive designs The book also covers multipurpose

adaptive experiments involving utilitarian choices and ethical issues It ends with adaptive methods that include covariates in the design The appendices present basic tools of optimal design theory and address Bayesian adaptive designs This book helps readers fully understand the theoretical properties behind various adaptive designs Readers are then equipped to choose the best design for their experiment *Quantitative Evaluation of Safety in Drug Development* Qi Jiang,H. Amy Xia,2014-12-08 State of the Art Methods for Drug Safety AssessmentResponding to the increased scrutiny of drug safety in recent years Quantitative Evaluation of Safety in Drug Development Design Analysis and Reporting explains design monitoring analysis and reporting issues for both clinical trials and observational studies in biopharmaceutical product deve

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