

Molecular Biology Biochemistry and Biophysics

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Ya. A. Vinnikov

Sensory Reception

**Cytology, Molecular Mechanisms
and Evolution**



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**Sensory Reception Cytology Molecular Mechanisms And
Evolution Molecular Biology Biochemistry And
Biophysics Volume 17**

Y.A. Vinnikov



Sensory Reception Cytology Molecular Mechanisms And Evolution Molecular Biology Biochemistry And Biophysics Volume 17:

Progress in Molecular and Subcellular Biology ,2012-12-06 *Quantitative Aspects of Allosteric Mechanisms* A. Levitzki,2013-11-11 The aim of this monograph is to summarize the essential features which characterize the behavior of regulatory systems Firstly we discuss the laws which govern ligand binding in thermodynamic terms The basic cooperative and allosteric phenomena are described in thermodynamic terms without assuming any particular model Then the molecular models developed by Monod Wyman and Changeux and by Koshland Nemethy and Filmer are presented in detail Special emphasis has been given to the analysis of the Hill coefficient and its meaning both in thermodynamic terms and in terms of the two allosteric models the concerted model of Monod Wyman and Changeux and the sequential model of Koshland Nemethy and Filmer Special types of cooperativities are discussed in some detail namely cooperativity stemming from ligand coupled protein association or dissociation negative cooperativity and half of the sites reactivity A slightly extended space was devoted to the discussion of negative cooperativity and half of the sites reactivity since the existence of these phenomena and their possible biological importance is less of a common knowledge than positive cooperativity This monograph does not attempt to be a review of specific examples analyzed according to one model or another Rather an attempt is made to provide the reader with the quantitative tools to analyze any specific regulatory system Last but not least I would like to thank Prof F W Dahlquist from the Institute of Molecular Biology the University of Oregon Eugene and Prof D E Koshland Jr **Molecular Biology, Biochemistry, and Biophysics** ,1986 **Sensory Reception** Iakov Abramovich Vinnikov,Iakov Abramovich Vinnikov,1974 National Library of Medicine Current Catalog National Library of Medicine (U.S.),1971 Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

Chemical Relaxation in Molecular Biology I. Pecht,R. Rigler,2012-12-06 The development of an area of scientific research is a dynamic process with its own kinetic equations and its own physical mechanism The study of fast chemical interactions and transformations is such an area and while it is tempting to draw analogies or to speculate about the simplest model system the lack of adequately averaged observables is an annoying obstacle to such an undertaking Sciences suffering from such conditions usually avoid quantitative models be they primitive or complex Instead they prove their point by case histories Chemical relaxation kinetics started as an offspring of research in acoustics In some aqueous ionic solutions anomalous acoustic absorption had been observed A systematic study traced the cause of this absorption showing that the covered frequency range and the intensity of the absorption were related in a predictable manner to the rate at which ions can interact and form structures differing in volume from the non interacting species The step from this experimental observation and its correct non trivial explanation to the discovery that all fast chemical processes must reveal themselves quantitatively in the relaxation rate of a perturbed equilibrium state and that perturbation parameters other than sound

