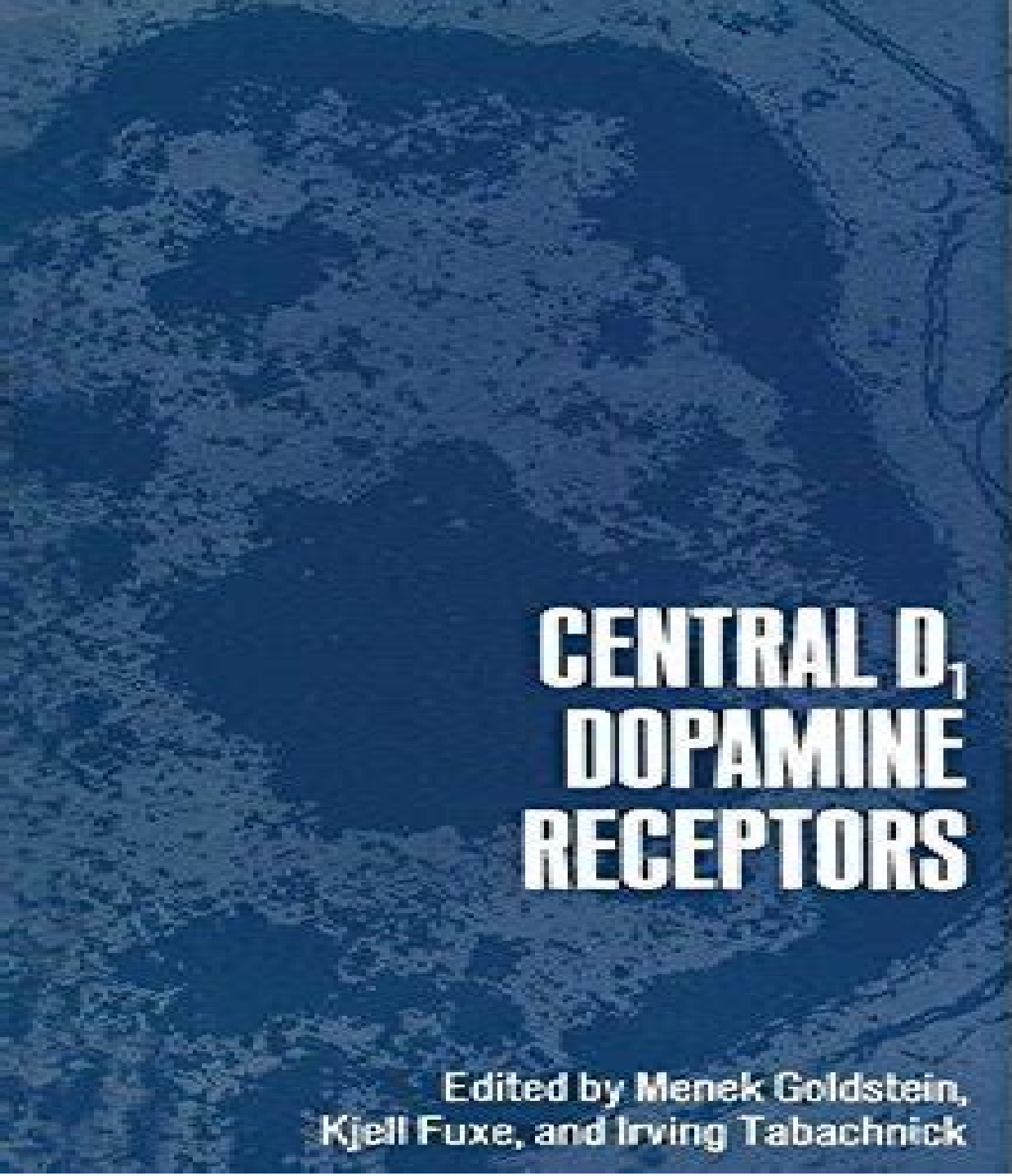




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CENTRAL D, DOPAMINE RECEPTORS

Edited by Menek Goldstein,
Kjell Fuxe, and Irving Tabachnick

Central D1 Dopamine Receptors Advances In Experimental Medicine And Biology

**Travis Thompson, Peter B. Dews, James
A. Barrett**



Central D1 Dopamine Receptors Advances In Experimental Medicine And Biology:

Central D1 Dopamine Receptors M. J. Goldstein, 2013-11-21 The development of a selective D1 dopamine DA receptor antagonist SCH 23390 stimulated a number of studies on the functions mediated by central DA receptor subtypes It was generally assumed that the central D1 DA receptor is a molecular entity whose function awaits further discovery The papers presented in this volume clearly show that this is no longer the case and that D1 DA receptors have many behavioral functions which might be altered in pathological states A number of papers have recognized the interdependence of the regulatory functions of the D1 DA receptors with D2 and other receptor proteins and vice versa The biochemical pharmacological and morphological characterization of the D1 and D2 DA receptor binding proteins as well as of DARPP 32 illustrates the complex interactions between various macromolecules Procedures described for the purification of the D1 and D2 DA receptor subtypes are fundamental for future studies on the mechanisms involved in the coupling of the receptor proteins with signal transducing systems Several studies in this volume show that D1 DA receptors have behavioral functions and that they are often similar to the responses mediated by D2 DA receptors but in some instances reflect divergent neuronal activity of both systems The knowledge of the physiology and biochemistry of the central DA receptor subtypes could lead to the development of a new generation of drugs which ameliorate some mental and neurological dysfunctions without producing severe undesirable side effects

