



modern
pharmacology—toxicology
volume 12

noncatecholic phenylethylamines

part 2
phenylethanolamine, tyramines,
and octopamine

edited by ARON D. MOSNAIM and MARION E. WOLF

Noncatecholic Phenylethylamines

Michal Rosen-Zvi



Noncatecholic Phenylethylamines:

Separation Methods Z. Deyl, 2011-09-22 Separation Methods

Neuropsychopharmacology of the Trace Amines

Alan A. Boulton, Peter R. Bieck, L. Maitre, P. Riederer, 2012-12-06 A probable neurobiological role for the trace amines began to emerge as soon as techniques sufficiently sophisticated to detect them were developed. Techniques for quantitative analyses included radioenzymatic procedures and more recently HPLC, EC and automated GC/MS. The methods are applied after separation of the substances to be analyzed and after their purification by physicochemical procedures that are becoming more and more efficient. The identification and quantitative analysis of minute amounts of trace amines in biological fluids or tissues is in itself a remarkable technological achievement. The enormous task that several teams of research workers have set themselves is to investigate the origin of the trace amines to understand their metabolism and to discover whether or not they possess an important biological role. The 2nd Trace Amines Symposium at Weitenburg Castle near Tübingen from the 15th to the 19th May 1985 was held to gain a somewhat clearer insight into the present state of knowledge. Since the first meeting in 1983, our knowledge has increased and interest is deepening. Hence the idea proposed at that first meeting of organizing similar gatherings at regular intervals has come to fruition. Covered in the Neuropsychopharmacology section of this book are studies of the effects of certain trace amines on different forms of behavior on neurotransmission mediated by the classical neurotransmitters on their biosynthesis or on catabolism on their possible occurrence as a result of alternative metabolic pathways for the amino acids and in some instances their neuroanatomical distributions.

Neurobiology of the Trace Amines Alan A. Boulton, Glen B. Baker, William G.

Dewhurst, Merton Sandler, 2013-03-12 Many of the trace amines more correctly called biogenic amines have been known for decades but because of their tiny concentrations (0.01–100 ng/g in brain) it was only after the development of sophisticated analytical techniques such as mass spectrometry that they could be identified and quantitated in nervous tissue. There are now more than 20 of them and most are related to the catecholamines and 5-hydroxytryptamine both structurally and metabolically. Their pharmacological and physiological properties make them prime candidates for a transmitter or neuromodulator role and many of them elicit profound behavioral syndromes after injection; one of them, phenylethylamine, has even been referred to as 'nature's amphetamine'. In the clinical sphere several have been shown to be involved in Parkinsonism, schizophrenia, depression, agoraphobia, aggression, hyperkinesia, migraine, hypertensive crises, hypertyrosinemia, hepatic encephalopathy, epilepsy and cystic fibrosis. Thus the research reported here on these intriguing new substances will be of great interest to psychiatrists, neurologists, biochemists, pharmacologists, physiologists, psychologists, behaviorists and indeed to all those working in the neurosciences and related fields today.

ACKNOWLEDGMENTS This book is based on the proceedings of Trace Amines and the Neurosciences, a meeting held at the University of Alberta, Edmonton, July 19–21, 1983. This meeting was organized as a Satellite Meeting of the Ninth Meeting of the International Society for Neurochemistry held

in Vancouver July 10 15 1983 International organizers of the satellite meeting were Drs A A Boulton Saskatoon W G Dewhurst Edmonton G B Baker Edmonton and M Sandler London

The alpha-1 Adrenergic Receptors Jr. Ruffolo, 2012-12-06 During the past decade great strides have been made in our understanding of the biochemistry and pharmacology of the alpha 1 adrenergic receptor The alpha 1 adrenergic receptor plays a key role in biological function This is evidenced by the fact that the alpha 1 adrenergic receptor plays a prominent functional role in most organs of the body and in the key systems responsible for survival of the organism and maintenance of optimum biological activity This is most apparent in the cardiovascular system in which alpha 1 adrenergic receptors are the single most important receptor involved in the maintenance of blood pressure and circulatory function It is appropriate therefore that recent findings related to the pharmacology and biochemistry of the alpha 1 adrenergic receptor be compiled since this subject has not been reviewed in detail in recent years It is the purpose of this book to present a series of reviews of key experimental findings that shed new light on the alpha 1 adrenergic receptor and the manner in which it functions Classically most receptors have been characterized based on structure activity relationships obtained for selective agonists and antagonists interacting with the receptor Although there are many newer and more sophisticated approaches to receptor characterization structure activity relationships still provide important information regarding the chemical requirements made by the receptor for its occupation by ligands and its subsequent activation by those ligands possessing intrinsic efficacy and therefore agonist activity

