

PREFACE

Chemical biology is a cross-disciplinary science at the interface of chemistry, biology, and medicine. Chemical biology aims at the elucidation of the chemical mechanisms of living systems and is important to drug discovery, playing a key role in the development of novel agents for the prevention, diagnosis, and treatment of diseases.

Containing carefully selected reprints from the award-winning *Wiley Encyclopedia of Chemical Biology*, which published in 2008, as well as new contributions, this book features a collection of chapters on topics of interest to scientists working in the areas of drug discovery and development. Chapters in Part I of this book cover a range of topics on the design, development, and optimization of drug candidates, the pharmacokinetics and properties of drugs, and drug transport and delivery. Part II covers the mechanisms of particular diseases and the strategies used to understand, target, and treat these diseases.

Written by prominent scholars, this book will be of interest to advanced students and researchers, both in academia and industry, in the field of chemical biology or related fields such as biochemistry, medicine, and pharmaceutical sciences, with particular interest in drug discovery and development.

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