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The first six volumes of the Handbook reviewed basic neuropharmacology, drawing on expertise in biochemistry, pharmacology and electrophysiology. The next three volumes focus attention on the functional importance of these basic neuropharmacological mechanisms for normal behavior.

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Abstract. Drugs have been utilized for many years as experimental tools in the analysis of the biological mechanisms underlying behavior. An assumption implicit in this approach is that an assessment of the actions of various drugs on behavior, coupled with knowledge of mechanisms of drug action, will provide important information concerning the neurobiological bases of behavior.

Volume 18 of the Handbook of Psychopharmacology represents the first of a series of volumes intended to bring earlier sections of the work up to date. Volumes 7, 8, and 9, published in 1977 and 1978, dealt with principles of behavior, drugs and neurotransmitters, and neuroanatomy. In subsequent volumes dedicated to these issues, a mixture of topics will be covered in a given volume, covering both advances in basic knowledge in these three areas of the subject and reviews of theoretical and meth odological issues deemed to be of particular relevance at present. L. L. !. S. D. !. S. H. S. vii CONTENTS CHAPTER 1 Behavior as a Measure of Adverse Responses to Environmental Contaminants BERNARD WEISS 1. Special Perspectives 1 1. 1. Pharmacology and Toxicology 1 1. 2. Origins of Behavioral Toxicology 2 1. 3. Special Problems 2 2. Specific Substances 5 2. 1. Heavy Metals 5 2. 2. Volatile Solvents 20 2. 3. Pesticides 33 2. 4. Air Pollutants 36 2. 5. Nonspecific Poisons 42 2. 6. Food Additives 44 3. Future Prospects 47 3. 1. Chemical Waste 47 3. 2. Susceptible Populations 48 3. 3. The Statistics of Risk 49 3. 4. Screening 49 3. 5. Implications for Psychopharmacology 51 4. References 51 CHAPTER 2 State Dependent Learning and Drug Discriminations DONALD A. OVERTON 1. Introduction 59 2. Description of State Dependent Learning 59 ix x CONTENTS 3. History of Development of Knowledge about SDL 60 3. 1. Nineteenth Century Reports.

The first six volumes of the Handbook reviewed basic neuropharmacology, drawing on expertise in biochemistry, pharmacology and electrophysiology. The next three volumes focus attention on the functional importance of these basic neuropharmacological mechanisms for normal behavior. In order to study this interface in the intact functioning organism, appropriate methods for describing and quantifying behavior must be developed. The past twenty years have witnessed a revolution in the study of behavior which has taken us away from the often fruitless theoretical arguments to descriptive behaviorism. Technical achievements in the design of apparatus and the recording of behavior played an important role in these and the resultant behavioral methods have been accepted and developments, found useful in studying the effects of drugs. The development of psycho pharmacology as a discipline owes as much to these behavioral methods as it does to the basic neuropharmacological techniques pioneered for in vitro studies. In the first section of Volume 7, an effort has been made to provide reviews both of theory and practice in behavioral science. Milner's chapter deals with the concept of motivation in a theoretical framework. By contrast, the chapters by Morse et al. and Dews and DeWeese provide a more descriptive view of the various ways in which aversive stimuli control behavior and the importance of schedules of reinforcement in determining the profile of responding in the animal. The equal importance of observational behav iorial methods is well illustrated by Mackintosh et al.

Volumes 7 and 8 of the Handbook were published in 1977. In Volume 7 methods for studying unconditioned and conditioned behavior were reviewed. Attention was given to both ethological methods and operant conditioning techniques as applied to some selected aspects of behavior. Genetic, developmental, and environmental factors influencing behavior were also discussed. In Volume 8, neurotransmitter systems, and in particular brain circuits, were discussed in relation to behavior and to the effects of psychoactive drugs on behavior. The coverage was not exhaust ive because of space limitations. The topics selected for review were, at the time, the focus of considerable experimental effort; they included homeostasis-motivated behaviors: sleep, locomotion, feeding, drinking, and sexual behavior. Brain dopamine systems were therefore discussed in depth, since they were already known to be centrally involved in motivated behaviors. Learning mechanisms and emotion were reviewed in the remaining chapters. In 1984 we initiated an update of behavioral pharmacology to review areas of progress within the same scope as the earlier volumes. This update continues in Volume 19. Among the contributions are several that represent important advances in analyzing behavior and the use of more sophisticated methods to define the effect of drugs on particular aspects of behavior. The chapters by Blundell on feeding and Miczek on aggres sion illustrate the sophistication of modern ethopharmacology.