waves can be used for its exploitation was made by MANFRED EIGEN in 1954 The foresightedness of K F Lampbrush Chromosomes Harold G. Callan,2012-12-06 In 1965 I was asked by Dr Konrad Springer whether I would consider writing a monograph on Lampbrush chromosomes and their physiological meaning and although I accepted in principle I refused to write there and then or to meet a deadline I wanted to continue with my own research and I had other responsibilities that left me with little free time but a much more important consideration was that in the 1960s the subject was beset by a host of unresolved questions I felt that to write a review then would be premature full of speculations many of which would be refuted and indeed were refuted within the next decade or two Had I written at that time the only real advantage over the present would have been that few biologists were studying lampbrush chromosomes and the published literature was therefore scanty I am glad that I insisted on delay and am grateful for Springer Verlag's patient acceptance of my decision The first chapter of this monograph describes the history of research on lampbrush chromosomes from their discovery towards the end of the 19th century until the early 1960s By then several facts concerning their structure and chemistry had been firmly established including the evidence that a lampbrush chromatid is unineme it contains a single uninterrupted DNA duplex This exposed a major problem the C value paradox grades of complexity of organization in eukaryotes are unrelated to their genome sizes *Biochemistry of Taste and Olfaction* Robert Cagan,2012-12-02 Biochemistry of Taste and Olfaction examines the biochemical aspects of taste and olfaction and their relevance to nutrition medicine and food science More specifically it considers the biological processes that influence dietary habits nutritional status and enjoyment of food as well as other important social and biological phenomena It also describes biochemical mechanisms at the peripheral receptor level in taste and olfaction with emphasis on the role of the cell surface along with neurotransmitters and other neurochemical aspects of the olfactory system Organized into five sections comprised of 24 chapters this book begins with an overview of biochemical approaches used in studying the phenomena of taste and olfaction It then proceeds with a discussion of olfactory receptor mechanisms the accessibility of odorant molecules to the receptors the role of cilia in olfactory recognition and the involvement of receptor proteins in vertebrate olfaction Middle chapters focus on the chemosensation major histocompatibility complex and olfactory receptors taste receptor mechanisms biochemistry of sugar reception in insects intensity time phenomena in sugar sweetness and recognition of taste stimuli at the initial binding interaction The reader is also introduced to the physicochemical principles of taste and olfaction molecular mechanisms of transduction in chemoreception biochemical mechanisms in vertebrate primary olfactory neurons neurotransmitter biochemistry of the mammalian olfactory bulb and chemical sensing by bacteria Examples of chemical sensory systems are included This book will be of interest to biochemists physiologists neurobiologists neuroscientists molecular biologists food scientists students and specialists in psychology neurophysiology organic chemistry and nutrition Sensory Reception Y.A. Vinnikov,2012-12-06 This book presents a distillation of many years of investigation by the author and his associates on the

problem of sensory reception Both our own data and data from the scientific literature on the electron microscopy cytochemistry biochemistry and electrophysiology of the organs of vision taste smell hearing and gravitation are presented to show that the evolution of the sense organs of all animals on our planet is based on a receptor cell equipped with a motile antenna a biological recorder of information concerning certain types of energy reaching the animal from the environment The conversion or encoding of this energy into information is effected with the aid of special protein molecules positioned in the plasma membrane of the antennae The action of the unit of energy of a stimulus on such a specific protein molecule causes a change of shape and this is the basis of the trigger mechanism of reception leading to the stimulation of the receptor cell and the transmission of the information encoded in this cell in the form of nerve impulses to the central nervous system The present monograph summarizes over 30 years of working experience by the author and his associates in the field of evolution of sense organs Material is used here from his earlier monographs The Retina of the Eye Vertebrates 1947 The Morphology of the Organ of Smell 1957 The Organ of Corti Its Histophysiology and Histochemistry 1964 written jointly with L K

Secondary Metabolism and Cell Differentiation M. Luckner, L. Nover, H. Böhm, 2013-06-29 1 Secondary Metabolism and Differentiation In addition to the primary metabolic reactions which are similar in all living beings formation and breakdown of nucleic acids and proteins as well as of their precursors of most carbohydrates of some carboxylic acids etc a vast number of metabolic pathways lead to the formation of compounds peculiar to a few species or even to a single chemical race only These reactions in accord with CZAPEK 1921 and PAECH 1950 are summed up under the term secondary metabolism and their products are called secondary metabolites The wide variety of secondary products formed in nature includes such well known groups as alkaloids antibiotics cardiac glycosides tannins saponins volatile oils and others A considerable number of them are of economic importance in therapeutics or technology Although secondary products are produced by microorganisms higher plants and animals cf LUCKNER 1972 most of the substances are found in the plant kingdom The lack of mechanisms for true excretion in higher plants may result in this unequal distribution the waste products of metabolism in plants instead being accumulated in the vacuoles the cell walls or in special excretory cells or spaces of the organism metabolic excretion cf FREY WYSSLING 1935 1970 MOTHES 1966a b 1972 LUCKNER et al 1976 Many secondary substances have however a direct biologic function They can be regulatory effectors e g

