

ACS Biochemistry Final

pKa (chapter 3)

measure of the tendency of a group to give up a proton (acidity); tendency decreases tenfold as pKa increases by one unit

thioester bond (1)

compounds with functional group C-S-CoA-C (eg, in acetyl-CoA)

zwitterion (3)

dipolar ion with both positive and negative groups but overall neutral charge; can act as either an acid or base

Isoelectric point (pI) (chapter 3)

the characteristic pH at which the net electric charge is zero

SDS - Sodium Dodecyl Sulfate (chap 3)

detergent used to unfold proteins and give them uniform negative charge

SDS Page (3)

chromatography used to separate proteins based on mass. light proteins travel fast than heavier ones

PCR - Polymerase chain reaction (3)

copies DNA multiple times to increase sample size

Isoelectric focusing (chapt 3)

procedure used to determine the isoelectric pt (pI) of a protein. Protein migrates through gel until pH = pI (net charge = 0)

Two-Dimensional Electrophoresis (3)

combines isoelectric focusing and SDS electrophoresis; separates proteins by both molecular weight and pI

specific activity (3)

number of enzyme units per mg of total protein (a measure of enzyme purity)

activity (3)

total units of a certain enzyme in a solution

Peptide bonds (chapter 4)

C-N bond with double bond character due to resonance (C-N bond cannot rotate, and is planar)

Edman degradation (3)

used in the sequencing of polypeptides; labels and removes ONLY the amino-residue from a polypeptide. carried out in a machine called a sequenator

ϕ in peptide bonding (chapter 4)

angle around the α -carbon - amide nitrogen bond

ψ in peptide bonding (chapter 4)

angle around the α -carbon - carbonyl carbon bond

Ramachandran Plot (4)

shows favorable ϕ - ψ angle combinations. 3 main "wells" for α -helices, β -sheets, and left handed α -helices

Levinthal's Paradox (4)

How To Study For Acs Biochem Final And

Steve Suib



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Bridging Membrane Biophysics to Microbiology: Innovating Towards New Peptide and Peptide-based Antimicrobials Miguel A. R. B. Castanho, Lorenzo Stella, Sattar Taheri-Araghi, Sergey A. Akimov, 2022-02-01 **Carbapenemases in Gram-negative Bacteria: A Global Health Threat and Therapeutic Challenge** Mullika Traidej Chomnawang, Che-Hsin Lee, Mary Marquart, 2022-06-27 Drug Discovery Stories Bin Yu, Peng Zhan, 2024-10-25 *Drug Discovery Stories From Bench to Bedside* presents a collection of cases on the development of highly successful pharmaceuticals. It delves into the realm of drug discovery exploring the structural biology and biological functions of the sought after targets. The book covers the identification of promising compounds, their transformation from hits to leads through meticulous optimization, and the elucidation of how key compounds interact with the target in essence providing invaluable insights for drug design. Additionally, it covers essential information such as the pivotal biological and PK data of lead compounds, any noteworthy clinical results, and a comprehensive overview of other candidate compounds. The field of drug discovery and development has experienced rapid evolution with numerous new drugs receiving approval each year. While several books have been published on this subject, there is a pressing need for a new book series that accurately reflects the current advancements in drug discovery. This book aims to not only cater to the drug discovery community but also engage other communities involved in chemical biology, synthetic chemistry, and pharmacology. Analyzes the drug discovery stories of different blockbuster drugs. Includes the newly approved drugs. Covers key aspects related to the drug development of the drugs. *Frontiers in Chemistry: 10 Years Anniversary* Steve Suib, 2025-03-04 We are delighted to present the inaugural edition of the article collection 10 years with Frontiers in Chemistry. This collection celebrates high impact, authoritative, and accessible articles covering the most topical research at the forefront of the chemical sciences in honor of Frontiers 10th anniversary. The collection contains works encompassing all of our nineteen sections in Frontiers in Chemistry. Each article was selected by the nomination of our Field Chief Editor Prof Steve Suib in recognition of the author's prominence and influence in their respective field or by virtue of their reputation in the research community. The cutting edge work presented in this article collection highlights the diversity of research performed across the entire breadth of the chemistry field and reflects on the latest advances in the theory, experiment, and methodology with applications to compelling problems. We would also like to take the opportunity to celebrate the advances highlighted in Frontiers in Chemistry over the last ten years across each of the fields included within our journal. We hope that our journal may continue to highlight advances in chemistry for ten years and more. 10 years with Frontiers in Chemistry is a selective collection of articles intended to celebrate Frontiers 10 year anniversary and the most cutting edge research currently published. As such, submissions to this collection will benefit from increased visibility via promotion on social media and at conferences. *Protein Misfolding* Rossen Donev, 2020-01-13 *Protein Misfolding* Volume 118 covers the wide spectrum of diseases and disorders that are attributed to protein misfolding.

including degenerative and neurodegenerative cardiovascular renal glaucoma cancer cystic fibrosis Gaucher s disease and many others Specific chapters cover Mass spectrometric approaches for profiling protein folding and stability Biomembranes a key player in protein misfolding how Genetic and environmental factors interact to disrupt proteostasis and trigger protein misfolding diseases Formation of oligomers and large amorphous aggregates by intrinsically disordered proteins Protein misfolding in ER stress with applications to cardiovascular and renal disease and much more *Ion Channel Structure and Drug Discovery Accelerated by Cryo-EM* Shujia Zhu,Lei Chen,Changlin Tian,Chia-Hsueh Lee,Huaizong Shen,2022-11-30

Hydrogenase: Structure, Function, Maturation, and Application Stefan Frielingsdorf,Francesca Valetti,Constanze Pinske,Chris Greening,2023-10-24 Molecular hydrogen H₂ is an important molecule in the metabolism of diverse microorganisms It is used either as energy source or for the disposal of reducing equivalents depending on environmental conditions Furthermore H₂ transmits energy between different species within microbial communities The enzymes that split or evolve H₂ are called hydrogenases and these metalloproteins can be divided into three phylogenetically unrelated classes distinguishable by the metal composition of their active sites namely Fe FeFe and NiFe hydrogenases Following a century of hydrogenase research it is now possible to isolate handle and investigate these fragile enzymes There have been numerous advances in understanding the regulation function structures and maturation of these enzymes as well as their involvement in important processes such as microbial pathogenesis and biogeochemical cycling The employment of hydrogenases and hydrogenase based applications could also potentially facilitate the world s transition to a future sustainable H₂ based energy economy *Drug-Resistance in Cancer Cells: A New Wine in an old Bottle* Leonardo Freire-de-Lima,Takeo

Tatsuta,Seung-Yeol Park,2023-04-05 **Bacterial Amyloids** Véronique Arluison, Frank Wien, Andrés Marcoleta,2022-08-11 This detailed volume introduces different methods to assess the structure and folding of bacterial amyloids and analyze their functions either in vitro or in vivo Despite their initial association with neurodegenerative diseases there is now increasing evidence of alternative roles for amyloids with beneficial aspects for cells In particular prokaryotes use amyloids as functional assemblies where they are key players in the cell s physiology Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Bacterial Amyloids Methods and Protocols is an ideal guide for experts and novices alike to further explore these crucial protein assemblies *The biochemistry of amyloids in neurodegenerative diseases, volume II* Cláudio M. Gomes,Jinghui Luo,Wolfgang Hoyer,2023-07-19

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