

ADVANCES IN
EXPERIMENTAL MEDICINE AND BIOLOGY

VOLUME 9

Shock Biochemical Pharmacological And Clinical Aspects

Bruno Volk



Shock Biochemical Pharmacological And Clinical Aspects:

Shock Aldo Bertelli, 1970 **Shock** Aldo Bertelli, 1995-12-31 **Shock: Biochemical, Pharmacological, and Clinical Aspects** Aldo Bertelli, 2013-03-09 Few pathologic phenomena as shock can originate from so many causes and involve so many complex physiologic mechanisms. The complexity of the phenomenon thus has resulted in extensive study and raised many uncertainties. Different conditions such as hemorrhage, trauma, burns, bacterial infection, and anaphylaxis can cause a shock state which initiates a chain of biochemical events that tends to maintain the shock. Recent progress in biochemistry, physiology, and pharmacology has tended to clarify this chain of events and elucidate the possible trigger mechanism. Besides the hormonal and catecholamine involvement, the possible intervention of various protease and lysosomal enzyme systems and kinin release introduces new elements into the characteristic mosaic of the shock state. This International Symposium organized at Lake Como by the Italian Society of Clinical Pharmacology and the International Society of Biochemical Pharmacology is another in a series of symposia under the joint auspices of the School of Pharmacy, State University of New York at Buffalo and the Institute of Pharmacology, University of Milan, Italy. The Symposium has gathered together eminent scientists from such varied disciplines as surgery and pharmacology, internal medicine, and biochemistry, physiology, and pathology, all focusing on the question of shock. The many researchers in these specialties had the possibility of meeting and discussing together in a multidisciplinary fashion the many theories and experiences associated with this problem. **Shock** International Symposium on Shock (1969, Como), 1970 **Shock** Aldo Bertelli, 1970

Current Catalog National Library of Medicine (U.S.), 1979 First multi year cumulation covers six years 1965-70 **Metal Ions in Biological Systems** Sanat Dhar, 2013-03-09 The articles published in this volume are based on the papers delivered at a conference on the Role of Metal Ions in Biological Systems held November 20 and 21, 1972, at Argonne National Laboratory. The purpose of the conference was to present to an interdisciplinary audience of physical scientists some recent developments illustrating the chemical and environmental participation of the heavy metal ions in the biological system. The invited speakers at the conference are specialists in the fields they describe, and the articles presented here are at a level of interest to readers with backgrounds in physical sciences who are not necessarily doing research in the areas described. The articles are referenced through 1972 and in some cases early 1973 and thus should also be of value to research workers. It is hoped that the book will be of particular interest to chemists, biologists, workers in the fields of environmental science and public health, as well as graduate and senior undergraduate students in these disciplines. The conference was sponsored by the Central States Universities, Inc., a consortium of sixteen midwestern universities, the Center for Educational Affairs, Argonne National Laboratory, and the United States Atomic Energy Commission. It is my pleasure to thank the members of the conference committee for their ideas and active help in organizing the conference. *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965-70 The

Artery and the Process of Arteriosclerosis Stewart Wolf, 2013-03-09 Substantial progress toward reconciling disparate theories of the pathogenesis of arteriosclerosis was recorded in Volume I of this book the proceedings of an interdisciplinary workshop conference held at Lindau Germany April 19 25 1970 Strong evidence was adduced that the early stages of arteriosclerosis consist of intimal proliferation similar to that associated with the increase in arterial size and caliber that characterizes normal growth The findings described recall a theory proposed by Richard Thoma Thoma and Kaefer 1889 of Heidelberg toward the end of the nineteenth century He suggested that the pathogenesis of arteriosclerosis began with intimal thickening that was initially adaptive Past a certain point however the thickening compromised the nutrition of the artery wall leading inevitably to degenerative changes In 1944 Hueper Hueper 1944 reemphasized the threat to the nutritional support of the artery and proposed that the many etiologic factors capable of inducing arterial atheroma did so through the final common pathway of interfering with oxidative mechanisms in the vessel wall Thus it is proposed that arteriosclerosis is basically an aspect of the behavior of the artery The nature of the lesion therefore depends more on the biochemical and structural response capabilities of the tissue itself than on the characteristics of the various etiologic agents The idea that arteriosclerosis begins as uncontrolled or disturbed adaptive behavior was shared by Duff and also by Winternitz Duff 1954 Winternitz 1954

