Gaba Inhibits Sexual Behaviour In Female Rats

#GABA #female rat sexual behavior #sexual inhibition #rat libido suppression #GABA neurotransmitter

Research indicates that the neurotransmitter GABA plays a significant role in decreasing or inhibiting sexual behavior specifically in female rats. This finding suggests a neurochemical mechanism through which GABAergic activity can modulate and suppress the reproductive drive and activity in female rodents, offering insights into brain pathways controlling sexual function.

Dx/Rx

Dx/Rx: Sexual Dysfunction in Men and Women is an essential resource for urologists, family medicine physicians, primary care practitioners, obstetricians, and gynecologists. This concise, pocket-sized guide provides comprehensive, up-to-date information on therapies for male and female sexual dysfunction. Presented in a handy, easy-to-read format, this is a must-have guide for use on the ward or in the clinic!

Cumulated Index Medicus

This is an extensively detailed, comprehensive clinical reference text dealing with every aspect of reproductive medicine and science in 77 major contributions by today's leading international authorities. The book covers an immense range of subjects, including sexually transmitted diseases, male and female contraception, endometriosis, the menopause, assisted reproduction, pediatric and adolescent reproductive medicine, normal and abnormal pregnancy, endoscopy and advanced surgical procedures, IVF procedures, GnRH, LHRH, FSH, genetics, neuroactive peptides and steroids, and chromosomal abnormalities. The book contains a unique fund of up-to-date reference lists covering every area of reproductive medicine and science are more extensive and is fully indexed. Main Sections: Social, ethical issues and an agenda for the future. Sexually transmitted diseases. Issues in contraception. Gonadotropins and neurohormones. The polycystic ovary. The fallopian tube. Assisted reproduction technology. Management of male infertility. Pediatric and adolescent reproductive medicine. Genetics and reproduction. Recurrent pregnancy loss and basic mechanisms underlying preeclampsis and endometriosis. The menopause. Endoscopy and reproductive medicine. Index.

New Horizons in Reproductive Medicine

First book devoted to the diagnosis and treatment of sexual pain in women Female Sexual Pain Disorders is a remarkable fusion of clinical and scientific knowledge that will empower women’s healthcare professionals to help their patients in overcoming this common debilitating disorder. Based on the highest level research, it provides state-of-the-art practical guidance that will help you to: Evaluate and distinguish the causes of sexual pain in women Differentiate the many forms of sexual pain Implement multidisciplinary treatments Distilling the experience of world leaders across many clinical, therapeutic and scientific disciplines, with an array of algorithms and diagnostic tools, Female

Sexual Pain Disorders is your ideal companion for treating the many millions of women who suffer from this disorder worldwide. All proceeds from this book are being donated to the International Society for the Study of Women's Sexual Health (ISSWSH).

Psychopharmacology Bulletin

Male and Female Sexual Dysfunction provides an authoritative, comprehensive and clinically-orientated guide to both the background causes and full range of treatment options for patients suffering from impotence and sexually-related dysfunction. The book is a concise and practical text, enhanced with specially commissioned computer graphics and full color illustrations. It is one of the first titles to comprehensively cover the new developments in treatment of female sexual dysfunction. Throughout, there is a wealth of information on new therapies, and the very latest information on drug treatment. The book includes innovative treatment algorithms, summary boxes, and patient vignettes, and has been produced to a tight time-frame to ensure a current approach. Encompasses the very latest developments in the field, thanks to an especially brief production schedule. Discusses the neuroanatomy and physiology of male and female sexual response, and evaluates the role of factors such as hormones, diabetes, hypertension, and depression in causing sexual dysfunction. Explores new oral therapies for male and female sexual dysfunction - new therapies for ejaculation dis¬orders, including rapid ejaculation - MUSE and intracavernosal therapies - vacuum devices, gels, injections, and penile implants - gene therapy - and future directions in treatment. Presents specially commissioned computer graphics and full-color illustrations that make pathophysiology and treatment principles easy to understand.

Female Sexual Pain Disorders

Includes established theories and cutting-edge developments. Presents the work of an international group of experts. Presents the nature, origin, implications, an future course of major unresolved issues in the area.

