

1. Record Nr.	UNINA9910143578003321
Titolo	Pharmacometrics : the science of quantitative pharmacology / / edited by Ene I. Ette, Anoxis Corporation, Paul J. Williams, University of the Pacific and Anoxis Corporation
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-Interscience, , [2007] ©2007
ISBN	1-118-67951-2 1-280-82698-3 9786610826988 0-470-08797-8 0-470-08796-X
Descrizione fisica	1 online resource (1227 p.)
Classificazione	44.38
Disciplina	615.1 615/.1
Soggetti	Pharmacology Pharmacokinetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	PHARMACOMETRICS; CONTENTS; CONTRIBUTORS; PREFACE; ACKNOWLEDGMENTS; 1. Pharmacometrics: Impacting Drug Development and Pharmacotherapy; PART I GENERAL PRINCIPLES; 2. General Principles of Programming: Computer and Statistical; 3. Validation of Software for Pharmacometric Analysis; 4. Linear, Generalized Linear, and Nonlinear Mixed Effects Models; 5. Bayesian Hierarchical Modeling with Markov Chain Monte Carlo Methods; 6. Estimating the Dynamics of Drug Regimen Compliance; 7. Graphical Displays for Modeling Population Data; 8. The Epistemology of Pharmacometrics; 9. Data Imputation PART II POPULATION PHARMACOKINETIC BASIS OF PHARMACOMETRICS10. Population Pharmacokinetic Estimation Methods; 11. Timing and Efficiency in Population Pharmacokinetic/Pharmacodynamic Data Analysis Projects; 12. Designing Population Pharmacokinetic Studies for Efficient Parameter

Estimation; 13. Population Models for Drug Absorption and Enterohepatic Recycling; 14. Pharmacometric Knowledge Discovery from Clinical Trial Data Sets; 15. Resampling Techniques and Their Application to Pharmacometrics; 16. Population Modeling Approach in Bioequivalence Assessment

PART III PHARMACOKINETICS / PHARMACODYNAMICS RELATIONSHIP: BIOMARKERS AND PHARMACOGENOMICS, PK/PD MODELS FOR CONTINUOUS DATA, AND PK/PD MODELS FOR OUTCOMES DATA

17. Biomarkers in Drug Development and Pharmacometric Modeling; 18. Analysis of Gene Expression Data; 19. Pharmacogenomics and Pharmacokinetic/Pharmacodynamic Modeling; 20. Empirical Pharmacokinetic/Pharmacodynamic Models; 21. Developing Models of Disease Progression; 22. Mechanistic Pharmacokinetic/Pharmacodynamic Models I; 23. Mechanistic Pharmacokinetic/Pharmacodynamic Models II; 24. PK/PD Analysis of Binary (Logistic) Outcome Data

25. Population Pharmacokinetic/Pharmacodynamic Modeling of Ordered Categorical Longitudinal Data

26. Transition Models in Pharmacodynamics; 27. Mixed Effects Modeling Analysis of Count Data; 28. Mixture Modeling with NONMEM V; PART IV CLINICAL TRIAL DESIGNS; 29. Designs for First-Time-in-Human Studies in Nononcology Indications; 30. Design of Phase 1 Studies in Oncology; 31. Design and Analysis of Clinical Exposure: Response Trials; PART V PHARMACOMETRIC KNOWLEDGE CREATION; 32. Pharmacometric/Pharmacodynamic Knowledge Creation: Toward Characterizing an Unexplored Region of the Response Surface

33. Clinical Trial Simulation: Theory

34. Modeling and Simulation: Planning and Execution; 35. Clinical Trial Simulation: Efficacy Trials; PART VI PHARMACOMETRIC SERVICE AND COMMUNICATION; 36. Engineering a Pharmacometrics Enterprise; 37. Communicating Pharmacometric Analysis Outcome; PART VII SPECIFIC APPLICATION EXAMPLES; 38. Pharmacometrics Applications in Population Exposure-Response Data for New Drug Development and Evaluation; 39. Pharmacometrics in Pharmacotherapy and Drug Development: Pediatric Application

40. Pharmacometric Methods for Assessing Drug-Induced QT and QTc Prolongations for Non-antiarrhythmic Drugs

Sommario/riassunto

Pharmacometrics is the science of interpreting and describing pharmacology in a quantitative fashion. The pharmaceutical industry is integrating pharmacometrics into its drug development program, but there is a lack of and need for experienced pharmacometricians since fewer and fewer academic programs exist to train them.

Pharmacometrics: The Science of Quantitative Pharmacology lays out the science of pharmacometrics and its application to drug development, evaluation, and patient pharmacotherapy, providing a comprehensive set of tools for the training and development of pharmac

2. Record Nr.	UNISALENTO991002090939707536
Titolo	Fractional calculus : models and numerical methods / Dumitru Baleanu ... [et al.]
Pubbl/distr/stampa	Hackensack, N.J. : World Scientific, c2012
ISBN	9789814355209
Descrizione fisica	xxiv, 400 p. ; 23 cm
Collana	Series on complexity, nonlinearity, and chaos ; vol. 3
Altri autori (Persone)	Baleanu, Dumitruauthor Trujillo, Juan J. Scalas Enrico Diethelm, Kai
Disciplina	515.83
Soggetti	Fractional calculus
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index