Receptors for Reproductive Hormones Bert O'Malley, 2013-11-11 We are especially grateful to Dr Philip Corfman and his colleagues of the Population and Reproduction Grants Branch of NICHD for making this Conference possible The format of this volume follows in general the order in which the papers were presented during the Conference The Conference was divided into four sessions each of which was presided over by a capable and distinguished scientist Each of these chairmen Drs T H Hamilton G A Puca R L Vande Wiele and H G Williams Ashman provided valuable discussion and for their services we are most appreciative The Editors are indebted to Mr Robert Colligan for his help in organizing and in redacting the manuscripts A special commendation is also extended to Ms Mary Jane Fowler who cheerfully and efficiently typed this entire volume Finally we express thanks to the individual participants of the Conference for their cooperation and prompt submission of the manuscripts and to the Plenum Press for ensuring the rapid publication of this volume Anthony R Means Ph D Bert W O Malley M D

Vasopeptides N. Back, 2012-12-06 The dynamic state of developments within the field of the vasoactive polypeptides is reflected in the continuous series of publications appearing on this topic Thus the proposal to convene another symposium only two years after the 1969 Fiesole Symposium Plenum Press 1970 was received enthusiastically and with high expectation Enthusiasm was based undoubtedly in part on meeting together once again in the very pleasant surroundings of Florence with most gracious and enchanting hosts The 25th International Congress on Physiological Sciences held in Munich the following week also provided the impetus for the organization of this satellite symposium on vasopeptides However the accelerated pace of research in the kinin field was the major motivating force for the symposium It was felt necessary to inform each other of the many advances that were taking

place in the varied aspects of this specialized but important field. The role of kinins in both physiologic and pathologic processes still remains to be elucidated definitively. Thus these proceedings contain new and unpublished information on the chemistry, biochemistry, physiology, pharmacology as well as pathophysiology of vasoactive peptides. Recent data on structure-activity relationships of kinin analogues are complemented by a description of radioimmunoassay techniques for kinins and studies on the site of synthesis of substrates for kinin-forming enzymes.

The Reticuloendothelial System and Immune Phenomena N. Di Luzio, 2012-12-06 This volume represents a portion of the Proceedings of the Sixth International Meeting of the Reticuloendothelial Society. There is little question that the University of Freiburg was a most appropriate choice as the site of the meeting since in essence the Society was founded here when Aschoff undertook his classical studies on the macrophage and discovered what may well have been the last remaining biological system. In the approximate fifty years which have elapsed since Aschoff introduced the descriptive term Reticuloendothelial System to unify those cells with the common property of phagocytosis, one finds investigative activity at the highest level in all areas of reticuloendothelial involvement. Indeed the topics covered in the present volume would of necessity require that the common property of phagocytosis which led to the formulation of the reticuloendothelial system be modified. The common basis at the present is clearly no longer phagocytic expression but the unifying basis of host defense. The totality of reticuloendothelial involvement in host defense is clearly reflected by the diverse scientific backgrounds and research interests of the participants of the meeting. Remarkable advances in appreciating the involvement of the RES in maintaining the well-being of the host against a variety of endogenous and exogenous factors have been made since volume I of the *Advances in Experimental Biology and Medicine on the reticuloendothelial system* was published.

Glycolipids, Glycoproteins, and Mucopolysaccharides of the Nervous System V. Zambotti, 2013-03-09 **Functional and Structural Proteins of the Nervous System** A.

Davison, 2013-03-09 This book is the proceedings of two symposia on Proteins of the Nervous System and Myelin Proteins held as part of the Third Meeting of the International Society of Neurochemistry in Budapest, July 1971. If confirmation of the utility for such a book was needed, it was obtained with the independent publication of a review on Proteins of the Nervous System 1 covering essentially the same ground. This review is an excellent collection of the earlier literature. The present volume summarizes the more recent advances in this field and in addition covers those areas: glycoproteins and peptide hydrolases which were not dealt with by Shooter and Einstein 1. We are most grateful to Miss V. Troeger for typing the manuscripts and to Mr. A. Landmann for assistance with photography. A. N. DAVISON, I. G. MORGAN, P. MANDEL, I. SHOOTER, E. M. and E. R. EINSTEIN. *Ann Rev Biochem* 40: 1971: 635.

