

MEDICINAL CHEM

Medicinal chemistry deals with the design, optimization and development of chemical compounds for use as drugs.

Functional Groups

- Functional groups play a significant role in:
- Water Right notlability
- Route of administration.
- Ability to interact with the specific biological target.
- Mochanism (mode or method) of action
- Route of metabolism and elimination
- Duration of action
- Suitability for specific thempeutic situations
- Tendency to course adverse effects or drug interactions Three concepts that should always be considered when examining a drug molecule:
- I. Every atom within the structure belongs to some functional atoms.
- 2. Within a drug molecule, some functional groups may be more "important" than others. The opposite may be true for a different drug molecule.
- 3. Altering functional groups can enhance activity, increase advorption, decrease adverse effects, and provide other the appearing beauties.
- Three major chemical proporties that need to be analyzed for every functional group;
- 1. Electronic effect: The components that comprise the overall electronic effect of a functional group are induction manufic attenues and continues of
- a. Measured by a functional group's ability to donate its electrons to adjacent atoms or functional groups 2. Solubility effect: Overall solubility is a composite sum of
- all the functional groups found as part of a drug molecule. 3. Storic effects Each functional group has a finite size
 - and storic dimension; this contributes to the overall conformation and thus the 3-D shape of a given drug.
- · The three major chemical properties combined need to be considered when evaluation the overall pharmacodynamic and pharmacokinetic properties of any given-drug molecule.

ELECTRONEGATIVITY: KEY POINTS

- . E.D.CL and Name the most electromagative element O will always attract electrons to it, unless it is attached to a fi-
- . All the halogens (I, O), Br, and () as well as O and 6 will attract electrons away
- C will slightly attract electrons away from it (inductive effect).
- . The difference in electronogativity causes a dipole.

Solubility

 Overall water and/or lipid solubility of a drug molecule afflicate its moutor's air administrations distribution within the body, metabolism, duration of action, and route(s) of climintelligent.

- Toronto too Serveror
- Hydrophobicity (a.k.a. lipophilicity): How waterdistilling (i.e., oil-liking) a drug molecule is
- Hydrophilicity (a.k.a. lipophobicity): How waterfilting (i.e., oil-distribute) a drug molocule is
- . The contribution to solubility by a functional group may be increased or decreased depending upon adjacent groups.
- Water soluble functional groups:
 - Enhance water solubility; often referred to as hydrophillie groups.
 - The two major properties that contribute to water solubility:
 - Whether the group is or can be loaded. © Either positive (+) or negative (-)
 - EX: Quaternary amine—no matter what pH the molecule finds itself in, it will always have a + charge.
 - The group's ability to hydrogen bond with water

- Size & Steric Dimension

 The addition of a sterically bulky functional group can:
- Increase selectivity for its biological target
- Enhance blading interactions with its biological target Cause fiscorable alterations in the rate of metabolisms
- The acidio-basic nature of a drug molecule influences its chemical, pharmaceutical, and therapeutic proporties.
- . If a functional group can be isolated at a certain pH, its water solubility will increase.
- While this helps the gastrointestinal (GI) tract dissolve the molecule, the unionized form (without a charge) is better for passage through the lipid membrane.
- Ionization: Equilibrium process that allows for functional groups to form electrostatic interactions with target receptors, transport proteins, enzymes, and other endogenous biological targets.
 - Electrostatic (a.k.a ionic) interactions are the strongest memoryalizati bondo.
- Drug molecules can interact with plasma proteins dustriallly via electrostatics).
 - This sequesters them from metabolic/elimination pathways and extends the duration of action.
- The human serum allbumin is a major transporter of drug molecules but is nonspecific. It generally binds acid drug molecules to a greater extent than basic drug molecules.
 - Albumin also binds hydrophobic compounds more tightly than hydrophilic ones.
- What if you are taking two different drugs and both contain. an acidic functional group?
- Plasma protein displacement interactions one occur.
- This could grounly affect the half-life of the drug, particularly when the drug is 90% plasma protein bound.

- · Drug molecules that are highly looked are more water soluble, so they need less metabolism to be eliminated.
- There are specific transport proteins of certain organic acids within the renal tubules that actively secrete acidic moleemilione.
 - From the plasma to the urine
 - . This decreases the half-life of the drug molecules.
 - From the urine to the plasma.
 - This increases the half-life of the drug molecules.