Abstracts of the ... Annual Meeting of the European Neuroscience Association

The 3rd edition, the first new one in ten years, includes coverage of molecular levels of detail arising from the last decade's explosion of information at this level of organismic organization. There are 5 new Associate Editors and about 2/3 of the chapters have new authors. Chapters prepared by return authors are extensively revised. Several new chapters have been added on the topic of pregnancy, reflecting the vigorous investigation of this topic during the last decade.The information covered includes both human and experimental animals; basic principels are sought, and information at the organismic and molecular levels are presented. *The leading comprehensive work on the physiology of reproduction*Edited and authored by the world's leading scientists in the field*Is a synthesis of the molecular, cellular, and organismic levels of organization*Bibliogrpahics of chapters are extensive and cover all the relevant literature

Psychopharmacology Bulletin

Classical studies of steroid hormones are concerned with their regulation of protein synthesis via the modulation of genomic transcription. But many of the actions of these hormones occur too rapidly to be explained in this manner, particularly their effects on the central nervous system. This text deals with recent discoveries showing that steroids can modulate the activity of some neurotransmitters. It explores the role of GABA as an important regulator of neuronal activity in the central nervous system and its inhibitory action as mediated via the GABA receptor and potentiated by steroids. In addition, the binding of steroids to cell membranes, the components involved and the outcome of such interactions are described. Also discusses possible uses of steroids as anesthetics and anticonvulsants.

Male and Female Sexual Dysfunction

This book covers at an advanced level the most fundamental ideas, concepts and methods in the field of applications of fuzzy logic to the study of neural cell behavior. Motivation and awareness are examined from a physiological and biochemical perspective illustrating fuzzy mechanisms of complex systems.

Psychopharmacology Abstracts

Understanding the brain mechanisms which underlie behavior is one of the most challenging tasks of modern biology. The study of these mechanisms can be approached using a variety of biological systems as models, depending essentially on the type of question being asked and the technical approach which is considered. In vertebrates, the study of brain neurochemistry in relation to behavior e,xpression has made tremendous progress during the last two decades. In particular, much at tention has been devoted to the effect of steroid hormones on brain structure and activity in connection with social and mainly reproductive behavior. This book exemplifies some of the major trends in the field. I did not attempt to cover exhaustively all the work that has been done in this area but rather to present a series of selected reviews on the molec ular and cellular brain mechanisms most directly related to social behavior. This selection obviously reflects my own interests but also, I believe, highlights those areas of research in which important progress has been made in recent years. A number of brain biochemical or cellular mechanisms which could be related to behavior, but have not been formally demonstrated to be so, are consequently ignored. The focus here is on social behavior and thus steroid-dependent processes are covered in priority. This choice of course leads us to ignore major trends in brain and behavior research but this is, I hope, clearly reflected in the title of the volume.

Handbook of Psychology, Biological Psychology

Our understanding of the ways that neuroactive steroids act in the brain has been increased by transgenic approaches, recombinant expression systems, higher resolution electrophysiological paradigms, and the development of technology to localize receptors. Recent behavioral studies examining the effects of steroids on mood, seizure susceptibility,

Knobil and Neill's Physiology of Reproduction

This special volume provides twelve contributions that discuss different aspects of social and endocrine behaviors with an emphasis on the neural regulation of these behaviors. In addition, several review chapters address the neural plasticity that results from exposure to hormones or the experiences with the behavior. Finally, each of the contributions emphasizes future directions and incorporation of newly developed neuroscience techniques and approaches.

Steroids and Neuronal Activity

The brain is the most complex organ in our body. Indeed, it is perhaps the most complex structure we have ever encountered in nature. Both structurally and functionally, there are many peculiarities that differentiate the brain from all other organs. The brain is our connection to the world around us and by governing nervous system and higher function, any disturbance induces severe neurological and psychiatric disorders that can have a devastating effect on quality of life. Our understanding of the physiology and biochemistry of the brain has improved dramatically in the last two decades. In particular, the critical role of cations, including magnesium, has become evident, even if incompletely understood at a mechanistic level. The exact role and regulation of magnesium, in particular, remains elusive, largely because intracellular levels are so difficult to routinely quantify. Nonetheless, the importance of magnesium to normal central nervous system activity is self-evident given the complicated homeostatic mechanisms that maintain the concentration of this cation within strict limits essential for normal physiology and metabolism. There is also considerable accumulating evidence to suggest alterations to some brain functions in both normal and pathological conditions may be linked to alterations in local magnesium concentration. This book, containing chapters written by some of the foremost experts in the field of magnesium research, brings together the latest in experimental and clinical magnesium research as it relates to the central nervous system. It offers a complete and updated view of magnesiums involvement in central nervous system function and in so doing, brings together two main pillars of contemporary neuroscience research, namely providing an explanation for the molecular mechanisms involved in brain function, and emphasizing the connections between the molecular changes and behavior. It is the untiring efforts of those magnesium researchers who have dedicated their lives to unraveling the mysteries of magnesiums role in biological systems that has inspired the collation of this volume of work.

