

ANNALS OF THE
NEW YORK ACADEMY OF
SCIENCES

VOLUME 308

SEROTONIN NEUROTOXINS



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PUBLISHED BY THE NEW YORK ACADEMY OF SCIENCES
ROSEMEAD, NEW YORK

Serotonin Neurotoxins

Richard M. Kostrzewa



Serotonin Neurotoxins:

Botulinum and Tetanus Neurotoxins B.R. DasGupta, 2013-11-11 Three days in Madison have thoroughly modified my view on clostridial neurotoxins While still realizing the numerous activating modifying and protective inputs I cannot judge the meaningfulness of the meeting impartially Neither may the reader expect a complete summary of all presentations Collected in this volume they speak for themselves without requiring an arbiter Instead I shall write down my very personal opinions as a researcher who has studied clostridial neurotoxins for nearly 25 years Comparable conferences have been rare during this time A comprehensive symposium 4 on C botulinum neurotoxins has been organized at Ft Detrick International conferences on tetanus have been held regularly under the auspices of the World Health Organization One or maximally two days of these meetings have been devoted to tetanus toxin and its actions whereas the sponsor and the majority of the participants have been interested mainly in epidemiology prevention and treatment of tetanus as a disease see refs 5 6 Some aspects of clostridial neurotoxins have been addressed in the context of bacterial toxins in particular in the biennial European workshops 1 3 7 8 The Madison meeting differed from the previous ones in three aspects First it covered both tetanus and botulinum neurotoxins The fusion was justified because of their huge similarities in primary structure in their mode of action and in their cellular targets Second the meeting was not limited to toxins but drew some lines on which modern neurobiology might proceed Highly Selective Neurotoxins Richard Kostrzewa, 1997-10-30 Expert researchers critically review and evaluate the most common and important neurotoxins used today in neuroscience research Each informative chapter thoroughly describes the significant mechanisms of action of a neurotoxin as well as fully discussing the limits on their use and their clinical applicability Several clinically oriented chapters are significant for neurologists treating Parkinsonism for psychiatrists treating drug abuse and neurodegenerative disorders and for primary care physicians treating patients with appetite suppressants Highly Selective Neurotoxins provides all the basic knowledge needed to obtain a predictable experimental outcome with these neurotoxins **Handbook of Neurotoxicity** Richard M. Kostrzewa, 2023-01-02 This handbook is a reference source for identifying characterizing instructing on use and describing outcomes of neurotoxin treatments to understand mechanisms associated with toxin use to project outcomes of neurotoxin treatments to gauge neurotoxins as predictors of events leading to neurodegenerative disorders and as aids to rational use of neurotoxins to model disease entities Neuroprotection is approached in different manners including those 1 afforded by therapeutic agents clinical and preclinical or 2 by non drug means such as exercise The amorphous term neurotoxin is discussed in terms of the possible eventuality of a neuroprotectant producing an outcome of excess neuronal survival and a behavioral spectrum that might produce a dysfunction akin to a neurotoxin's effect This new edition significantly expands on the information provided in the first edition providing the latest research in neurotoxicity and highlighting the relationship between specific neurotoxins and the neurodegenerative disorders they can cause It also includes new sections on the neurotoxicity of heavy

metals fungi and snake venom The Handbook of Neurotoxicity is thus an instructive and valuable guide towards understanding the role of neurotoxins neurotoxicity in the expansive field of Neuroscience and is an indispensable tool for laboratory investigators neuroscientists and clinical researchers Handbook of Neurotoxicology Edward J. Massaro, 2002-03-20 Neurotoxicology is a broad and burgeoning field of research Its growth in recent years can be related in part to increased interest in and concern with the fact that a growing number of anthropogenic agents with neurotoxic potential including pesticides lead mercury and the polytypic byproducts of combustion and industrial production continue to be spewed into and accumulate in the environment In addition there is great interest in natural products including toxins as sources of therapeutic agents Indeed it is well known that many natural toxins of broadly differing structure produced or accumulated for predatory or defensive purposes and toxic agents accumulated incidentally by numerous species function to perturb nervous tissue Components of some of these toxins have been shown to be useful therapeutic agents and or research reagents Unfortunately some neurotoxicants of anthropogenic origin unfortunately the environmental accumulation of especially pesticides and metals has resulted in incidents of human poisoning some of epidemic proportion and high levels of morbidity and mortality Furthermore an increasing incidence of neurobehavioral disorders some with baffling symptoms is confronting clinicians It is not clear whether this is merely the result of increased vigilance and or improved diagnostics or a consequence of improved health care In any case the role of exposure to environmental and occupational neurotoxins in the etiology of these phenomena as well as neurodegenerative diseases is coming under increasing scrutiny and investigation