Sphingolipids, Sphingolipidoses and Allied Disorders Bruno

Volk, 2013-04-17 This text contains the scientific contributions to the Fourth International Symposium on Sphingolipids, Sphingolipidoses and Allied Disorders held at the Kingsbrook Jewish Medical Center on October 25-27, 1971. These meetings were conducted under the auspices of the Isaac Albert Research Institute of the Kingsbrook Jewish Medical Center and the

National Tay Sachs and Allied Diseases Association Inc Four symposia held in 1958 1961 1965 and 1971 were designed to gather the most relevant and innovative of the laboratory and field studies concerned with these hereditary disorders The texts generated by these periodic meetings have mirrored the increasing absorption of the scientific community in the problems of sphingolipid metabolism The first meeting in 1958 consisted of but twelve pre sentations the majority emanating from local laboratories The current sessions contain 48 scientific presentations by scientists from nine countries and demonstrate the increas ingly diversified techniques and approaches employed in the study of these diseases Many of the authors in exploring data on the mucopolysaccharidoses and leucodystrophies as well as the sphingolipidoses have given recognition to those biochemical areas held in common by these otherwise diverse disease processes The problems of prevention and therapy of these diseases have been considered by some of the contributors Laboratory screening procedures designed to detect carriers of the va rious lipidoses are now available and the experiences of some laboratories in this area are summarized within this volume The prospective identification of heterozygotes may indeed become a powerful adjunct in genetic counseling

Comparative Pathophysiology of Circulatory Disturbances Colin Bloor, 2012-12-06 The biomedical community often complains of the crowded schedule of important meetings to be attended It was thus with some reser vations when the individuals participating in this conference accepted the invitation to attend a small gathering to discuss the Comparative Pathophysiology of Circulatory Disturbances held over three days in November 1971 At the end of it they had changed their minds and were enthusiastic over the wisdom to hold meetings of this kind The conference was conceived some years earlier when it was apparent to the conveners that little opportunity exists in the common mammoth meetings to exchange detailed information and p haps more importantly to transmit points of view between scientists of different disciplines In particular the voice of veterinarians and comparative biologists is not often heard by medical investigators and vice versa Thus many animal models exist in nature whose investigative exploitation might make important contributions to an understanding of human disease yet they are unknown to medical scientists Conversely veterinarians are often not aware of the needs of such models and their recognition is often delayed unduly This conference attended by investigators of various back grounds was called to help correct these deficiencies at least in a small segment of study that concerned with circulatory pathophysiology

Bradykinin and Related Kinins F. Sicuteri, 2012-12-06 At the turn of the present century researchers recognized that damaged tissue released chemical agents capable of causing catastrophic effects on the whole organism upon entering the blood stream Following the discovery of histamine these agents at first seemed identifiable with biogenic amines However very soon after the development of highly selective antagonists little responsibility was ascribed to the amines and the tissue factors were wrapped once again in mystery One can imagine perhaps and envy the fascinating moments experienced by the pioneers in the kinin field when they realized that plasma had an enormous store of principles endowed with biologic activity practically indistinguishable from histamine possessing a complex turnover and regulated by

obscure biochemical mechanisms Like other biochemical eras the era of the kinins was opened by a pioneer stage exceptionally long and exciting After years of arduous isolation researchers realized that kinins may not only be the key to unlocking the mystery of histamine like substances but also may open the way to understanding other basic problems in pathology possibly associated with tissue factors The Symposium held at Fiesole could be regarded as a balance sheet representing the climax of the initial revolutionary stage and the beginning of the evolution stage Research is all the more successful if supported by its development and application of kinins to pathology with hesitation and apprehension even with diffidence but then with ever increasing enthusiasm and persuasion identified those areas of human pathology in which pathogenetic implications of the system are to say the least attractive Perhaps the most interesting characteristic of the Fiesole Symposium really was the grafting of the human kinin stage onto the biological and experimental stages Thus new light is shed on basic problems involving the pathology of man as shock angioneurotic edema uratic arthritis intracranial hemorrhage and acute local and general reactions to thermal mechanical and infectious assaults It is with a certain degree of emotion that we now reconsider those terms and phenomena we were accustomed to seeing only from a cold biochemical point of view such as the Hageman factor the kallikrein inhibitor and the permeability factor under the warm light shed by the sufferings of man This warmth typical of human investigation homogenized by the severity of experimental research has contributed in making the scientific sessions more lively and above all in creating the spontaneous and friendly atmosphere prevailing at Fiesole A further contribution was the striking contrast as harmonious as a musical counterpoint afforded by the amazing science fiction like adventure in space which ended happily during the Symposium and the stern walls of Castel di Poggio at Fiesole and the supremely serene beauty of the Etruscan landscape The sociability and friendliness of all the participants helped to overcome technical difficulties encountered during the Symposium Members of the Organizing Committee in particular Professors Rocha e Silva Giotti Keele Armstrong Back and Secretaries Franchi Fanciullacci and Siddel all helped generously Valuable support both moral and material was offered by the Ministero della Sanita by the Consiglio Nazionale delle Ricerche by the young but energetic Societa Italiana di Farmacologia Clinica and by the Brazilian Society of Pharmacology and Experimental Therapeutics The Fiesole Town Council and the Mayor Mr Adriano Latini offered their warm and friendly hospitality even placing Castel di Poggio at our disposal The technical manager Dr Buongiorno informally and skillfully overcame all difficulties and met all emergencies thus attaining the success of the Symposium similar to that held in Florence in 1965 Hemoglobin and Red Cell Structure and Function George Brewer, 2013-03-08

