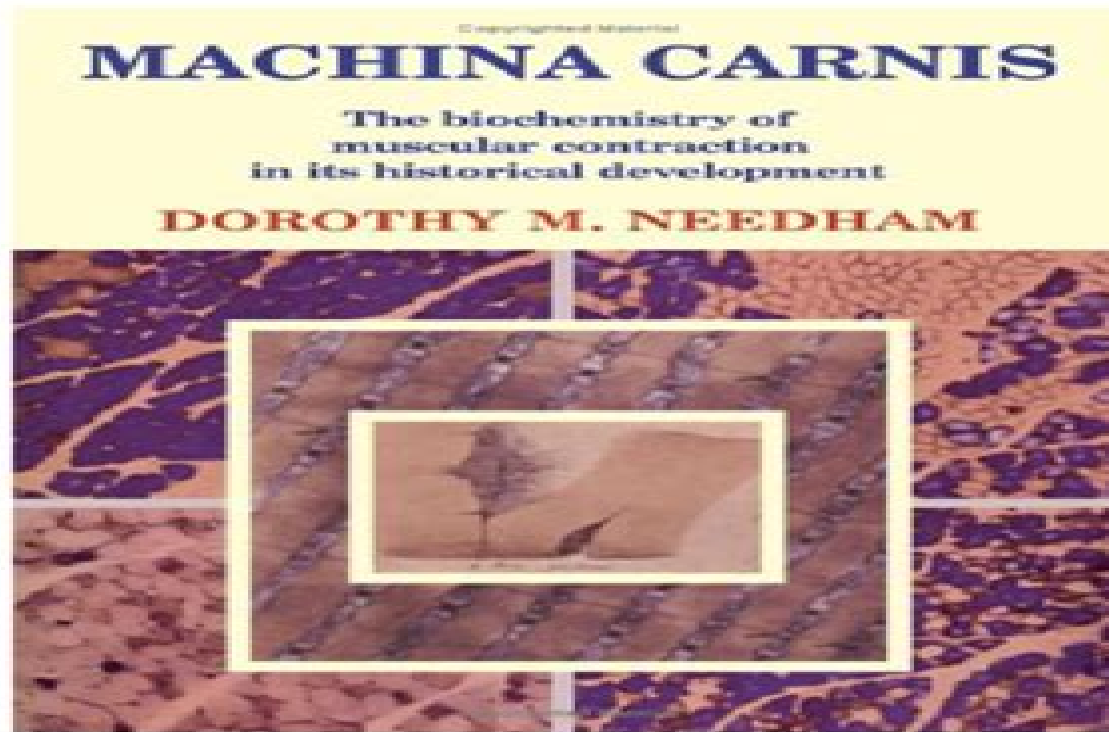


Machina Carnis The Biochemistry of Muscular
Contraction in its Historical Development 1st
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Machina Carnis The Biochemistry Of Muscular Contraction In Its Historical Development

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this volume The chemical and physical properties of proteins will be viewed from the perspective of chemists despite the fact that their use in the food supply emphasizes their biological nature Key topics discussed include proteins as essential to life amino acids protein classification selected proteins of the most important food systems and protein structure The book also includes chapters on protein measurement protein purification and spectral techniques for the study of proteins The book requires readers to have the equivalent of the Institute of Food Technologists requirements for undergraduate food science majors It also assumes a knowledge of math through calculus While primarily intended for senior and first year graduate food science students the text may also be useful to researchers in allied fields Vascular Smooth Muscle Function in