Acidic & Basic Functional Groups

Executional I	-	-	phi, Name
100	Corbonythe sold	Aridar	2.5-3
iji.	() observations)	Airtidae	45-45
25-	Bullimanuka	Artiflet	5-10
-1280	Mr Studilling Statem	Acides	3-6
	Yetronides	Neidle	4.5-6
000	Should	Acidia	7-10
· · · · ·	Sullines	Neide	0-2
e o f on	- F-0-	Action	1.5-2.5 (Seet plansplane) 6.5-7.5 (second plansplane) 2-3 (Seet plansplane) 7-9 (second plansplane)
1	-	Desir	9-10 (offer performance)
oi.	Anton	t-	2 f (other protections)
and the same of th	Bettern	Bloom	3-4 Cellus promiserant
and the same	Disposition of the last of the	Blanck	7.5-8.5 (allos protessatores)
- T.	Amirbine	Beerle	30-11 (other protosotion)
- , -	Consider	David,	12-13 (other protonultion)
& C	.	State of	1-5 Calles protessations)

Amino Acids







pH & pK

phil - - dought 1

- Refers to the solution, not a functional group
- Indicates how many "free" III's there are in the solution
- HEX: plit of 0.1 M H. $p(0) = -\log_2(0, 1) = -(-1) = 1$ EX: pell of 0.0001 MHT p01 = -(1-1) = -(10000.0) = -(-1) = 4

Acid Strength (pK_)

- · Property of functional groups Afflocted by steric and electronic
- Can be used to compare the relative acidity of functional groups Rule Is Lower pK value -stronger acid (wants to lose One 10 h
- Rule 2: Higher pK, value -stronger conjugate base/weakor sould (wants to gain the H)

+ 18" + A" - THAN

- Low pK : Reaction is to the
- High p.K., : Reaction is to the Lord St.

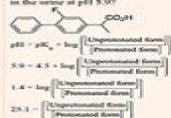
$$pK_{a} = \log(K_{a})$$

$$[pt^{*}][A^{*}]$$

BUA Hersdorson-Hussielbidch ogusti part or part, or long. Unpresented from Proteind from

- Used to calculate the:
- pHI change in buffered solu-Berger.
- pHI change in the motor ratio of salt to acid concentrations needed to prepare a buffler sobuttom at a cortain pill
- Percent ionization of a fenctional group at a certain soluthem pitt

EX: Fluibiposition's functional group has a pK, of 4.5, so it must be carbooxidis sold. Will it be primary protonated or improtonated iff it is im the suring at pHI 5.97



Autowayer Morey umprotomotod The protonation state affects:

The charge of a functional group (n or -)

Medicinal Chemistry Study Guide

Brigitte Niedzwiecki, Julie Pepper, P. Ann Weaver

Medicinal Chemistry Study Guide:

Studyquide for an Introduction to Medicinal Chemistry by Patrick, Graham L. Cram101 Textbook Reviews, 2013-05 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and guizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780872893795 This item is printed on Fundamentals of Medicinal Chemistry and Drug Metabolism M. O. Faruk Khan, Ashok Philip, 2018-06-01 The primary objective of this 4 volume book series is to educate PharmD students on the subject of medicinal chemistry The book set serves as a reference guide to pharmacists on aspects of chemical basis of drug action This first volume of the series is comprised of 8 chapters focusing on basic background information about medicinal chemistry It takes a succinct and conceptual approach to introducing important fundamental concepts required for a clear understanding of various facets of pharmacotherapeutic agents drug metabolism and important biosynthetic pathways that are relevant to drug action Notable topics covered in this first volume include the scope and importance of medicinal chemistry in pharmacy education a comprehensive discussion of the organic functional groups present in drugs and information about four major types of biomolecules proteins carbohydrates lipids nucleic acids and key heterocyclic ring systems. The concepts of acid base chemistry and salt formation and their applications to the drug action and design follow thereafter These include concepts of solubility and lipid water partition coefficient LWPC isosterism stereochemical properties mechanisms of drug action drug receptor interactions critical for pharmacological responses of drugs and much more Students and teachers will be able to integrate the knowledge presented in the book and apply medicinal chemistry concepts to understand the pharmacodynamics and pharmacokinetics of therapeutic agents in the body **Study Guide for Clinical Procedures for Medical Assistants** - E-Book Kathy Bonewit-West, 2022-10-12 Learn how to think critically and perform competently in the clinical setting Correlating to chapters in Clinical Procedures for Medical Assistants 11th Edition this study guide provides additional activities review questions and exercises designed to prepare you to work in a modern medical office Content aligns to the new 2022 medical assisting educational competencies and provides procedure checklists and video evaluations to help you track your mastery of clinical skills This essential companion provides the practice you need to prepare for a successful career in the fast paced world of medical assisting Critical thinking activities with realistic situations help students analyze and apply what they ve learned with games role playing situations crossword puzzles and independent study questions Focus on competency mastery includes worksheets to practice key skills and evaluation forms to assess proficiency Assignment sheets at the beginning of chapters help students stay organized and document their progress NEW 2022 CAAHEP medical assisting competencies throughout represent the latest educational standards NEW Updated content addresses changes in the medical record nutritional guidelines OSHA standards for infection control and prevention emergency preparedness and