Volume 18 of the Handbook of Psychopharmacology represents the first of a series of volumes intended to bring earlier sections of the work up to date. Volumes 7, 8, and 9, published in 1977 and 1978, dealt with principles of behavior, drugs and neurotransmitters, and neuroanatomy. In subsequent volumes dedicated to these issues, a mixture of topics will be covered in a given volume, covering both advances in basic knowledge in these three areas of the subject and reviews of theoretical and meth odological issues deemed to be of particular relevance at present. L. L. !. S. D. !. S. H. S. vii CONTENTS CHAPTER 1 Behavior as a Measure of Adverse Responses to Environmental Contaminants BERNARD WEISS 1. Special Perspectives 1 1. 1. Pharmacology and Toxicology 1 1. 2. Origins of Behavioral Toxicology 2 1. 3. Special Problems 2 2. Specific Substances 5 2. 1. Heavy Metals 5 2. 2. Volatile Solvents 20 2. 3. Pesticides 33 2. 4. Air Pollutants 36 2. 5. Nonspecific Poisons 42 2. 6. Food Additives 44 3. Future Prospects 47 3. 1. Chemical Waste 47 3. 2. Susceptible Populations 48 3. 3. The Statistics of Risk 49 3. 4. Screening 49 3. 5. Implications for Psychopharmacology 51 4. References 51 CHAPTER 2 State Dependent Learning and Drug Discriminations DONALD A. OVERTON 1. Introduction 59 2. Description of State Dependent Learning 59 ix x CONTENTS 3. History of Development of Knowledge about SDL 60 3. 1. Nineteenth Century Reports.

Volume 15 of Handbook of Psychopharmacology represents the first of a new series of volumes whose aim is to bring earlier sections of the work up to date by describing the latest developments in the field. It is now seven years since the first Handbook volumes on Basic Neuropharmacology were published, and there have been many important advances. As in many other areas in science, progress in this field has depended to a considerable extent on the availability of new experimental methods, and Volume 15 reviews some major recent developments, including new autoradiographic techniques that allow direct visualization of drug and transmitter receptors in the nervous system, and the pinpointing of the precise locations of the changes in

brain metabolism elicited by various drug treatments. Volumes 16 and 17 will cover two of the most active areas for basic research in psychopharmacology at the moment: the characterization of drug and transmitter receptors in brain by radioligand binding techniques, and studies of the role of small peptides in brain function. The latter area, in particular, illustrates how rapidly progress continues to be made in basic research on the mechanisms of chemical communication within the nervous system. Seven years ago when the Handbook first appeared none of the opioid peptides (enkephalins and endorphins) had yet been identified. Since then a whole new area of basic biological research has focused on these substances, and in addition we know of more than thirty other neuropeptides with putative eNS transmitter functions.

Serotonin (5-hydroxytryptamine, often cited as 5-HT) is one of the major excitatory neurotransmitter, and the serotonergic system is one of the best studied and understood transmitter systems. It is crucially involved in the organization of virtually all behaviours and in the regulation of emotion and mood. Alterations in the serotonergic system, induced by e.g. learning or pathological processes, underlie behavioural plasticity and changes in mood, which can finally results in abnormal behaviour and psychiatric conditions. Not surprisingly, the serotonergic system and its functional components appear to be targets for a multitude of pharmacological treatments - examples of very successful drugs targeting the serotonergic system include Prozac and Zoloft. The last decades of research have not only fundamentally expanded our view on serotonin but also revealed in much more detail an astonishing complexity of this system, which comprises a multitude of receptors and signalling pathways. A detailed view on its role in basal, but also complex, behaviours emerged, and, was presented in a number of single review articles. Although much is known now, the serotonergic system is still a fast growing field of research contributing to our present understanding of the brains function during normal and disturbed behaviour. This handbook aims towards a detailed and comprehensive overview over the many facets of behavioural serotonin research. As such, it will provide the most up to date and thorough reading concerning the serotonergic systems control of behaviour and mood in animals and humans. The goal is to create a systematic overview and first hand reference that can be used by students and scholars alike in the fields of genetics, anatomy, pharmacology, physiology, behavioural neuroscience, pathology, and psychiatry. The chapters in this book will be written by leading scientists in this field. Most of them have already written excellent reviews in their field of expertise. The book is divided in 4 sections. After an historical introduction, illustrating the growth of ideas about serotonin function in behaviour of the last forty years, section A will focus on the functional anatomy of the serotonergic system. Section B provides a review of the neurophysiology of the serotonergic system and its single components. In section C the involvement of serotonin in behavioural organization will be discussed in great detail, while section D deals with the role of serotonin in behavioural pathologies and psychiatric disorders. The first handbook broadly discussing the behavioral neurobiology of the serotonergic transmitter system Co-edited by one of the pioneers and opinion leaders of the past decades, Barry Jacobs (Princeton), with an international list (10 countries) of highly regarded contributors providing over 50 chapters, and including the leaders in the field in number of articles and citations: K. P. Lesch, T. Sharp, A. Caspi, P. Blier, G.K. Aghajanian, E. C. Azmitia, and others The only integrated and complete resource on the market containing the best information integrating international research, providing a global perspective to an international community Of great value not only for researchers and experts, but also for students and clinicians as a background reference

This book has been replaced by Handbook of Psychopathy, Second Edition, ISBN 978-1-4625-3513-2.

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