Hemoglobin and the red cell have continued to set a dizzying pace as the objects of research in the two and one half year interval since the First International Conference on Red Cell Metabolism and Function Most exciting perhaps is a beginning molecular attack on sickle cell disease The story of the inter action of red cell metabolism and oxygen transport has continued to unfold and we can now infer that patients with hypoxia usually utilize red cell metabolic adjustments to improve

oxygenation This puts the red cell squarely in the center of medical practice since much of medicine heart pulmonary and blood disease deals with inadequate oxygenation On April 27th through the 29th 1972 crystallographers chemists biochemists physiologists geneticists and physicians from many medical disciplines met in the Towsley Center for Continuing Medical Education at the University of Michigan Ann Arbor to present new data to review recent developments and to try to piece together additional features of the red cell puzzle The meeting was dedicated to Dr Francis John Worsley Roughton Professor Emeritus of Colloid Science University of Cambridge England in recognition of his numerous excellent contributions to the understanding of hemoglobin and red cell function The program got off to a good start with a paper from M F Perutz Nobel Laureate on the structure of hemoglobin Dr **Pharmacological Control of Lipid Metabolism W. Holmes**, 2013-06-29 This Symposium was the fourth in a series which began in Milan Italy in 1960 Each meeting has introduced or developed some new concepts in the areas of lipid metabolism and drugs The meetings have served as a springboard for new ideas which have between meetings become accepted and exploited This meeting has been no exception Principal among the many new concepts discussed were lipoprotein synthesis and metabolism apoprotein structure and function whole body metabolism of cholesterol and aspects of myocardial and aortic metabolism The Symposium also included a summary of current thought on management of hyperlipemias and atherosclerosis Data on more than 30 drugs were introduced and discussed We have every expectation that the next Symposium will include material which is now only in the formative stage The Organizing Committee would like to acknowledge the invaluable assistance of Miss Mary Constant Mr Ralph H Hollerorth Mrs Carolyn P Hyatt and Miss Jane T Kolimaga whose efforts contributed significantly p

Membrane-Bound Enzymes Giuseppe Porcellati, 2013-11-11 The present volume contains all the papers presented at the International Conference on Membrane Bound Enzymes held at Pavia in May 1910 The publication of its scientific content has been made possible by the collaboration of many scientists who have taken part at the Symposium and who deeply and actively discussed the lectures which were delivered In order to ensure rapid publication however the discussion will not be reported here The general subject of membrane bound enzymic activity its behavior localization and regulation was explored in depth from the standpoints of the various contributors in biophysics biochemistry cytology and pharmacology Each session was briefly introduced by the session chairman's remarks about the field under discussion At the end of the Conference Dr R M C Dawson made some concluding remarks The meeting is considered to have been very successful It certainly gave a further stimulus to biochemical and physiological research workers in this field of study The editors express their thanks to the authors of the papers and to the Plenum Publishing Corporation for the prompt response which has enabled the rapid publication of the volume and to the auditorium of the meeting which was attended by more than one hundred research workers concerned with the problems of membrane biology We are happy to acknowledge the financial support of various organizations which have been listed in another part of this book

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