Transition Metals in Biochemistry A. S. Brill, 2012-12-06 Transition metal ions in biological systems are of interest in biology biochemistry chemistry medicine and physics Scientists with rather different viewpoints employing many methods have contributed to this area A concise review of the current state of the field will to some extent reflect the special knowledge of the person writing it in this case application of physical methods to the investigation of metal coordination x ray diffraction is one of the most important of these methods but a useful treatment of X ray structure analysis would be comparable in size with and beyond the scope of the monograph Many results of X ray diffraction studies are of course presented Electron

paramagnetic resonance spectroscopy has played a major part in the rapid advance in knowledge of the electronic structures of transition metal ions in biological systems. More generally, measurements involving light, microwaves and magnetic fields are capable of producing much new information and the required instrumentation is available at most research institutions. Therefore, light absorption and paramagnetic resonance are treated in depth. The principles described in the latter discussions are broadly applicable, for example, to the promising techniques of X-ray spectroscopy utilizing synchrotron radiation and lanthanide-perturbed very high resolution nuclear magnetic resonance spectroscopy.

Electrical Potentials in Biological Membrane Transport E. Heinz, 2013-03-08. The material of this volume was originally planned to be incorporated in the preceding monograph *Mechanics and Energetics of Biological Transport*. A separate and coherent treatment of the variety of bioelectrical phenomena was considered preferable, mainly for didactic reasons. Usually, the biologist has to gather the principles of bioelectricity from different sources and on different levels. The present book intends to provide these principles in a more uniform context and in a form adjusted to the problems of a biologist rather than of a physicist or electrical engineer. The main emphasis is put on the molecular aspect by relating the bioelectrical phenomena, such as the membrane diffusion potentials, pump potentials or redox potentials, to the properties of the membrane concerned and as far as possible to specific steps of transport and metabolism of ions and nonelectrolytes. Little space is devoted to the familiar and widely used representation of bioelectrical phenomena in terms of electrical networks of equivalent circuits with batteries, resistances, capacities, etc. In order to elucidate the basic principles, the formal treatment is kept as simple as possible using highly simplified models based on biological systems. The corresponding equations are derived in two ways: kinetically, i.e. in terms of the Law of Mass Action, as well as energetically, i.e. in terms of Nonequilibrium Thermodynamics.

Connective Tissue M.B. Mathews, 2012-12-06. This book deals primarily with the principal extracellular macromolecules of animal connective tissues. It attempts to answer some general questions about the biological organization of the tissues: What is the nature of this organization at various dimensional levels? What functions does the organization serve? How has it evolved? I have given major emphasis to the structures and properties of the macromolecular components of extracellular matrices from a wide range of invertebrates and vertebrates. In doing so, however, I have treated cursorily many important aspects of connective tissue biology that appeared to be only indirectly relevant to the principal questions asked. On the other hand, I have not hesitated to search for broad biological principles outside the prevailing conceptual boundaries of animal connective tissues and the lower molecular dimensional levels. The numerous speculations presented will, I hope, stimulate the reader to further thought and investigation.

Acknowledgements
My previously unpublished data that have been included in this volume could not have been obtained without the generous gifts of specimens and other assistance by a number of individuals and institutions. These are Dr G. BERENSON of Louisiana State University, Drs W. P. BRAKER and D. ZUMWALD of the Shedd Aquarium, Dr S. H. CHUANG of the University of Singapore.