Neurobiology of Central D1-Dopamine Receptors George Breese, 2013-03-09 Our understanding of the functional mechanisms relating dopamine activity to normal and abnormal behavior has been turned upside down by the recent developments described in the chapters of this volume Heretofore it was generally agreed that all of the pharmacological and behavioral properties ascribed to dopamine systems were mediated via activation or inhibition of the subtype of dopamine receptors termed D2 The properties of these receptors were first characterized in 1975 following their identification by receptor binding techniques utilizing 3H butyrophenones potent antipsychotic drugs used in the treatment of schizophrenia Although another subtype of dopamine receptor had already been identified a few years earlier now termed the D1 receptor its functional properties were unknown other than the fact that it was associated with the activation of the enzyme adenylate cyclase Our absence of knowledge of the behavioral functions of this receptor stemmed primarily from the lack of selective agonist and antagonists for D1 receptors drugs which did not also interact with D2 receptors Selective agents for D2 receptors did exist and hence the behavioral roles of D2 receptors were easily ascribed The work described in this text is primarily stimulated by the development of two selective D1 receptor drugs the antagonist SCH 23390 and the agonist SKF 38393 The studies described herein clearly show that D1 receptors do indeed have many behavioral functions on the surface often similar to those responses mediated by D2 receptors

Advances in Behavioral Pharmacology Travis Thompson, Peter B. Dews, James A. Barrett, 2014-01-14 This volume continues to document and summarize developments trends and emergent interdisciplinary research in behavioral psychopharmacology For researchers

and graduate students in psychopharmacology behavioral pharmacology toxicology and the neurosciences This seventh volume continues to document and summarize developments trends and emergent interdisciplinary research in behavioral psychopharmacology For researchers and graduate students in psychopharmacology behavioral pharmacology toxicology and the neurosciences This is the latest volume in a series that continues to document and summarize developments trends and emergent interdisciplinary research in behavioral pharmacology psychopharmacology and the neurosciences The chapters written by authorities in their respective research areas provide up to date examination and analysis of dominant evolving research areas Designed as a resource text for professionals as well as a supplementary text for upper level undergraduate and graduate students of behavioral pharmacology psychopharmacology psychobiology and related fields this book like the others in the Advances in Behavioral Pharmacology Series provides comprehensive coverage unavailable elsewhere

Central and Peripheral Dopamine Receptors Pier Franco Spano,1988 Neuroreceptors and Signal Transduction S. Kito,2013-11-11 Since the first Hiroshima Symposium of Neurotransmitter Receptors in 1983 there have been conspicuous advances in this field For instance our knowledge on transmembrane signalling mechanism has increased almost exponentially and this great stride has been linking areas of biology that had been previously considered of as being separate The Second Hiroshima International Neurotransmitter Receptor Symposium was held on October 6 to 9 bringing together an outstanding group of neuroscientists from various disciplines to integrate these advances in the hope that their valuable contributions will make this meeting a tradition in this city The original title of the Symposium was Receptor Mechanism of Neurotransmitter and Neuropeptides This volume is based on papers presented at this Second Hiroshima Symposium Our aim editing this book is to discuss various neurotransmitter receptors in terms of their structural and biochemical properties functions ligands and related intracellular control mechanism and to know the general denominators of all receptors The editors believe that this book will provide a useful state of the art summary of neuroreceptor fields at present and profit for those who could not participate in the Hiroshima Conference vicariously by reading the texts included in this volume The editors acknowledge the help of many friends and colleagues in making this book possible We are especially grateful to Dr Shinobu Inagaki former assistant professor of Third Department of Internal Medicine Hiroshima University School of Medicine who made the Symposium successful as secretary general through her devoted efforts In 1988 Dr **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), **Molecular and Cellular Aspects of Reproduction** Dharam S. Dhindsa,Om P. Bahl,2012-12-06 Recently considerable attention has been focused on studies of membrane structure and function involvement of cell surface components in intercellular interaction in translocation of ligands and receptors across cell membranes and in the immunological properties of cells and gene expression and regulation These investigations have led to the development of powerful technical tools which can be of immense value in the study of animal

and human reproduction The investigations of problems such as gamete interaction fertilization embryo implantation and development have reached a stage where further meaningful progress in their understanding does not seem likely unless the conventional approaches are coupled with more modern molecular and cellular techniques Furthermore it is only through such basic studies that potential means of fertility regulation will emerge The various physiological events in animal reproduction such as fertilization and implantation essentially involve an interaction between specific cell membrane components Similarly embryogenesis involves the expression and regulation of genes at various stages of development Therefore the entire Workshop was specifically devoted to two topics 1 Structure function and biosynthesis of membrane components and 2 Gene expression and regulation as related to animal reproduction The presentations relating to each topic are presented in separate sections in this book

Dopaminergic Neurons P. Beart, 1988-06-18 The proceedings of the 1987 IUPHAR symposium held in Sydney Australia are fully documented Over 100 scientists from 16 countries attended the three day conference during which time 68 multi disciplinary presentations concerning dopamine systems and their regulation were made

Published Scientific Papers of the National Institutes of Health National Institutes of Health (U.S.), 1990

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