



Pharmacometrics: The Science of Quantitative Pharmacology

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Pharmacometrics: The Science of Quantitative Pharmacology From Wiley-Interscience

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 pharmacometrists 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 pharmacometrists.

Edited and written by key leaders in the field, this flagship text on pharmacometrics:

- Integrates theory and practice to let the reader apply principles and concepts.
- Provides a comprehensive set of tools for training and developing expertise in the pharmacometric field.
- Is unique in including computer code information with the examples.

This volume is an invaluable resource for all pharmacometrists, statisticians, teachers, graduate and undergraduate students in academia, industry, and regulatory agencies.

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Editorial Review

Review

"...this landmark text is the first to pull together and present in one volume the many facets of pharmacometrics." (*American Journal of Pharmaceutical Education*, Vol 71, No. 4, 2007)

From the Back Cover

Learn how to perform pharmacometrics to improve drug development success rates

This landmark text is the first to pull together and present in one volume the many facets of pharmacometrics. It features an international team of editors and authors who are experts in the field. Readers gain the knowledge base needed to perform pharmacometric analyses, interpret the results, and communicate these results to key decision makers. In particular, the text emphasizes the role of pharmacometrics in drug development, reflecting the field's enormous potential to increase drug development productivity.

Following an introduction that sets forth key landmarks in the history of pharmacometrics, a section on general principles features such topics as essential programming methods and techniques for pharmacometric analysis software validation. Next, the text presents a series of sections designed to enable readers to gain the knowledge needed to grasp pharmacometrics and then apply that knowledge to practical applications:

- Population pharmacokinetic basis of pharmacometrics
- Pharmacokinetics/pharmacodynamics relationship, including pharmacogenomics
- Clinical trial designs
- Pharmacometric knowledge creation including clinical trial simulation
- Pharmacometric service and communication
- Specific application examples

In addition to its clear and straightforward presentation of theory and methodology, the text features application examples with codes in NONMEM®, S-PLUS®, WinNonlin®, WinNonmix®, ADAPT®, and MATLAB®. Readers can reproduce the examples themselves and gain a deeper understanding of the many practical benefits of pharmacometrics.

Clinical pharmacologists/pharmacokineticists and pharmacometrists in drug development and pharmacotherapy, as well as students in clinical pharmacy, pharmaceutical sciences, and clinical pharmacology, should take advantage of this text to gain the training and knowledge needed to excel in pharmacometrics. More experienced pharmacometrists will want to keep the text on hand to address questions and further develop their skills.

About the Author

ENE I. ETTE, PhD, is a Fellow of the American Colleges of Clinical Pharmacy and Clinical Pharmacology. He is the President/CEO of Anoixis Corp. and was formerly the senior director and head of clinical pharmacology at Vertex Pharmaceuticals, Inc. He is also an adjunct professor of applied pharmaceutical sciences at the University of Rhode Island. Dr. Ette was a pioneer pharmacometric staff in the Office of Clinical Pharmacology and Biopharmaceutics at the Food and Drug Administration, where he developed the

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