Methods in Neurotransmitter and Neuropeptide Research S.H. Parvez, M. Naoi, T. Nagatsu, 2013-10-22 This two part book provides the most advanced biochemical and histochemical analytical methods on neurotransmitters neuromodulators and neuropeptides described by international specialists The biochemical methods include liquid chromatography electrochemistry liquid chromatography fluorescence and chemiluminescence detection gas chromatography or liquid chromatography with mass spectrometry and immunoassays Morphological and physiological methods are also described including immunohistochemistry in situ hybridization in vivo microdialysis electrophysiological analysis microwave irradiation electrophysiological analysis micro anatomical dissection peptide sequence analysis quantitative autoradiographic analysis and isolated CNS preparations The neurotransmitters and neuropeptides include catecholamines indoleamines histamine polyamines and various neuropeptides and their related enzymes The book is the most comprehensive advanced and versatile volume on the biochemical morphological and physiological analysis of neurotransmitters and neuropeptides

Handbook of Drug Metabolism, Third Edition Paul G. Pearson, Larry C.

Wienkers, 2019-05-20 This book continues to be the definitive reference on drug metabolism with an emphasis on new scientific and regulatory developments It has been updated based on developments that have occurred in the last 5 years with new chapters on large molecules disposition stereo selectivity in drug metabolism drug transporters and metabolic activation of drugs Some chapters have been prepared by new authors who have emerged as subject area experts in the

decade that has passed since publication of the first edition *Lead Optimization for Medicinal Chemists* Florencio Zaragoza Dörwald, 2013-02-04 Small structural modifications can significantly affect the pharmacokinetic properties of drug candidates This book written by a medicinal chemist for medicinal chemists is a comprehensive guide to the pharmacokinetic impact of functional groups the pharmacokinetic optimization of drug leads and an exhaustive collection of pharmacokinetic data arranged according to the structure of the drug not its target or indication The historical origins of most drug classes and general aspects of modern drug discovery and development are also discussed The index contains all the drug names and synonyms to facilitate the location of any drug or functional group in the book This compact working guide provides a wealth of information on the ways small structural modifications affect the pharmacokinetic properties of organic compounds and offers plentiful fact based inspiration for the development of new drugs This book is mainly aimed at medicinal chemists but may also be of interest to graduate students in chemical or pharmaceutical sciences preparing themselves for a job in the pharmaceutical industry and to healthcare professionals in need of pharmacokinetic data **Progress in Neuro-genetics**

World Federation of Neurology, 1969 *Handbook of Psychiatric Diagnostic Procedures Vol. I* R.C.W. Hall, T.P. Beresford, 2012-12-06 The Science of Psychiatry We live in exciting times Psychiatrists practicing their specialty are beset as never before with news of developments in the field The conduits of news to the practicing clinician are usually either stories written in the popular medical press such as news circulars and advertisements from commercial concerns or from detailed scientific articles written for the scientific community In both forms the news has been coming thick and fast The problem encountered most often by practicing psychiatrists and clinicians responsible for hospital facilities is integrating this material into a coherent whole with sufficient technical detail to permit the appropriate development or use of the new tests and procedures in the clinical setting The two volumes comprising the Handbook of Psychiatric Diagnostic Procedures represent an attempt to provide a clinically useful review of the current accepted applicability of these tests and procedures to enable the clinician to properly implement and evaluate the procedures as well as the results obtained **Isoquinolines**

