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METHODS IN BEHAVIORAL PHARMACOLOGY

Elsevier Methods in Behavioral Pharmacology is unique in offering a complete description and critical evaluation of most, if not all, methods available to study the effects of drugs on behavior. It stands apart in that it is not limited to the analysis of a particular class of pharmacological agents in a limited number of paradigms. Methods in Behavioral Pharmacology covers all paradigms without reference to specific pharmacological compounds. The book provides a comprehensive overview of the methodology used to study the behavioral effects of legal and illegal drugs. It also provides an in-depth presentation of dependent variables, their quantification and a critical evaluation of their advantages and disadvantages. An excellent work, contributed to by well-known experts in the different fields of behavioral pharmacology.

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EXPERIMENTAL ANALYSIS OF BEHAVIOR

Elsevier This volume is dedicated to the late B.F. Skinner as a tribute to his pioneering work on the Experimental Analysis of Behavior. This science that he initiated studies the behavior of individual organisms under laboratory conditions. The volume describes a broad collection of representative and effective research techniques in the Experimental Analysis of Behavior; techniques derived solely from infrahuman subjects, which have been selected both for their utility in behavior analysis and for their potential value in expanding the use of behavior analysis in the neurosciences. By bringing together under one cover the expertise of individual authors regarding techniques based on their particular laboratory experiences, the book provides an informative and practical source of methods and techniques for those practising or interested in Experimental Analysis of Behaviour.

HANDBOOK OF RESEARCH METHODS IN HUMAN OPERANT BEHAVIOR

Springer Science & Business Media A host of special methodological issues arise in any discussion of research on human behavior. This practical new volume addresses many of those questions with 19 superb contributions from leading experts in the field. The text evaluates specific strategies and techniques used in laboratory settings, including - reinforcement and punishment - stimulus control - behavioral pharmacology - and methodologies concerning verbal and social behavior, among others. The book includes 135 illustrations and a notable Appendix that offers the APA's ethical guidelines for research with human subjects.

HANDBOOK OF PSYCHOPHARMACOLOGY

VOLUME 7: PRINCIPLES OF BEHAVIORAL PHARMACOLOGY

Springer 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 developments, and the resultant behavioral methods have been accepted and 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

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METHODS AND WELFARE CONSIDERATIONS IN BEHAVIORAL RESEARCH WITH ANIMALS

REPORT OF A NATIONAL INSITITUTES OF HEALTH WORKSHOP

Rapport van de Amerikkaanse regering over het gebruik van dieren bij wetenschappelijk onderzoek.

DRUGS, NEUROTRANSMITTERS, AND BEHAVIOR

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ADVANCES IN BEHAVIORAL PHARMACOLOGY

Elsevier Advances in Behavioral Pharmacology, Volume 4 covers papers about the advances in behavioral pharmacology. The book presents papers on the behavioral mechanisms of drug dependence; the effects of food deprivation on drug-reinforced behavior across most types of drugs abused by humans, routes of self-administration and species; and a biobehavioral approach to treatment of amphetamine addiction. The text also describes the behavioral effects of nicotine in human and infrahuman studies; the behavioral pharmacology of cigarette smoking; the problems and perspectives in the behavioral toxicity of lead; and the use of discriminative behavior as an index of toxicity. Behavioral pharmacologists, psychiatrists, pharmacologists,

psychologists, physicians, and students taking these courses will find the book invaluable.

ADVANCES IN BEHAVIORAL PHARMACOLOGY

Psychology Press First Published in 1989. Routledge is an imprint of Taylor & Francis, an informa company.

PHARMACOLOGICAL ASPECTS OF DRUG DEPENDENCE

TOWARD AN INTEGRATED NEUROBEHAVIORAL APPROACH

Springer Science & Business Media Now, in one volume, the latest research from the areas of molcular biology, neurochemistry and behavior analysis of drug abuse and dependence, with, wherever possible, an integration of the data from these various levels of analysis. The ensuing reports point to the complexity of the phenomenon of abuse and dependence and clearly demonstrate that it is determined by a variety of variables from molecular biology and genetics through behavioral history. This complexity is shown, however, to be responsive to rigorous scientific analysis and our success to date gives rise to hope that this distressing public health problem can ultimately be brought under control. Each of the chapters is written by a leading researcher in the field.

BEHAVIORAL PHARMACOLOGY

BEHAVIORAL PHARMACOLOGY

THE CURRENT STATUS

Springer Science & Business Media

BEHAVIORAL PHARMACOLOGY

FROM BASIC TO CLINICAL RESEARCH

BoD – Books on Demand Behavioral pharmacology studies the biological bases of behavior and the pharmacological effects of natural or synthetic drugs through behavioral analysis, with the identification of substances that could contribute to improvement of the quality of life for humans. Through behavioral pharmacology, it is possible to generate knowledge about pharmacological bases that influence the normal or altered behavior from a multidisciplinary point of view, and which includes diverse areas of science. The purpose of this book “Behavioral Pharmacology- From Basic to Clinical Research” is to show some of the advances in the identification of pharmacological properties of natural and synthetic molecules that may be used in the development of pharmacological therapies destined for the treatment of illness and disorders that affect the wellness of humans.