Hypertension Theodora Szasz, Rita C. A. Tostes, 2016-10-23 Hypertension is defined by an increase in systemic blood pressure above limits considered normal currently set at 140 mmHg for systolic and 90 mmHg for diastolic pressure Assuming central venous pressure to be near zero mean arterial pressure is determined by the product of total peripheral resistance and cardiac output In most cases of essential hypertension as well as in animal models of hypertension cardiac output and its main determinants stroke volume and heart rate are normal whereas total peripheral resistance is increased Total peripheral resistance is influenced by a number of factors described by the Poiseuille's law the most significant of which by far is the diameter of blood vessels of the arterial tree Since blood vessel diameter is a reflection of both vascular structure and active regulation of vascular tone through mechanisms of vasoconstriction and vasodilatation it is generally considered that alterations in total peripheral resistance are directly determined by alterations in vascular smooth muscle structure and or function Thus complex blood pressure regulation systems including renal nervous endocrine immune and others in their turn influenced by genetic or environmental factors converge upon the same molecular mechanisms that control the structure and function of vascular smooth muscle In this work rather than providing the exhaustive list of modifications in the blood pressure regulating systems that ultimately affect the vasculature in hypertension we will focus on the structural and functional alterations of vascular smooth muscle per se during hypertension **National Library of Medicine Current**

Catalog National Library of Medicine (U.S.), 1972 First multi year cumulation covers six years 1965-70 Prime Mover: A Natural History of Muscle Steven Vogel, 2003-08-17 The story and the science of nature's greatest engine Whether we blink an eye lift a finger throw a spear or a ball walk run or merely breathe we are using muscle Although muscles differ little in appearance and performance across the animal kingdom they accomplish tasks as diverse as making flies fly rattlesnakes rattle and squid shoot their tentacles Our everyday activities turn on the performance of nature's main engine we may breathe harder going uphill but we put more strain on our muscles walking downhill Those of us who are right handed can tighten screws and jar lids more forcibly than we can loosen them Here we're treated to the story of how form and performance make these things happen how nature does her work Steven Vogel is a leader in the great new field of bioengineering which is rapidly explaining the beauty and efficiency of nature His talents as both scientist and writer shine in

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Membranes to Molecular Machines Mathias Grote, 2019-07-19 Today's science tells us that our bodies are filled with molecular machinery that orchestrates all sorts of life processes When we think microscopic channels open and close in our brain cell membranes when we run tiny motors spin in our muscle cell membranes and when we see light operates molecular switches in our eyes and nerves A molecular mechanical vision of life has become commonplace in both the halls of philosophy and the offices of drug companies where researchers are developing proton pump inhibitors or medicines similar to Prozac Membranes to Molecular Machines explores just how late twentieth century science came to think of our cells and bodies this way This story is told through the lens of membrane research an unwritten history at the crossroads of molecular biology biochemistry physiology and the neurosciences that directly feeds into today's synthetic biology as well as nano and biotechnology Mathias Grote shows how these sciences not only have made us think differently about life they have by reworking what membranes and proteins represent in laboratories allowed us to manipulate life as active matter in new ways Covering the science of biological membranes in the United States and Europe from the mid 1960s to the 1990s this book connects that history to contemporary work with optogenetics a method for stimulating individual neurons using light and will enlighten and provoke anyone interested in the intersection of chemical research and the life sciences from practitioner to historian to philosopher The research described in the book and its central actor Dieter Oesterhelt were honored with the 2021 Albert Lasker Basic Medical Research Award for his contribution to the development of optogenetics

Blood Vessels and Lymphatics in Organ Systems David Abramson, 2012-12-02 Blood Vessels and Lymphatics on Organ Systems provides an introduction to the general and the specific characteristics of blood vessels and lymphatics in organ systems It offers a structured multidisciplinary approach to the broad field of vascular science emphasizing both established and recent concepts These include vascular networks such as those in the pineal parathyroids pancreas adrenals adipose tissue and special senses and functions of vascular endothelium The book is organized into two parts Part One on the general properties of blood vessels and lymphatics deals with the general aspects of the arteries veins microcirculation and lymphatic channels Part Two discusses the embryologic morphologic physiologic pharmacologic pathophysiologic and pathologic characteristics of blood and lymph circulations in each of the important organ systems This book was written for graduate students in the areas of blood and lymph circulation and for advanced research workers or clinicians seeking sources of information on advances in cardiovascular science

