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HISTAMINERGIC  
NEURONS:  
MORPHOLOGY  
*and*  
FUNCTION

Takehiko Watanabe  
Hiroshi Wada

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# Histaminergic Neurons Morphology And Functions

**E. Anthony Jones, Alfred J.  
Meijer, Robert A.F.M. Chamuleau**

## **Histaminergic Neurons Morphology And Functions:**

**Histaminergic Neurons** Takehiko Watanabe, Hiroshi Wada, 1991-02-22 This book provides an overview on the histaminergic neuron system in the brain for neuroscience anatomy pharmacology biochemistry and medical researchers Topics discussed include the biochemistry of enzymes histamine receptors H1 H2 and H3 morphology coexistence and development of the histaminergic neuron system electrophysiological studies on vertebrate and invertebrate neurons as well as the functions of the histamine neurons *The Functional Roles of Histamine Receptors* Kazuhiko Yanai, Maria Beatrice Passani, 2022-09-28 Research in the field of histamine receptors over the past 100 years went hand in hand with the development of modern pharmacology Advances in histamine research led by outstanding scientists was so incisive that the clinical approach to treat allergies and gastrointestinal ailments was revolutionized The pharmacological treatment of peptic ulcer and gastroesophageal reflux was indeed a revolution as it ended the surgical intervention Interest in histamine pharmacology was resurrected by the discovery of another histamine receptor number 4 using genomics based reverse pharmacological approaches for screening orphan GPCRs This receptor is preferentially expressed by immune cells and its discovery raised hopes for its translational exploitation as a new therapeutic target for unmet medical needs ranging from asthma to cancer However several drawbacks emerged and dramatically slowed down research in the field A better understanding of receptor intra and interspecies heterogeneity will certainly improve and accelerate the translation of experimental data into clinical practice Also the plethora of data on brain histamine is hinting at a fundamental role of this system as a hub that receives internal and peripheral stimuli to allocate the necessary excitation to specific brain circuits that preside the appropriate behavioral responses The development of new histaminergic ligands is an ongoing process that constantly provide new preclinical tools The aim of this book is to cover the most important aspects of histamine receptor function and pharmacology in the central nervous system and to provide a comprehensive overview of the preclinical and clinical advances made in recent decades and the exciting prospects for the future It highlights the clinical areas where there is a great need for new therapeutic approaches and where novel histaminergic agents may be useful for personalized medicine *Neurotransmitters, Drugs and Brain Function* Roy Webster, 2001-11-28 Neurotransmitter sind ein wesentlicher Bestandteil des zentralen Nervensystems das Nervenimpulse zwischen Rezeptoren und Effektoren koordiniert Neurotransmitters Drugs and Brain Function stellt eine Verbindung her zwischen grundlegenden Aspekten der Aktivit t von Neurotransmittern auf Rezeptor und Synapsenebene und ihrer jeweiligen Funktion bei normaler Hirnfunktion bei Erkrankungen und bei Drogeneinwirkung Dieser Band untersucht wie die zentrale synaptische Wirkung bestimmter Drogen auf die m gliche Beteiligung von Neurotransmittern bei der Entstehung von Krankheiten schlie en l sst und wie die Wirkungsweise von Medikamenten bei solchen Erkrankungen erkl rt werden kann Neurotransmitters Drugs and Brain Function ist f r Studenten und Forscher in den Bereichen Pharmakologie Neurowissenschaft Medizin und Psychologie von

unsch tzbarem Wert      *Basic Neurochemistry* R. Wayne Albers, Donald L. Price, 2005-11-11 Basic Neurochemistry Molecular Cellular and Medical Aspects a comprehensive text on neurochemistry is now updated and revised in its Seventh Edition This well established text has been recognized worldwide as a resource for postgraduate trainees and teachers in neurology psychiatry and basic neuroscience as well as for graduate and postgraduate students and instructors in the neurosciences It is an excellent source of information on basic biochemical processes in brain function and disease for qualifying examinations and continuing medical education Completely updated with 60% new authors and material and entirely new chapters Over 400 fully revised figures in splendid color      *The Third Histamine Receptor* Divya Vohora, 2008-11-14 Reveals an Emerging Avenue of Potential Treatments for a Host of Challenging Diseases and Disorders The H3 receptor is known to play a major role in a range of CNS disorders including those affecting cognitive functions such as ADHD and Alzheimer's disease as well as sleep disorders obesity epilepsy schizophrenia depression and neurodegeneration      New Advances in Histamine Research Kenji Tasaka, 2012-12-06 Recent research has given great insight into the physiological and pharmaceutical effects of histamine on the central nervous system and especially on the brain This volume focuses on these many new findings including the role of brain histamine in the arousal system learning and memory Also featured are the mechanisms of histamine release in bone marrow and mast cells and the role of histamine in neutrophil differentiation These are analyzed using the most up to date techniques of molecular pharmacology and refined immunoelectroscopy In addition the pharmacological profiles of newly developed H1 antagonists are described making this book invaluable to those who want to understand the very latest advances in histamine research      **Integrating the Neurobiology of Schizophrenia**, 2007-02-27 This book examines the role that dopamine plays in schizophrenia examining its role in not only the symptoms of the disease but also in its treatment It also reviews all neurotransmitters that have been implicated in schizophrenia exploring the genetic data clinical data implicating the transmitter and the preclinical data exploring how a transmitter may interact with dopamine and contribute to the dopaminergic phenotype observed in the illness This book will serve as an educational tool for instructors a guide for clinicians and be of interest to researchers It is a good reference for researchers specialized in one particular area and interested in learning about other areas of pathology in schizophrenia and how they may all feed into each other The book concludes with an overall integrative model assembling as many of these elements as possible      Neurotransmitters and Neuromodulators Oliver von Bohlen und Halbach, Rolf Dermietzel, 2006-12-13 A complete update of the highly acclaimed handbook with data on all neurotransmitters and the majority of neuromodulators The coverage is now even more comprehensive with 15% more entries on neuropeptides classic neurotransmitters and related substances in a clear alphabetical format The methodological section has been expanded by 50% and now includes color figures plus new chapters on genomics proteomics databases microarrays MALDI TOF neutrophins FGF endocannabinoids and neuroimaging The text provides clearly structured information on the biosynthesis and degradation localization receptors signal transduction