A PRIMER OF HUMAN BEHAVIORAL PHARMACOLOGY

Springer Science & Business Media vii Drugs and sex are two topics about which most people have strong opinions and weak understanding. Knowledge of each can

be gained in many ways, all with associated rewards and risks. Like all textbooks, this one was written in the belief that reading can foster learning. The book is intended to introduce principles of behavioral pharmacology to readers with little or no knowledge of the discipline but with an interest in how drugs affect human behavior. Gleaning anything of value from the text requires two things from the reader. The first is a willingness to accept an analysis of drug effects that shares little with folklore or common sense no tions of drug action. The second is a willingness to accept the fact that the behavioral effects of drugs are complex and depend upon a sizable number of pharmacological and behavioral variables. Unless one is aware of these factors and how they determine a drug's actions, the behavioral effects of drugs can be neither pre dicted nor meaningfully explained. If it does nothing else, this volume will make it obvious that the behavioral effects of drugs are lawful and can be predicted and understood on the basis of well-established relations between empirical phenomena. De scribing these relations and exploring how they allow behavioral ix x PREFACE pharmacologists to make sense of drug effects that are otherwise incomprehensible was a major goal in preparing the text.

HANDBOOK OF PSYCHOPHARMACOLOGY

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ADVANCES IN BEHAVIORAL PHARMACOLOGY

VOLUME 5: DEVELOPMENTAL BEHAVIORAL PHARMACOLOGY

Routledge First published in 1986. Routledge is an imprint of Taylor & Francis, an informa company.

DEVELOPMENTAL BEHAVIORAL PHARMACOLOGY

Psychology Press First published in 1986. Routledge is an imprint of Taylor & Francis, an informa company.

HANDBOOK OF PSYCHOPHARMACOLOGY

VOLUME 15 NEW TECHNIQUES IN PSYCHOPHARMACOLOGY

Springer 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.

PAIN RESEARCH

METHODS AND PROTOCOLS

Springer Science & Business Media Despite significant advances in molecular biology techniques and in our understanding of the physiology and the behavioral pharmacology of pain transduction, effective, target-specific therapeutic agents for chronic pain are still lacking. In Pain Research: Methods and Protocols, leading researchers who have first-hand experience describe, in step-by-step detail, diverse and novel techniques for dissecting the molecular mechanisms of pain transduction. These readily reproducible methods employ a variety of multidisciplinary approaches ranging from animal pain models and single neutron selection to in vitro single-cell mRNA amplification. The collection includes not only standard, cutting-edge methods, but also novel techniques only recently applied to pain research. The protocols follow the successful Methods in Molecular BiologyTM series format, each one offering step-by-step laboratory instructions, an introduction outlining the principle behind the technique, lists of equipment and reagents, and tips on troubleshooting and avoiding known pitfalls. Versatile and easy-to-use, Pain

Research: Methods and Protocols offers today's pain researchers in academic and pharmaceutical laboratories powerful tools to unravel the cellular and molecular complexity of pain transduction and set the stage for the next generation of pain medications.

DEPARTMENTS OF LABOR, HEALTH AND HUMAN SERVICES, EDUCATION, AND RELATED AGENCIES APPROPRIATIONS FOR 1991

HEARINGS BEFORE A SUBCOMMITTEE OF THE COMMITTEE ON APPROPRIATIONS, HOUSE OF REPRESENTATIVES, ONE HUNDRED FIRST CONGRESS, SECOND SESSION

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HANDBOOK OF EPISODIC MEMORY

Elsevier Episodic memory is the name of the kind of memory that records personal experiences instead of the mere remembering of impersonal facts and rules. This type of memory is extremely sensitive to ageing and disease so an understanding of the mechanisms of episodic memory might lead to the development of therapies suited to improve memory in some patient populations. Episodic memory is unique in that it includes an aspect of self-awareness and helps us to remember who we are in terms of what we did and what we have been passed through and what we should do in the future. This book brings together a renowned team of contributors from the fields of cognitive psychology, neuropsychology and behavioural and molecular neuroscience. It provides a detailed and comprehensive overview of recent developments in understanding human episodic memory and animal episodic-like memory in terms of concepts, methods, mechanisms, neurobiology and pathology. The work presented within this book will have a profound effect on the direction that future research in this topic will take. - The first and most current comprehensive handbook on what we know about episodic memory, the memory of events, time, place, and emotion, and a key feature of awareness and consciousness - Articles summarize our understanding of the mechanisms of episodic memory as well as surveying the neurobiology of epsidodic memory in patients, animal studies and functional imaging work - Includes 34 heavily illustrated chapters in two sections by the leading scientists in the field

