
Introduction to Biomolecular Energetics

Including Ligand–Receptor Interactions

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Introduction To Biomolecular Energetics Including Ligand Receptor Interactions Irving Klotz

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Introduction to Biomolecular Energetics Irving Klotz, 2012-12-02 Introduction to Biomolecular Energetics Including Ligand Receptor Interactions focuses on the concepts of energetics and their biological applications including the study of ligand receptor interactions The book provides quantitative calculations and addresses topics that have become more prominent in the biochemical and related sciences in recent years including the first and second laws of thermodynamics the concept of entropy free energy or chemical potential group transfer potential physicochemical behavior and enzyme kinetics This volume is organized into 10 chapters and it begins with an overview of the scope of energetics and two general approaches to the field the classical or phenomenological approach and the statistical molecular approach The chapters that follow explore the concepts of energy and entropy in the context of the first and second laws of thermodynamics along with the relationships between work heat energy and entropy as an index of exhaustion The discussion then shifts to the free energy function and general procedures for computing standard free energies The book also introduces the reader to the fundamental relationship between chemical potential free energy and concentration high energy bond and the concept of group transfer potential the use of thermodynamic methods in the analysis of physicochemical behavior and statistical thermodynamics The final chapter examines the number of ligands that are bound by the receptor entity how strongly the ligands are held and the molecular nature of the forces of ligand receptor interaction This book will be of interest to biologists and those who want to understand the principles of energetics governing biochemical changes **National**

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Bibliography of Agriculture, 1987 **Ligand-Receptor Energetics** Irving M. Klotz, 1997-03-14 A foundation for quantitative perspectives and a framework for interpreting experimental observations Researchers in the life sciences who are unaware of the origins of the fundamental concepts and theoretical constructs in ligand receptor energetics may fail to recognize the hidden assumptions and premises in their interpretations of observed phenomena This book offers a detailed exposition of these fundamentals and of the treatment of multiple equilibria in successive steps of the binding of ligands to receptors It also describes the calculations and meanings of energetic quantities for ligand receptor complexes Ligand Receptor Energetics is the only book on this topic that is both accessible to beginners and extremely useful for experienced investigators It features numerous specific examples tables of literature results extensive up to date thermodynamic data graphical representations of ligand bonding concepts and four helpful appendices Topics covered include Affinities from site

stoichiometric and ghost site perspectives Facts and fantasies from graphical analyses Numerical evaluation of stoichiometric binding constants Affinity profiles Thermodynamic perspectives Forces of interaction Molecular scenarios This valuable supplementary text for students in all areas of the basic life sciences is also an excellent professional reference for researchers in biochemistry molecular biology physiology biophysics microbiology neurobiology immunology pharmacology endocrinology and toxicology Biomolecular Interactions Part A ,2021-10-29 Biomolecular Interactions Part A Volume 166 the latest release in the Methods in Cell Biology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of timely topics in cell biology Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Cell Biology series Updated release includes the latest information on biomolecular interactions instead of protein protein interactions

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