

Preface

Cardiac Drug Development Guide outlines, in detail, the therapeutics of cardiac medicine currently at the cutting edge of scientific research and development around the world. This volume integrates basic and clinical cardiac pharmacology by combining, for the first time, both classical and molecular aspects of therapeutic drug development. The chapters comprise a broad spectrum of therapeutic areas and hence involve a comprehensive discussion of molecular, biochemical, and electrophysiological concepts based on years of in vitro as well as in vivo pharmacological studies. In addition, the latter part of the book includes comprehensive clinical cardiac chapters that describe important topics in molecular medicine. These chapters also discuss current clinical therapeutic trends in medicine and provide an evaluation of the efficacy of novel drugs in these areas.

Cardiac Drug Development Guide has many distinctive and outstanding features that set it apart from other cardiac pharmacology books. This book introduces topics in an easily understandable format for researchers in many varying disciplines by integrating and thereby simplifying concepts not usually discussed across a broad range of cardiac disciplines and in a highly technical field. Each chapter not only introduces and describes the physiology, pharmacology, and pathophysiology of the disease, but also overviews the clinical implications of drug development, what stages these areas are currently in, and also reviews some of the methodologies involved in drug discovery and development. As a result, this book provides a comprehensive overview of the most advanced procedures in cardiac pharmacology today. It is hoped that *Cardiac Drug Development Guide* provides useful information to graduate students, academic scientists, clinicians, and those researchers in the pharmaceutical and biotechnology sectors of the drug industry.

Cardiac Drug Development Guide was fashioned from my many years of experience both learning pharmacology as a graduate student in Canada and as an MRC postdoctoral research fellow and applying that knowledge in industry as a senior pharmacological scientist. I wish to thank all my colleagues around the world for contributing to this book and to my family, especially my loving wife, Suzanne, for all their support.

Michael K. Pugsley



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