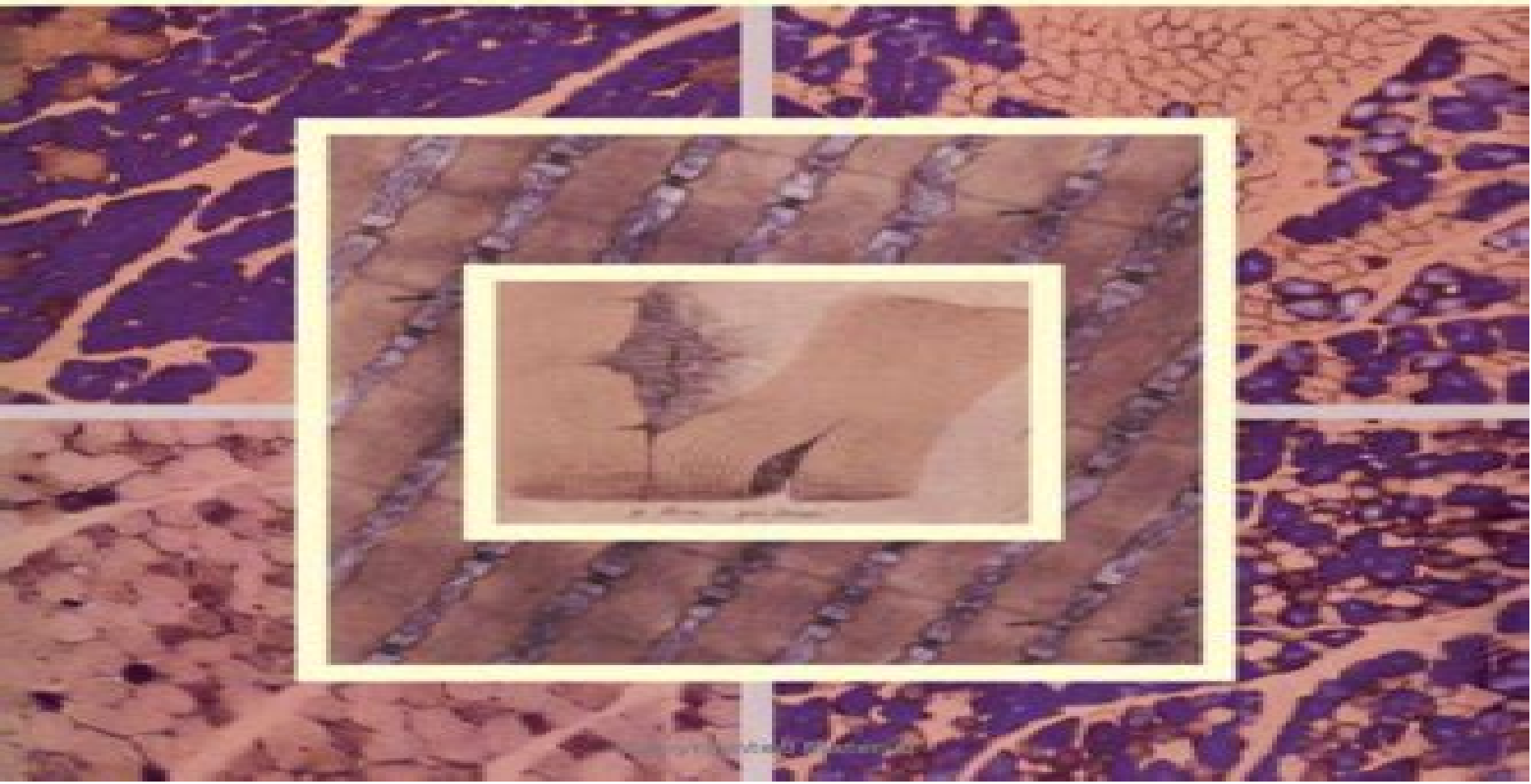


MACHINA CARNIS

The biochemistry of
muscular contraction
in its historical development

DOROTHY M. NEEDHAM



Machina Carnis The Biochemistry Of Muscular Contraction In Its Historical Development

Joe Regenstein



Machina Carnis The Biochemistry Of Muscular Contraction In Its Historical Development:

Machina Carnis Dorothy M. Needham, 1971-11-30 This book is an account of the centuries of experiment and speculation that have led to our understanding of how muscles work *Mechanism of Muscular Contraction* Jack A. Rall, 2014-10-21 This book describes the evolution of ideas relating to the mechanism of muscular contraction since the discovery of sliding filaments in 1954 An amazing variety of experimental techniques have been employed to investigate the mechanism of muscular contraction and relaxation Some background of these various techniques is presented in order to gain a fuller appreciation of their strengths and weaknesses Controversies in the muscle field are discussed along with some missed opportunities and false trails The pathway to ATP and the high energy phosphate bond will be discussed as well as the discovery of myosin contraction coupling and the emergence of cell and molecular biology in the muscle field Numerous figures from original papers are also included for readers to see the data that led to important conclusions This book is published on behalf of the American Physiological Society by Springer Access to APS books published with Springer is free to APS members *Exercise Physiology* Charles M Tipton, 2013-05-27 This history of exercise physiology is written from a systems perspective It examines the responses of key physiological systems to the conditions of acute and chronic exercise as well as their coupling with integrative responses **Chemical History** Gerrylyn K Roberts, Colin A Russell, 2007-10-31 This book provides an historical overview of the recent developments in the history of diverse fields within chemistry It follows on from *Recent Developments in the History of Chemistry* a volume published in 1985 Covering chiefly the last 20 years the primary aim of *Chemical History Reviews of the Recent Literature* is to familiarise newcomers to the history of chemistry with some of the more important developments in the field Starting with a general introduction and look at the early history of chemistry subsequent chapters go on to investigate the traditional areas of chemistry physical organic inorganic alongside analytical chemistry physical organic chemistry medical chemistry and biochemistry and instruments and apparatus Topics such as industrial chemistry and chemistry in national contexts whilst not featuring as separate chapters are woven throughout the content Each chapter is written by experts and is extensively referenced to the international chemical literature *Chemical History Reviews of the Recent Literature* is also ideal for chemists who wish to become familiar with historical aspects of their work In addition it will appeal to a wider audience interested in the history of chemistry as it draws together historical materials that are widely scattered throughout the chemical literature **Food Protein Chemistry** Joe Regenstein, 2012-12-02 *Food Protein Chemistry An Introduction for Food Scientists* discusses food proteins and how they are studied Proteins are both biological entities and physicochemical compounds and they will be examined in both contexts in 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

Landmark Experiments in Protein Science

Pascal Leclair,2023-07-31 Proteins are the workhorses of cells performing most of the important functions which allow cells to use nutrients and grow communicate among each other and importantly die if aberrant behavior is detected How were proteins discovered What is their role in cells How do dysfunctional proteins give rise to cancers Landmark Experiments in Protein Science explores the manner in which the inner workings of cells were elucidated with a special emphasis on the role of proteins Experiments are discussed in a manner as to understand what questions were being asked that prompted the experiments and what technical challenges were faced in the process and results are presented and discussed using primary data and graphs Key Features Describes landmark experiments in cell biology and biochemistry Discusses the How and Why of historically important experiments Includes primary original data and graphs Emphasizes biological techniques that help understand how many of the experiments performed were possible Documents chronologically how each result fed into the next experiments

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 Steven Vogel,2014-08-18 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 this masterful narrative of biological ingenuity as he relates the story and science of nature's greatest engine

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