pathways and biological effects in the central nervous system with all substances uniformly treated for an easy comparison of data Furthermore introductory chapters on receptors transporters and the blood brain barrier make this an indispensable tool for researchers teachers and advanced students as well as a must have for every neuroscientist

*Encephalopathy and Nitrogen Metabolism in Liver Failure* E. Anthony Jones, Alfred J. Meijer, Robert A.F.M. Chamuleau, 2012-12-06

*Encephalopathy and Nitrogen Metabolism in Liver Failure* contains research reports and state of the art reviews that were presented at the 11th International Symposium on Hepatic Encephalopathy and Nitrogen Metabolism in relation to liver disease that was held in Amsterdam The Netherlands from 30 May to 1 June 2002 Themes covered include the metabolism of ammonia and amino acids in relation to liver disease the assessment of hepatic encephalopathy HE minimal HE animal models of HE neuropsychiatric dysfunction in patients with chronic liver disease the pathogenesis of HE the astrocyte in liver disease acute liver failure and cerebral edema treatment of HE and artificial liver support systems This volume provides an indispensable source of important new research findings and ideas for clinicians and biomedical scientists working in the field of HE and nitrogen metabolism in relation to liver disease

### **Stars and Rising Stars in Neuroendocrinology**

Alexandre Benani, 2024-09-02 Recognizing the future leaders of Neuroendocrine Science is fundamental to safeguarding tomorrow's driving force in innovation This collection will showcase the high quality work of internationally recognized researchers both in the midst and in the early stages of their careers We aim to highlight research by leading scientists of the future across the entire breadth of neuroendocrinology and present advances in theory experiment and methodology with applications to compelling problems Please note contributions to the collection are by invitation only Please inform the Editorial Office at [neuroendocrinology.editorial@frontiersin.org](mailto:neuroendocrinology.editorial@frontiersin.org) once you are prepared to submit This Research Topic will accept the following article types Original Research Review Mini Review Systematic Review Methods Hypothesis and Theory Opinion and Perspective All Rising Star researchers will be suggested by established Editors in recognition of their influence on the future directions in their respective fields

*Introduction to Neuropsychopharmacology* Leslie Iversen, 2009 The text ranges from drugs that affect the mood and behavior to hypnotics narcotics anticonvulsants and analgesics as well as a variety of drugs that affect the autonomic nervous system and psychoactive drugs used for non medical reasons nicotine alcohol opiates psychostimulants and cannabis

BOOK JACKET *The Biochemical Basis of Neuropharmacology* Jack R.

Cooper, Floyd E. Bloom, Robert H. Roth, 2003 Aside from the usual updating of material the major change in this edition is an extensive rewriting of the chapter on memory and learning to emphasize that genes that are involved in behavior are not immutable but their expression can be modified by transcription factors Thus with respect to learning that old question about which is more important nature or nurture genetics or environment should be answered with the question which leg is more important for walking the left or the right

**Histamine and Histamine Antagonists** Börje Uvnäs, 2012-12-06 Together with the two previous volumes of the Handbook of Experimental Pharmacology on histamine and antihistamines the present

publication yields a picture of a still rapidly developing field of research. New techniques and new experimental approaches have brought us new knowledge and deeper insight into the biomedical significance of histamine even if many questions remain to be answered about the functional and medical implications of this old biogenic amine. The present volume covers the progress in histamine research during the past two decades. A significant chapter concerns techniques for histamine determination. As the result of a consensus meeting in Munich in December 1988 a panel of eminent specialists arrived at common recommendations as to the usefulness of the available histamine assays for the most common experimental biomedical conditions. The heterogeneity of mast cells with great differences in their reactivity to various stimuli has become apparent not only among species but also among the tissues of a species. New information is presented about the mechanism of exocytosis. The old questions about the role of histamine in the mechanism of gastric secretion and in cardiovascular and respiratory functions have been studied with new techniques and the role of H<sub>1</sub> and H<sub>2</sub> receptors discussed. New observations have been made on the occurrence and possible functions of histaminergic neurons and histamine receptors in CNS where a new type of receptor the H<sub>3</sub> seems to be widely represented.

