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An introduction to medicinal chemistry 6th edition pdf download

For many people, taking some form of medication is part of everyday life, whether for mild or severe illness, acute or chronic disease, to target infection or to relieve pain. However for most it remains a mystery as to what happens once the drug has been taken into the body: how do the drugs actually work? Furthermore, by what processes are new drugs discovered and brought to market? An Introduction to Medicinal Chemistry, sixth edition, provides an accessible and comprehensive account of this fascinating multidisciplinary field. Assuming little prior knowledge, the text is ideal for those studying the subject for the first time. Part one of the book introduces the principles of drug action via targets such as receptors and enzymes. The book goes on to explore how drugs work at the molecular level (pharmacodynamics), and the processes involved in ensuring a drug meets its target (pharmacokinetics). Further sections cover the processes by which drugs are discovered and designed, and what has to happen before a drug can be made available to the public. The book concludes with a selection of current topics in medicinal chemistry, and a discussion of various key drug groups. The subject is brought to life throughout by engaging case studies highlighting particular drugs and the stories behind their discovery and development. The Online Resource Centre features: For students: DT Multiple Choice Questions to support self-directed learning DT Web articles describing recent developments in the field and further information on topics covered in the bookDT Journal Club to encourage students to critically analyse the research literatureDT Molecular Modelling Exercises, with new exercises in Chem3DDT New assignments to help students develop data analysis and problem solving skills For registered adopters of the book: DT A test bank of additional multiple-choice questions, with links to relevant sections in the bookDT Answers to end-of-chapter questions.DT Figures from the book, ready to download.DT Power Point slides to accompany every chapter in the book. This textbook for undergraduates is now in its 6th edition Graham L. PatrickOxford University Press2017 | 912 | £39.99 (PB)ISBN 9780191073915 Graham L. PatrickOxford University Press2017 | 912 | £39.99 (PB)ISBN 9780191073915Samzn.to/2wVei9B Careers in the pharmaceutical sector are a popular destination for chemistry undergraduates. There are many degree courses that teach medicinal chemistry, the application of chemistry and biology towards healthcare. An introduction to medicinal chemistry by Graham Patrick is designed to cater for such courses. First published in 1995, its sixth edition is now released. The book is divided into five logical key sections covering topics from the principles of medicinal chemistry to medicinal chemistry in practice. The opening section introduces fundamental biochemistry for those lacking the requisite background, while those with this knowledge can skip this section. The following sections introduce the principles of drug discovery, pharmacodynamics, pharmacokinetics and the overall drug discovery process. The section after introduces tools of the trade commonly used in the pharmaceutical sector. Due to the constantly evolving nature of the methods used in drug discovery, I'm not sure how relevant some of these will be in a few years' time, and so why they are included in the book. In contrast, the previous sections covering the principles will stand the test of time. The final section is a selection of case studies of drug design in various disease areas. These are useful for learning how strategies for drug discovery have evolved over the years. The inclusion of modern examples is welcome as this information can be difficult to find elsewhere. The quality of the writing is very good and there are plenty of diagrams throughout. There are questions at the end of each chapter to help reinforce concepts. The suite of online resources that supplement this book is impressive. This includes multiple choice questions, links to 3D structures and 3D modelling exercises (if your institution has a licence for Spartan). I highly recommend this book for anyone studying medicinal chemistry or working in the pharmaceutical sector. This book could also have potential at the secondary level for teachers who would like examples of how chemistry overlaps with other sciences, and has an impact on human health. Purchase An introduction to medicinal chemistry from Amazon.co.uk Download & View An Introduction to Medicinal Chemistry (4th Edition) by Graham L.Patrick .pdf as PDF for free Top reviews Most recent Top reviews Description Table of Contents Product Details Click on the cover image above to read some pages of this book! For many people, taking some form of medication is part of everyday life, whether for mild or severe illness, acute or chronic disease, to target infection or to relieve pain. However for most it remains a mystery as to what happens once the drug has been taken into the body: how do the drugs actually work? Furthermore, by what processes are new drugs discovered and brought to market?An Introduction to Medicinal Chemistry, sixth edition, provides an accessible and comprehensive account of this fascinating multidisciplinary field. Assuming little prior knowledge, the text is ideal for those studying the subject for the first time. Part one of the book introduces the principles of drug action via targets such as receptors and enzymes. The book goes on to explore how drugs work at the molecular level (pharmacodynamics), and the processes involved in ensuring a drug meets its target (pharmacokinetics). Further sections cover the processes by which drugs are discovered and designed, and what has to happen before a drug can be made available to the public. The book concludes with a selection of current topics in medicinal chemistry, and a discussion of various key drug groups. The subject is brought to life throughout by engaging case studies highlighting particular drugs and the stories behind their discovery and development.The Online Resource Centre features: For students: Multiple Choice Questions to support self-directed learning Web articles describing recent developments in the field and further information on topics covered in the book Journal Club to encourage students to critically analyse the research literatureMolecular Modelling Exercises, with new exercises in Chem3DNew assignments to help students develop data analysis and problem solving skillsFor registered adopters of the book: A test bank of additional multiple-choice questions, with links to relevant sections in the book Answers to end-of-chapter questions. Figures from the book, ready to download. Power Point slides to accompany every chapter in the book. 'It is by far the best book on the market for medicinal chemistry and drug discovery.' Professor Steven Bull, University of Bath Summarizes the chemistry of medicinal agents in a manner that easily facilitates understanding of the core principles in the context of pharmacological drug action and clinical therapeutics.' Professor John Marriott, University of Birmingham 1: Drugs and drug targets - an overviewPart A Drug targets - structure and function 2: Protein structure and function 3: Enzymes: structure and function 4: Receptors: structure and function 5: Receptors and signal transduction 6: Nucleic acids: structure and functionPart B Pharmacodynamics and pharmacokinetics 7: Enzymes as drug targets 8: Receptors as drug targets 9: Nucleic acids as drug targets 10: Miscellaneous drug targets 11: Pharmacokinetics and related topics Case study 1: StatinsPart C Drug discovery, design, and development 12: Drug discovery: finding a lead 13: Drug design: optimizing target interactions 14: Drug design: optimizing access to the target 15: Getting the drug to market Case study 2: The design of ACE inhibitors Case study 3: Artemisinin and related antimalarial drugs Case study 4: The design of oxamniquinePart D Tools of the trade 16: Combinatorial synthesis 17: Computers in medicinal chemistry 18: Quantitative structure-activity relationships (QSAR) Case study 5: De novo design of a thymidylate synthase inhibitorPart E Selected topics in medicinal chemistry 19: Antibacterial agents 20: Antiviral agents 21: Anticancer agents 22: Cholinergics, anticholinergics, and anticholinesterases 23: Drugs acting on the adrenergic nervous system 24: Opioid analgesics 25: Antiulcer agents 26: Cardiovascular drugs Case study 6: Steroidal anti-inflammatory agents Case Study 7: Design of a novel antidepressant Case Study 8: The design and development of aliskiren Case Study 9: Factor Xa inhibitors Case Study 10: Reversible inhibitors of HCV NS3-4A proteaseAppendices ISBN: 9780198749691 ISBN-10: 0198749694 Audience: Tertiary/ University or College Format: Paperback Language: English Number Of Pages: 832 Published: 20th June 2017 Publisher: Oxford University Press UK Country of Publication: GB Dimensions (cm): 26.5 x 20.2 x 3.5 Weight (kg): 1.66 Edition Number: 6 Edition Type: Revised an introduction to medicinal chemistry 6th edition pdf free download. an introduction to medicinal chemistry 6th edition pdf download

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