And Beta-Carbolines As Neurotoxins And Neuroprotectants Lucyna Antkiewicz-Michaluk, Hans Rommelspacher, 2011-12-07 The specific topic Isoquinolines And Beta Carbolines As Neurotoxins And Neuroprotectants New Perspectives In Parkinson S Disease Therapy was chosen in light of accumulating neurobiological evidence indicating that in addition to exogenous neurotoxins e g 1 methyl 4 phenyl 1 2 3 6 tetrahydropyridine MPTP endogenous compounds may play an important role in the most common neurodegenerative disorders e g Parkinson s disease Two groups of amine related compounds which appeared chemically like MPTP were detected in human brain and cerebrospinal fluid CSF carbolines BCs and tetrahydroisoquinolines TIQs These are heterocyclic compounds formed endogenously from phenylalanine tyrosine TIQs and tryptophan tryptamine and 5 hydroxytryptamine BCs respectively and exert a wide spectrum of psychopharmacological and behavioral effects The TIQs and BCs may bind to their own high affinity sites on neuronal membranes associated with or

located close to the receptors of neurotransmitters Research on TIQs and BCs is stimulated also by their possible role in pathological conditions especially parkinsonism and alcoholism Recently clinical interest has been spurred by their role as neuroprotective and even neurorestorative anticonvulsant and antiaddictive substances In this book we are going to summarize for the first time the results from behavioral neurochemical and molecular experiments which demonstrate a wide spectrum of TIQs and BCs effects from their rather mild neurotoxic actions to the important neuroprotective and antiaddictive properties Additionally the recent results of experimental studies in vivo have allowed a much better understanding and simultaneous comparison of the neurochemical and molecular mechanisms underlying the neuroprotective and neurotoxic actions of endogenous TIQs and BCs and have pointed to the possibility of their therapeutic applications in neurodegenerative diseases such as Parkinson's disease

Catecholamines I, 2012-12-06 Catecholamines are important transmitter substances in the autonomic and central nervous systems These two volumes provide a comprehensive presentation of the state of the art of catecholamine research and development in the past 15 years The volumes present in depth reviews of topical areas of catecholamine research in which substantial progress has been made and which are of current interest to various theoretical and clinical disciplines Each topic has been dealt with by an established expert Clinical subjects of relevant importance are included Catecholamines are of interest in pharmacology physiology biochemistry as well as in neurology psychiatry internal medicine cardiology hypertension asthma ophthalmology and anesthesiology

The Mechanism of Neuronal and Extraneuronal Transport of Catecholamines David Murray Paton, 1976 *Cardiovascular Function of Peripheral Dopamine Receptors* Paul Hieble, 2024-11-01 This volume deals with the consequences of activation of peripheral dopamine receptors impacting on the cardiovascular system either the prejunctional neuroinhibitory dopamine receptor or the postjunctional dopamine receptor It is useful for cardiovascular clinicians and receptor specialists

Proceedings: Progress in neuro-genetics André Barbeau, Jean-Réal Brunette, 1969

Proceedings of the Second International Congress of Neuro-genetics and Neuro-ophthalmology of the World Federation of Neurology, Montreal, 17-22 September 1967 World Federation of Neurology, 1969 Cumulated Index Medicus, 1975

Methods in Neurotransmitter and Neuropeptide Research H. Parvez, 1993 This two part book provides the most advanced biochemical and histochemical analytical methods on neurotransmitters neuromodulators and neuropeptides described by international specialists The biochemical methods include liquid chromatography electrochemistry liquid chromatography fluorescence and chemiluminescence detection gas chromatography or liquid chromatography with mass spectrometry and immunoassays Morphological and physiological methods are also described including immunohistochemistry in situ hybridization in vivo microdialysis electrophysiological analysis microwave irradiation electrophysiological analysis micro anatomical dissection peptide sequence analysis quantitative autoradiographic analysis and isolated CNS preparations The neurotransmitters and neuropeptides include catecholamines indoleamines histamine

polyamines and various neuropeptides and their related enzymes The book is the most comprehensive advanced and versatile volume on the biochemical morphological and physiological analysis of neurotransmitters and neuropeptides **Dynamics of Neurotransmitter Function** Israel Hanin,1984 **Catecholamines II** Ullrich Trendelenburg,Norman Weiner,2012-12-06 Catecholamines are important transmitter substances in the autonomic and central nervous systems These two volumes provide a comprehensive presentation of the state of the art of catecholamine research and development in the past 15 years The volumes present in depth reviews of topical areas of catecholamine research in which substantial progress has been made and which are of current interest to various theoretical and clinical disciplines Each topic has been dealt with by an established expert Clinical subjects of relevant importance are included Catecholamines are of interest in pharmacology physiology biochemistry as well as in neurology psychiatry internal medicine cardiology hypertension asthma ophthalmology and anesthesiology *Proceedings* ,1969

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