Nobel Prizes And Life Sciences Erling Norrby, 2010-09-24 The Nobel Prizes in natural sciences

have developed to become a unique measure of scientific excellence Using archival documents which have been released 50 years secrecy for scholarly work the author expertly traces the strengths and weaknesses of the Nobel system as exemplified by individual prizes Surveys of the more than 100 years that the Prizes have been awarded are also presented This book discusses the most important prize in the world of science and gives unique historical insights into how the laureate selection process has developed to secure optimal choice No other book has been published which draws from previously classified archival materials to the extent that this book does It indirectly deals with factors that foster scientific discoveries viz the role of both individuals and institutions and thus provides invaluable insights for researchers institutions and anyone interested in science

Protein and Energy Kenneth John Carpenter,1994-05-27 The author reviews the long standing debate over the relative merits of a high protein versus a low protein diet At a time when the concern has resurfaced that over consumption of protein in affluent societies may damage health this book provides a fascinating historical perspective

Bibliography of the History of Medicine , In Search of the Physical Basis of Life Gilbert Ling,2012-12-06 It is highly probable that the ability to distinguish between living and nonliving objects was already well developed in early prehuman animals Cognizance of the difference between these two classes of objects long a part of human knowledge led naturally to the division of science into two categories physics and chemistry on the one hand and biology on the other So deep was this belief in the separateness of physics and biology that as late as the early nineteenth century many biologists still believed in vitalism according to which living phenomena fall outside the confines of the laws of physics It was not until the middle of the nineteenth century that Carl Ludwig Hermann von Helmholtz Emil DuBois Reymond and Ernst von Brücke inaugurated a physicochemical approach to physiology in which it was recognized clearly that one set of laws must govern the properties and behavior of all matter living and nonliving The task of a biologist is like trying to solve a gigantic multidimensional crossword fill in the right physical concepts at the right places The biologist depends on puzzle to the maturation of the science of physics much as the crossword solver depends on a large and correct vocabulary The solver of crossword puzzles needs not just a good vocabulary but a special vocabulary Words like inee and oke are vitally useful to him but are not part of the vocabulary of an English professor

Newton's Sensorium: Anatomy of a Concept Jamie C. Kassler,2018-05-08 These chapters analyze texts from Isaac Newton's work to shed new light on scientific understanding at his time Newton used the concept of sensorium in writings intended for a public audience in relation to both humans and God but even today there is no consensus about the meaning of his term The literal definition of the Latin term sensorium or its English equivalent sensory is thing that feels but this is a theoretical construct The book takes readers on a process of discovery through inquiry into both Newton's concept and its underlying model It begins with the human sensorium This part of his concept is situated in the context of the aforesaid writings but also in the context of the writings of two of Newton's contemporaries the physicians William Briggs and Thomas Willis both of whom were at the forefront of their respective

specialties of ophthalmology and neurology Only once the human sensorium has been explored is it possible to generalize to the unobservable divine sensorium because Newton's method of reasoning from experience requires that the second part of his concept is last in the order of knowledge And the reason for this sequence is that his method the short hand term for which is analogy of nature proceeds from that which has been observed to be universally true to that which is beyond the limits of observation Consequently generalization passes insensibly into reasoning by analogy Readers will see how certain widespread assumptions can be called into question such as that Newton was a theological voluntarist for whom the will is superior to the intellect or that for Newton not only the world or universe but also God occupies the whole extent of infinite space The insights afforded through this book will appeal to scholars of the philosophy of science human physiology philosophy of mind and epistemology among others

Hans Krebs Frederic Laurence Holmes,1991-12-05 This is the first volume of a comprehensive scientific biography of Hans Krebs one of the world's foremost biochemists It treats his childhood his medical education and scientific apprenticeship under Otto Warburg his emergence as an independent investigator and his discovery of the urea cycle in 1932 This early achievement and his discovery of the citric acid cycle are viewed as foundations for the modern structure of intermediary metabolism During the writing of this fascinating history the author had access to a complete set of Krebs laboratory notebooks that reveal the daily dimensions of scientific creativity Based in addition on many personal interviews with its subject the Krebs biography is certain to interest and intrigue biochemists and historians of science alike Volume 2 Hans Krebs Architect of Intermediary Metabolism 1933-37 will appear in spring 1993

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