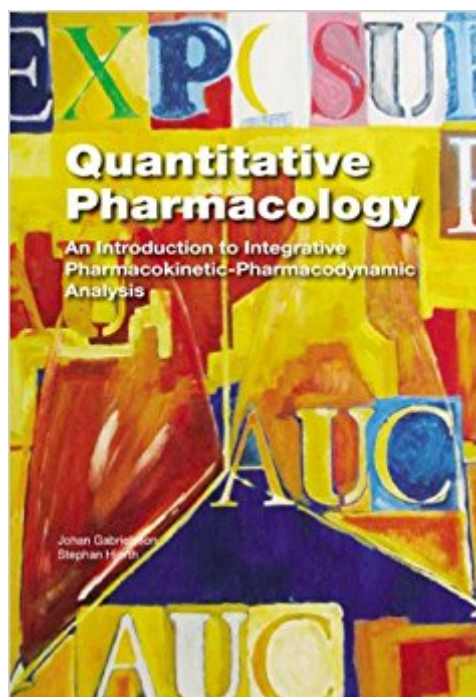




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# Quantitative Pharmacology: An Introduction To Integrative Pharmacokinetic-Pharmacodynamic Analysis



## Synopsis

PKPD awareness is vital if we are to attempt to relate preclinical results to the acute and long term consequences in humans. The debate on whether preclinical findings can be translated to the human usage is still engaging scientists across industry, academia and regulatory bodies. Pharmacokinetics (PK) and pharmacodynamics (PD) comprise traditionally distinct disciplines within pharmacology, the study of the interaction of drugs with the body. It is our intention to show that by deliberately, intimately and systematically integrate these disciplines our understanding of drugs and the efficiency and effectiveness of drug discovery and development may be greatly enhanced. The book is therefore written with a broad audience in mind and focuses on concepts. Pharmacologists of all sorts, safety scientists, pharmacokineticists, medicinal chemists, clinicians, statisticians, veterinarians, animal science professionals, project leaders and students of medical, pharmaceutical and veterinary sciences are the primary targets. This textbook

- Introduces the basics of PK and PD concepts
- Outlines the implications of integrating PK and PD analysis
- Introduces the principles behind different biomarkers and inter-species scaling
- Discusses experimental design of PK, PD and safety studies in non-human species
- Covers numerous real life Case Studies from the drug discovery arena

## Book Information

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## Customer Reviews

"This book provides very attractive and comprehensive reading for a broad audience – both inside as well as outside Pharma – with interest in integrating PK and PD observations for greater

understanding of how to connect drug fate and treatment consequences in vivo."--Professor Arvid Carlsson, Nobel Laureate, Gothenburg University "I consider the book by Gabrielsson and Hjorth to be very useful for in depth studies by scientists working with drug development and experimentalists in clinical pharmacology. It combines the analysis of effects versus time patterns with kinetic corollaries in a most comprehensive way. Moreover, it is a book of great graphical beauty exceptionally styled with a cover painted by one of the authors."--Gunnar Alvan MD PhD, Emeritus professor and former Director General of the Swedish Medical Products Agency

Johan Gabrielsson has been Senior Principal Scientist at AstraZeneca R&D MÃfÂ¶lndal. His responsibilities included kinetic/dynamic related project tasks in the CV & GI & CNS & Cancer & Biologics areas. He is author of the textbook Ã¶œPharmacokinetic and Pharmacodynamic Data Analysis: Concepts and ApplicationsÃ¶œ –â„, 4th ed. (2006). He is professor of Integrative Pharmacology at the Swedish Agricultural University in Uppsala, Sweden. He is also academically affiliated with Dept. of Pharmaceutics, Univ. Tennessee and University of Manchester. He has published extensively in the field of pharmacokinetic-pharmacodynamic modeling and reasoning, and has run numerous courses internally and externally in the area of biological data analysis since 1985 in Europe, the US and Asia (>4000 participants) at both the undergraduate and graduate level. His research focuses on modelling different aspects of endogenous turnover, such as functional tolerance and rebound phenomena, physiological limits and target-mediated drug disposition in collaboration with Professor LA Peletier, Leiden University. He has been external examiner on several PhD Theses abroad. Stephan Hjorth is Principal Scientist at the Bioscience Dept., AstraZeneca R&D, MÃfÂ¶lndal. His main responsibilities includes pharmacodynamic-related project tasks in the CV&GI, metabolism, area. Before joining AstraZeneca R&D he spent ~25 years in various positions at the Dept. of Pharmacology, Gothenburg Univ., and latterly as appointed professor at the Dept. of Pharmacology & Clinical Neurosciences, UmeÃfÂ¶lndal Univ., doing research and teaching at the undergraduate as well as the graduate level. He has published extensively, mainly in the field of preclinical neuro- and psychopharmacology, and also acted as editor for the Journal of Neural Transmission. He is a member of several national and international scientific societies, has reviewed grant applications to the EU Framework programme and other foreign grant agencies, and been external examiner at several PhD dissertations in Sweden and abroad. His current research primarily focuses on discovery and development of drugs for obesity and appetite control, including efforts towards animal models useful in translational modelling of PK-PD relationships.

I have just begun to get to know this textbook. Very well done and from what I can tell, experienced pharmacologists who know how to teach. very practical text in terms of concepts.

This is one of my favorite books on the quantitative principles behind pharmacology and pharmacokinetics. It is well written and easily understandable. I love the graphics. I have recommended this book many times to my medical and pharmacology colleagues who wish to learn more about the field.

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