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Basic Concepts in Medicinal Chemistry Marc Harrold, Robin Zavod, 2013-01-18 Medicinal chemistry is a complex topic Written in an easy to follow and conversational style Basic Concepts in Medicinal Chemistry focuses on the fundamental concepts that govern the discipline of medicinal chemistry as well as how and why these concepts are essential to therapeutic decisions. The book emphasizes functional group analysis and the basics of drug structure evaluation. In a systematic fashion learn how to identify and evaluate the functional groups that comprise the structure of a drug molecule and their influences on solubility absorption acid base character binding interactions and stereochemical orientation Relevant Phase I and Phase II metabolic transformations are also discussed for each functional group Key features include Discussions on the roles and characteristics of organic functional groups including the identification of acidic and basic functional groups How to solve problems involving pH pKa and ionization salts and solubility drug binding interactions stereochemistry and drug metabolism Numerous examples and expanded discussions for complex concepts Therapeutic examples that link the importance of medicinal chemistry to pharmacy and healthcare practice An overview of structure activity relationships SARs and concepts that govern drug design Review questions and practice problems at the end of each chapter that allow readers to test their understanding with the answers provided in an appendix Whether you are just starting your education toward a career in a healthcare field or need to brush up on your organic chemistry concepts this book is here to help you navigate medicinal chemistry About the Authors Marc W Harrold BS Pharm PhD is Professor of Medicinal Chemistry at the Mylan School of Pharmacy Duquesne University Pittsburgh PA Professor Harrold is the 2011 winner of the Omicron Delta Kappa Teacher of the Year award at Duquesne University He is also the two time winner of the TOPS Teacher of the Pharmacy School award at the Mylan School of Pharmacy Robin M Zavod PhD is Associate Professor for Pharmaceutical Sciences at the Chicago College of Pharmacy Midwestern University Downers Grove IL where she was awarded the 2012 Outstanding Faculty of the Year award Professor Zavod also serves on the adjunct faculty for Elmhurst College and the Illinois Institute of Technology She currently serves as Editor in Chief of the journal Currents in Pharmacy Teaching and Learning Study Guide for Today's Medical Assistant - E-Book Kathy Bonewit-West, Sue Hunt, Edith Applegate, 2014-07-30 Use this study tool to master the content from your Today's Medical Assistant Clinical Administrative

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chapters Additional summary tables to help readers better select the proper drug binding interaction Expanded discussion on Pharmacogenomics including multiple specific examples Updated examples throughout the text to include a wider range of drugs and drug classes Increased focus on application of concepts to therapeutic decisions and pharmacy practice Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book Brigitte Niedzwiecki, Julie Pepper, P. Ann Weaver, 2022-06-18 Designed to support the trusted content in Kinn's The Medical Assistant 14th Edition this study guide is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure that you learn to master and apply key medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common administrative and clinical skills including new certification preparation questions that offer additional practice for certification exams a review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years as a key part of the student journey from classroom to career it also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Comprehensive coverage of all administrative and clinical procedures is built from Medical Assisting accreditation standards and competencies Hundreds of practice questions multiple choice true false fill in the blank help students with essential content review and practice Skills practice workplace applications and online activities promote critical thinking before students enter practice Procedure checklists help students track their performance of every procedure included in the textbook Work products allows students to provide documentation of skills mastery for classroom or job searching requirements Chapter by chapter correlation with the textbook allows students to easily follow core textbook competencies Perforated pages for on the go study or turn in assignments and evaluations NEW Chapter reviews medical terminology anatomy and physiology and pathology to reinforce key foundational knowledge NEW Expanded content on medical office accounts collections banking and practice management prepares students to step into the role of a Medical Assistant NEW Certification Preparation questions help students focus on certification from the beginning of their studies NEW Streamlined presentation combines chapters and focuses on need to know content **Study Guide and Procedure** Checklist Manual for Kinn's The Clinical Medical Assistant - E-Book Brigitte Niedzwiecki, Julie Pepper, 2022-09-06 Designed to support the trusted content in Kinn's The Clinical Medical Assistant 15th Edition this study guide is an essential review and practice companion to reinforce key concepts encourage critical thinking and help you apply medical assisting content This robust companion guide offers a wide range of activities to strengthen your understanding of common clinical skills including certification preparation questions a review of medical terminology and anatomy and application exercises Trusted for more than 65 years as a key part of the journey from classroom to career it also features competency checklists to accurately measure your progress and performance from day one until you land your first job as a medical assistant Comprehensive coverage of all clinical procedures complies with accreditation requirements Approximately 135 step by step

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