Selective Neurotoxicity Hans Herken, Ferdinand Hucho, 2012-12-06 Following the overwhelmingly successful response to the first printing in hardcover the hottest topics in Selective Neurotoxicity are now available in this special softcover edition Researchers are provided with well grounded information on the cellular and subcellular targets of neurotoxins and their mode of action at the level of ion channels receptors and neurotransmitters The use of bacterial toxins as a tool in neuroscientific research is an important aspect in this context The chapters that interest clinicians as well deal with protective barriers in the peripheral and central nervous system and metabolic disorders that cause neurotoxins to be built up in the human body The induction of tumors by neurotropic carcinogens is included **NIDA Research Monograph**, 1976 Role Of Serotonin In Psychiatric Disorders Serena-Lynn Brown, Herman M. Van Praag, 2023-01-06 This is No 4 of a monograph series on Clinical and Experimental Psychiatry which aims to keep track of important developments in Psychiatry to summarize what has been achieved in particular fields and to bring together the view points obtained from disparate vantage points to capture some of the excitement ongoing in modern psychiatry both in its clinical and experimental dimensions This edition looks the role of Serotonin in Clinical Psychiatric Research *Serotonin: Molecular Biology, Receptors and Functional Effects* FOZARD, SAXENA, 2012-12-06 The Second IUPHAR Satellite Meeting on Serotonin was held under the auspices of the Serotonin Club in Basel Switzerland in July 1990 The scope was wide ranging from molecular biology through

in vitro and in vivo pharmacology to new drug tools and their clinical significance There were three invited review lectures by J M Palacios D I Wallis and A Kaumann and S Peroutka gave the first Serotonin Club Irvine H Page Lecture The rest of the oral programme was put together by the Scientific Organizing Committee based on volunteered research contributions The invited review lecturers the platform speakers and selected poster contributors were invited to write up their contributions for inclusion in this volume Most complied and this book is the result of their efforts When instructing the authors prior to the meeting we emphasized that selected new data should be put in the context of the literature findings In this way we hoped to achieve topicality yet preserve the review perspective which facilitates its appreciation by the non specialist It was truly a pleasure to read the interesting papers which resulted and to prepare them for publication We believe they convey to a remarkable degree the spirit of what was generally felt to be a highly stimulating exchange of information on matters serotonergic which took place in Basel last July

Substance Abuse Joyce H. Lowinson, 2005 The premier text on substance abuse and addictive behaviors is now in its updated and expanded Fourth Edition with up to the minute insights from more than 150 experts at the front lines of patient management and research This edition features expanded coverage of the neurobiology of abused substances new pharmacologic therapies for addictions and complete information on club drugs such as Ecstasy New sections focus on addiction in children adolescents adults and the elderly and women's health issues including pregnancy The expanded behavioral addictions section now includes hoarding shopping and computer Internet abuse Includes access to a Companion website that has fully searchable text

Pharmacology and Toxicology of Amphetamine and Related Designer Drugs Khursheed Asghar, Errol B. De Souza, 1989 This monograph is based upon papers and discussions from a technical review on pharmacology and toxicology of amphetamine and related designer drugs that took place on August 2 through 4 1988 in Bethesda MD The review meeting was sponsored by the Biomedical Branch Division of Preclinical Research and the Addiction Research Center National Institute on Drug Abuse

Neurotoxins and Neurodegenerative Disease James William Langston, Anne B. Young, 1992 The use of neurotoxins as tools to study neurodegenerative disorders is explored by both basic and clinical scientists in this text The emphasis is on whether or not exogenous or endogenous neurotoxins may be part of the natural etiology of neurodegenerative disorders An in depth analysis of the potential mechanism of action of various neurotoxins including MPTP methamphetamine kainic acid and several other excitotoxins and the cholinergic neurotoxin AF 64A is featured

Toxin-Induced Models of Neurological Disorders A.J. Nonneman, M.L. Woodruff, 2013-11-11 This volume discusses and evaluates the use of neurotoxins to produce animal models of human neurodegenerative diseases The models presented use neurotoxins to induce some or most of the pathophysiological changes including behavioral that characterize the most studied motor neuron disorders and cognitive disorders dementia in humans Within the biomedical research community there is little doubt about the utility of such models But with increasing frequency individuals concerned with animal rights question the validity of such models and argue that

they actually produce no useful information for understanding or developing treatments for human disorders Each of the chapters will address this issue considering the utility validity generalizability and limitations of the models presented Chapter 1 begins with a brief review of the ethics of animal use in neuro biological research including a discussion of the criteria that may be used to evaluate animal models of human disease and extrapolate from the model to appropriate questions regarding humans The limitations of such extrapolation are also discussed with special consideration of issues specific to the use of neurotoxins Chapter 2 extends this theme with further consideration of issues and strategies involved in developing neurotoxin induced models of neuro degenerative disorders and assessing risk factors associated with neurotoxin exposure It then narrows to evaluate the use of a model systems approach to explore neurotoxin induced learning and memory deficits in animals as related to humans with dementia