**Blood-Spinal Cord and Brain Barriers in Health and Disease** Hari Shanker Sharma, 2003-12-21 Recent research into the anatomy and pathophysiology of the blood brain and blood spinal cord barriers suggests that a breakdown in these barriers can result in several diseases affecting the central nervous system CNS. This book presents new findings in the area of blood brain barrier research that suggest barriers play important roles in health and disease conditions. It also discusses the development of new drugs that can modulate the barrier function in the CNS and may provide new approaches to treating neurological diseases such as Alzheimer's disease and other motor neuron diseases as well as spinal cord trauma. Key Features: Presents the recent progress made in the research on the blood brain and spinal cord barrier. Contains numerous illustrations of light and electron micrographs. Includes Foreword written by two eminent researchers in the field Milton Brightman and Jorge Cervos Navarro.

**Histamine in the brain** Jian-Sheng Lin, Pertti Panula, Maria Beatrice Passani, 2015-03-18 Brain aminergic pathways are organized in parallel and interacting systems which support a range of functions from homeostatic regulations to cognitive and motivational processes. Despite overlapping functional influences dopamine serotonin noradrenaline and histamine systems provide different contributions to these processes. The histaminergic system long ignored as a major regulator of the sleep wake cycle has now been fully acknowledged also as a major coordinator of attention learning and memory decision making. Although histaminergic neurons project widely to the whole brain they are functionally heterogeneous a feature which may provide the substrate for differential regulation in a region specific manner of other neurotransmitter systems. Neurochemical preclinical studies have clearly shown that histamine interacts and modulates the release of neurotransmitters that are recognized as major modulators of cognitive processing and motivated behaviours. As a consequence the histamine system has been proposed as a therapeutic target to treat sleep wake disorders and cognitive

dysfunctions that accompany neurodegenerative and neuroinflammatory pathologies Last decades have witnessed an unexpected explosion of interest in brain histamine system as new receptors have been discovered and selective ligands synthesised Nevertheless the complete picture of the histamine systems fine tuning and its orchestration with other pathways remains rather elusive This Research Topic is intended to offer an inter disciplinary forum that will improve our current understanding of the role of brain histamine and provide the fundamentals necessary to drive innovation in clinical practice and to improve the management and treatment of neurological disorders **Basic Neurochemistry** Scott T. Brady, PhD, George J. Siegel, MD, R. Wayne Albers, Donald L. Price, 2011-12-07 Includes bibliographical references and index

Neurotransmitter Interactions and Cognitive Function Edward D. Levin, 2006-11-18 Cognitive function involves the participation of many different neurotransmitter systems in a variety of brain areas The centerpiece of investigation regarding cognitive function has classically been the cholinergic system but it has become increasingly clear that other transmitter systems interact with cholinergic systems to provide the neural basis for cognitive function This book brings together cutting edge research to determine how the transmitter interactions form the mechanistic bases for attention learning and memory This research on transmitter interactions not only provides a more accurate though complex picture of how the brain works to provide cognitive function it also provides important new levels of understanding about the mechanisms of cognitive dysfunction and novel avenues for therapeutic treatment The researchers who contributed to this volume both reviewed the latest findings but also point to the directions of advancement of the field of neurotransmitter interactions and cognitive function *Investigative Ophthalmology & Visual Science* ,1999 Neuropsychopharmacology Kenneth L. Davis, American College of Neuropsychopharmacology, 2002 Thoroughly updated and completely reorganized for a sharper clinical focus the Fifth Edition of this world renowned classic synthesizes the latest advances in basic neurobiology biological psychiatry and clinical neuropsychopharmacology The book establishes a critical bridge connecting new discoveries in molecular and cellular biology genetics and neuroimaging with the etiology diagnosis and treatment of all neuropsychiatric disorders Nine sections focus on specific groups of disorders covering clinical course genetics neurobiology neuroimaging and current and emerging therapeutics Four sections cover neurotransmitter and signal transduction emerging methods in molecular biology and genetics emerging imaging technologies and their psychiatric applications and drug discovery and evaluation Compatibility BlackBerry R OS 4 1 or Higher iPhone iPod Touch 2 0 or Higher Palm OS 3 5 or higher Palm Pre Classic Symbian S60 3rd edition Nokia Windows Mobile TM Pocket PC all versions Windows Mobile Smartphone Windows 98SE 2000 ME XP Vista Tablet PC

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