

ADVANCES IN
EXPERIMENTAL MEDICINE AND BIOLOGY

VOLUME 9

Shock Biochemical Pharmacological And Clinical Aspects

Bert O'Malley



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 enzymes, 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 National Library of Medicine Current Catalog National Library of Medicine (U.S.),1971 First multi year cumulation covers six years 1965-70 **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 reticulo endothelial system was published **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 con o vene 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 impor tant field o The role of kinins in both physicologic and pathologic processes still remains to be elucidated definitively Thus these proceedings contain new and unpublished informa tion on the chemistry biochemistry physicology pharmacology as well as pathophysiology of vasopeptides Recent data on tructure 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 **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 meetingsof 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 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

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

The Dynamics of Meristem Cell Populations M. Miller,2012-12-06 These proceedings are composed of three parts 1 the individual papers 2 their discussions and 3 a retrospective summation of the meetings deliberations If we were to suggest a starting place for reading it would probably be the summation it attempts to place the various papers and discussions into a general context and to point out relevant ideas of current knowledge and of potentially useful avenues for further research The papers and discussions deal more specifically with the individual topics It is hoped that the tone and tenor of the meeting are somewhat reflected in its proceedings The emphasis today in biological research is quite ecumenical in outlook in that often techniques and conclusions from one discipline have relevance and applicability to another For example the elucidation of the DNA synthetic stage during interphase was first accomplished with botanical material this technique has since had a broad and significant role in medical research Also the pioneering and now classical studies regarding the effects of ionizing radiation on plant chromosomes were and still are the foundation for studying mammalian chromosomes it required only the discovery of a hypotonic medium to achieve spreading of them so that similar types of analyses were possible Plants and plant cells have many unique features which allow them to be useful either for the study of specific botanical problems or for studying broad biological principles

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.

Alcohol Intoxication and Withdrawal I Milton M. Gross, 2013-03-13 The contributions to this volume clearly indicate the momentum quality liveliness and diversity of the research effort being directed toward deepening our understanding of the alcohol withdrawal syndrome. This area of study has gained increasing interest and attention to the point where it seemed reasonable to devote a special section to it at the 30th International Congress for Alcoholism and Drug Dependence in Amsterdam in September 1972. Our goal was to share our most recent findings and stimulate others to join in the effort. With few exceptions the papers in this publication present new data. It had been hoped that the volume would appear by the end of 1972. However the eagerness of many of the contributors to extend their investigations made this target date impossible. Several of the papers were not presented in the section but were presented elsewhere in the Congress. However because of their particular relevance to the topic they have been included with the generous consent of the authors.

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 presentations the majority emanating from local laboratories. The current sessions contain 48 scientific presentations by scientists from nine countries and demonstrate the increasingly 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 various 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

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 Famacologia 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 **Chemistry and Brain Development** Rodolfo Paoletti, 2012-12-06 J Folch Pi Director of Scientific Research McLean Hospital Belmont Mass U S A The development of the central nervous system is possibly the most significant aspect of the growth of a mammal from embryo to adulthood The central nervous system is obviously the main repository not only of the species inherited functional characteristics but also of the process of individuation Whatever engrams constitute the basis of individual characteristics are laid down mainly in the central nervous system and especially the brain during its growth The chemical aspect of this process IS clearly of great importance and the significance of its study should be self evident Nevertheless it is only one aspect of a parel lei series of morphological physiological biochemical and psychological events which take place as an integrated process the final result of which is the transformation of the post embryonic nervous system into the functioning adult system It is imperative therefore that any study or description of the chemical events during the development of the CNS should be undertaken in ful I awareness of the concomitant morphological physiological and psychological events It is only against this multidisciplin ary informational framework that

the chemical events during 2 J FOLCH PI development can be correctly interpreted and acquire their full significance. With this in mind the introduction to this volume may best serve its purpose by describing briefly the morphological and physiological events that accompany the chemical aspect of development.

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 1 SHOOTER E M and EINSTEIN E R Ann Rev Biochem 40 1971 635

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