Dr L G CLARK and Mr U M VARELA DIAZ of the University of Pennsylvania the Government of Nicaragua Dr E CLARK of Cape Haze Marine Laboratories Mr C E **Creative Psychotherapy** Eileen Prendiville, Justine Howard, 2016-09-13 Creative Psychotherapy brings together the expertise of leading authors and clinicians from around the world to synthesise what we understand about how the brain develops the neurological impact of trauma and the development of play The authors explain how to use this information to plan developmentally appropriate interventions and guide creative counselling across the lifespan The book includes a theoretical rationale for various creative media associated with particular stages of neural development and examines how creative approaches can be used with all client groups suffering from trauma Using case studies and exemplar intervention plans the book presents ways in which creative activities can be used sequentially to support healing and development in young children adolescents and adults Creative Psychotherapy will be of interest to mental health professionals working with children adolescents and adults including play and arts therapists counsellors family therapists psychologists social workers psychiatrists and teachers It will also be a valuable resource for clinically oriented postgraduate students and therapists who work with victims of interpersonal trauma **Inhibitors of Nucleic**

Acid Synthesis H. Kersten, W. Kersten, 2013-11-11 During the last decade physical and chemical methods have improved rapidly a fact which allowed the mode of action of antibiotics to be studied and many biochemically oriented scientists have devoted their research to the following questions 1 What is the metabolic pathway that is inhibited selectively and what are the target molecules within a sensitive cell 2 What are the relationships between the chemical structure of an antibiotic and the physicochemical properties of the sensitive molecule 3 Why and how far is the action selective 4 Is it possible to correlate the interaction with the target molecule with the particular biological activities observed This monograph deals with those antibiotics which interfere with the biosynthesis of nucleic acids The idea was to provide an insight into how to investigate the preceding questions experimentally and to solve as yet unresolved problems rather than to give a review of the current state of knowledge Although the biochemistry of nucleic acid synthesis is known in general the precise molecular mechanisms by which deoxyribonucleic acid is replicated or transcribed has still to be clarified For this reason it is not yet possible to describe the molecular mechanisms by which the inhibitors of nucleic acid and protein synthesis exhibit their effects The fact that the inhibitors of nucleic acid and protein synthesis themselves served as useful tools to obtain an insight into the mechanisms of replication transcription and translation was one of the most exciting discoveries in this field

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1976 [Federation Proceedings](#) Federation of American Societies for Experimental Biology, 1975 **Sensory Reception** I[A]kov Abramovich Vinnikov, W. L. Gray, Barbara M. Crook, 1974 This book presents a distillation of many years of investigation by the author and his associates on the problem of sensory reception Both our own data and data from the scientific literature on the electron microscopy cytochemistry biochemistry and electrophysiology of the organs of vision taste smell hearing and gravitation are presented to

show that the evolution of the sense organs of all animals on our planet is based on a receptor cell equipped with a motile antenna a biological recorder of information concerning certain types of energy reaching the animal from the environment The conversion or encoding of this energy into information is effected with the aid of special protein molecules positioned in the plasma membrane of the antennae The action of the unit of energy of a stimulus on such a specific protein molecule causes a change of shape and this is the basis of the trigger mechanism of reception leading to the stimulation of the receptor cell and the transmission of the information encoded in this cell in the form of nerve impulses to the central nervous system The present monograph summarizes over 30 years of working experience by the author and his associates in the field of evolution of sense organs Material is used here from his earlier monographs The Retina of the Eye Vertebrates 1947 The Morphology of the Organ of Smell 1957 The Organ of Corti Its Histology and Histochemistry 1964 written jointly with L K *Nasal Tumors in Animals and Man Vol. I* Gerd Reznik, Sherman F. Stinson, 2017-11-22 This Monograph brings together within one cover the current knowledge about tumors of the nasal passages in man in domestic and nondomestic animals and in the rodents which are commonly employed in carcinogenesis studies in the laboratory

Unveiling the Magic of Words: A Review of "**Sensory Reception Cytology Molecular Mechanisms And Evolution Molecular Biology Biochemistry And Biophysics Volume 17**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Sensory Reception Cytology Molecular Mechanisms And Evolution Molecular Biology Biochemistry And Biophysics Volume 17**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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