TRANSGENERATIONAL EPIGENETICS

Elsevier Transgenerational Epigenetics provides a comprehensive analysis of the inheritance of epigenetic phenomena between generations. Recent research points to the existence of biological phenomena that are controlled not through gene mutations, but rather through reversible and heritable epigenetic processes. Epidemiological studies have suggested that environmental factors may be heritable. In fact, environmental factors often play a role in transgenerational epigenetics, which may have selective or adverse effects on the offspring. This epigenetic information can be transferred through a number of mechanisms including DNA methylation, histone modifications or RNA and the effects can persist for multiple generations. This book examines the evolution of epigenetic inheritance,

its expression in animal and plant models, and how human diseases, such as metabolic disorders and cardiovascular diseases, appear to be affected by transgenerational epigenetic inheritance. It discusses clinical interventions in transgenerational epigenetic inheritance that may be on the horizon to help prevent diseases before the offspring are born, or to reduce the severity of diseases at the very earliest stages of development in utero, and current controversies in this area of study, as well as future directions for research. Focused discussion of metabolic disorders, cardiovascular diseases and longevity, which appear most affected by reversible and heritable epigenetic processes Encompasses both foundational and clinical aspects including discussions of preventative in utero therapies Covers history, future outlook, disease management and current controversies

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PSYCHOPHARMACOLOGY

DRUGS, THE BRAIN, AND BEHAVIOR

Oxford University Press "Unique in its breadth of coverage ranging from historical accounts of drug use to clinical and preclinical behavioral studies, Psychopharmacology is appropriate for undergraduates studying the relationships between the behavioral effects of psychoactive drugs and their mechanisms of action"--

NEUROTOXICOLOGY

APPROACHES AND METHODS

Elsevier Neurotoxicology: Approaches and Methods provides a unique and comprehensive presentation of the current concepts and state-of-the-art methods for the assessment of neurotoxicity. The book analyzes various techniques available and discusses their strengths and weaknesses. This volume will serve as an excellent desk companion and laboratory guide for all investigators, researchers, clinicians, and students interested in neurotoxicology. The internationally knowngroup of editors divide the book into seven sections: Neuromorphological and Neuropathological Approaches; Neurophysiological Approaches; Neurobehavioral Toxicology; Neurochemical and Biomolecular Approaches; In-Vitro Models; Clinical Neurotoxicology; and Risk Assessment of Neurotoxicity. Each section yields the most up-to-date information by experts in their fields. Meticulously organized and edited, Neurotoxicology: Approaches and Methods is the most authoritative and well-planned neurotoxicology book on the market. Discusses neurobehavioral testing methods for assessment of neural dysfunctions Explains state-of-the-art diagnostic methods, such as clinico-neuropsychological and neurophysiological methods, for patients confronted by neurotoxic problems Discusses In Vitro methods, including aggregating brain cell methods, organotypic cultures, and the use of human neuronal cell lines for the assessment of neurotoxicity Presents step-by-step procedures for many methods Provides state-of-the-art neuromorphological and biomolecular methods and approaches for neurotoxicity investigation

READINGS IN BEHAVIORAL PHARMACOLOGY

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these substances, and in addition we know of more than thirty other neuropeptides with putative eNS transmitter functions.

DRUG USE AND MISUSE

Cengage Learning Taking an interdisciplinary approach in its comprehensive coverage of current drug issues, Maisto/Galizio/Connors' DRUG USE AND MISUSE, 9th Edition, weaves historical, social, psychological, cultural, biological and medical perspectives as it emphasizes the idea that a drug's effects depend not only on its properties, but also on the psychological and biological characteristics of its user. Thoroughly updated with the latest research, emerging social trends and legal changes, the new edition includes the most current survey data available on patterns of drug use in the U.S. and other countries as well as the most recent data available from the Center for Behavioral Health Statistics and Quality and the National Survey on Drug Use and Health (SAMHSA). Timely end-of-chapter essays and critical thinking questions help you focus on the real-world application of chapter concepts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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BEHAVIORAL PHARMACOLOGY OF HUMAN DRUG DEPENDENCE

Describes a growing body of systematically derived data on the behavioral mechanisms of drug use and abuse. Points to the ultimate goals of a better understanding of human behavior, alleviation of disorders characterized by

dysfunctional and maladaptive substance use, and improved treatment with behaviorally active drugs.

DRUG USE AND ABUSE

Cengage Learning DRUG USE AND ABUSE takes an interdisciplinary approach in its coverage of current drug issues. It weaves psychological, historical, cultural, social, biological, and medical perspectives -- emphasizing the idea that a drug's effects depend not only on its properties, but also on the biological and psychological characteristics of its user. This theme is highlighted throughout, and is prominent in discussions of the individual classes of drugs, as well as in the chapters on pharmacology and psychopharmacology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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INTRODUCTION TO BEHAVIORAL PHARMACOLOGY

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Introduction to Behavioral Pharmacology includes a short overview of behavioral analysis and general pharmacology, followed by detailed discussion of assessment of drug effects, the stimulus properties of drugs, drug abuse, and more.

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