Serotonin Bernard Haber, 2012-12-06 The vast growth of knowledge in recent years concerning the functional role of serotonergic systems in central nervous system function prompted the organization of the symposium The organizing committees felt at the onset that the field of serotonin research had grown so rapidly that it would be impossible to cover every aspect of it in individual symposia Thus it was felt that certain areas of research had to be omitted due to time constraints and we extend an apology to the researchers in areas not included in these proceedings Rather it was hoped to provide a balance overview of the field starting with the anatomy of serotonergic systems and proceeding to the level of the serotonergic receptors at the cell membrane and then inside the neuron to discuss the regulation of serotonin biosynthesis and integration within indoleamine systems The functional aspects of serotonergic transmission focused on the emerging role of this amine in the processing of nociceptive information singly or in tandem with other neurotransmitters or neuromodulators A separate symposium dealt with a variety of animal models suitable for the analysis of the role of serotonin in behavior and finally led to the evaluation of serotonin metabolism in the study of abnormal human behavior The editors would like to dedicate these proceedings on Serotonin Current Aspects of Neurochemistry and Function to two pioneers in this field Dr Irving Page and Dr Maurice Rapport

5-HT Interaction with Other Neurotransmitters: Experimental Evidence and Therapeutic Relevance Part B, 2021-03-26 The Progress in Brain Research series highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Covers all key aspects of current research on 5 HT interaction with other neurotransmitters Provides extensively referenced chapters thus giving readers a comprehensive list of resources on topics covered Includes comprehensive and in depth background information written in a clear form that is accessible to both specialists and non specialists

Psychopharmacology Bulletin, 1980 **Cumulated Index Medicus**, 1977

Mechanisms of Drug Action G.N. Woodruff, 1986-06-18 *Neurotransmitter Receptors in Actions of Antipsychotic Medications* Michael S. Lidow, 2000-06-22 Years of extensive investigation into neurophysiology neurochemistry and behavioral pharmacology have produced an understanding of antipsychotic medication action that is much more refined than

the original dopamine hypothesis New perspectives offer an array of novel drugs drugs that pose a lower risk of developing tardive dyskinesia have few *Extinction Learning from a Mechanistic and Systems Perspective* Denise

Manahan-Vaughan, Onur Gunturkun, Oliver T. Wolf, 2016-08-08 Throughout their lifetime animals learn to associate stimuli with their consequences Following memory acquisition and consolidation circumstances may arise that necessitate that initially learned behaviour is no longer relevant The ensuing process is called extinction learning and involves a novel and complex learning procedure that involves a large number of neural entities While the neural fundamentals of the initial acquisition are well studied our understanding of the behavioural and neural basis of extinction is still limited and derives mostly from rodent data acquired through fear conditioning paradigms Fear conditioning and extinction in rodents is a spectacularly successful paradigm within behavioral neuroscience However in recent years new approaches have been emerging that examine the mechanisms of extinction learning in different setting that also involve appetitive models a broader comparative perspective a focus on other brain systems an examination of hormonal factors and conditioning of immune responses Only a broader analysis of the neural fundamentals of extinction learning will finally uncover shared and distinct mechanisms that underlie extinction learning in different functional systems The papers compiled in this Research Topic offer new and valuable insights into the mechanisms and functional implementation of extinction learning at its different levels of complexity and form the basis for new concepts and research ideas in this field *The Effects of Drug*

Abuse on the Human Nervous System Bertha Madras, Michael Kuhar, 2013-11-15 Drug use and abuse continues to thrive in contemporary society worldwide and the instance and damage caused by addiction increases along with availability The Effects of Drug Abuse on the Human Nervous System presents objective state of the art information on the impact of drug abuse on the human nervous system with each chapter offering a specific focus on nicotine alcohol marijuana cocaine methamphetamine MDMA sedative hypnotics and designer drugs Other chapters provide a context for drug use with overviews of use and consequences epidemiology and risk factors genetics of use and treatment success and strategies to screen populations and provide appropriate interventions The book offers meaningful relevant and timely information for scientists health care professionals and treatment providers A comprehensive reference on the effects of drug addiction on the human nervous system Focuses on core drug addiction issues from nicotine cocaine methamphetamine alcohol and other commonly abused drugs Includes foundational science chapters on the biology of addiction Details challenges in diagnosis and treatment options

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