Neural Cell Behavior and Fuzzy Logic

The Fourth Edition of Knobil & Neill continues to serve as a reference aid for research, to provide the historical context to current research, and most importantly as an aid for graduate teaching on a broad range of topics in human and comparative reproduction. In the decade since the publication

of the last edition, the study of reproductive physiology has undergone monumental changes. Chief among these advances are in the areas of stem cell development, signaling pathways, the role of inflammation in the regulatory processes in the various tissues, and the integration of new animal models which have led to a greater understanding of human disease. The new edition synthesizes all of this new information at the molecular, cellular, and organismal levels of organization and present modern physiology a more understandable and comparative context. The Fourth Edition has been extensively revised, reflecting new fundamental advancements in this rapidly advancing field. Provides a common language for researchers across the fields of physiology, endocrinology, and biology to discuss their understanding of reproduction. Saves academic researchers time in quickly accessing the very latest details on reproductive physiology, as opposed to searching through thousands of journal articles.

Molecular and Cellular Basis of Social Behavior in Vertebrates

Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism—ranging from behavioral modification to modulation of hormones release. Animals emit intraspecific chemical signals, often referred to as pheromones, to advertise their presence to members of the same species and to regulate interactions aimed at establishing and regulating social and reproductive bonds. In the last two decades, scientists have developed a greater understanding of the neural processing of these chemical signals. Neurobiology of Chemical Communication explores the role of the chemical senses in mediating intraspecific communication. Providing an up-to-date outline of the most recent advances in the field, it presents data from laboratory and wild species, ranging from invertebrates to vertebrates, from insects to humans. The book examines the structure, anatomy, electrophysiology, and molecular biology of pheromones. It discusses how chemical signals work on different mammalian and non-mammalian species and includes chapters on insects, Drosophila, honey bees, amphibians, mice, tigers, and cattle. It also explores the controversial topic of human pheromones. An essential reference for students and researchers in the field of pheromones, this is also an ideal resource for those working on behavioral phenotyping of animal models and persons interested in the biology/ecology of wild and domestic species.

Neurosteroid Effects in the Central Nervous System

Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings.

Neuroendocrine Regulation of Behavior

Here is a broad overview of the central topics and issues in psychopharmacology, biological psychiatry and behavioral neurosciences, with information about developments in the field, including novel drugs and technologies. The more than 2000 entries are written by leading experts in pharmacology and psychiatry and comprise in-depth essays, illustrated with full-color figures, and are presented in a lucid style.

Psychopharmacology Service Center Bulletin

Written by leading figures in the fields of sexual medicine and psychopharmacology, this book discusses the effects on sexual function of both prescribed and non-prescribed drugs. Set in the context of current understanding of the underlying biochemical and physiological basis of sexuality, itwill be prove valuable for prescribing physicians and pharmacologists in order to avoid unnecessary distress and discomfort for their patients.

The Neurobiology of Dopamine Systems

Includes established theories and cutting-edge developments. Presents the work of an international group of experts. Presents the nature, origin, implications, an future course of major unresolved issues in the area.

CSA Neurosciences Abstracts

Anti-social behaviors and social deficits induced mental disorders are critical problems in our society today. Social behaviors and interactions are shaped by experience, hereditary components (genes, hormones and neuropeptides) and environmental factors (photoperiods and metabolic signals). In addition

to the classical gonadotropin-releasing hormone, RFamide peptides, kisspeptin and gonadotropin-inhibiting hormone are emerging as important regulators of the reproductive axis. These neuropeptides are evolutionarily conserved and are regulated by environmental factors. In this Research Topic, we advocate more recent advances in reproductive neuropeptides and sex steroids in the domains of social behavior including sexual and parental behavior, aggression, stress and anxiety. Using multiple species model, we also review how genes and the neuroendocrine system interact at the cell and organismic levels to contribute to social behavior in particular the epigenetic genomic changes caused by early life environment. We provide comprehensive insights of distinct neural networks and how cellular and molecular events in the brain regulate social behavior from a comparative perspective.

Magnesium in the Central Nervous System

The average physician and even cancer care-givers are not knowledgeable about the effects of cancer treatment on sex and reproductive life. They are even less aware of the options available for treatment of such patients. Cancer and Sexual Health fills a great need for a reference work devoted to the link between cancer and human sexuality. The volume is designed to give a comprehensive and state-of-the-art review of the sexual and reproductive consequences of cancer diagnosis and treatment. It will prove an invaluable resource for those clinicians caring for cancer patients as well as acting as a reference text for the sexual medicine clinician who may not see a large number of cancer patients.

Environmental Factors in Mammal Reproduction

This volume contains the plenary and round-table papers and selected communications presented at the 4th World Congress of Gynecological Endocrinology, organized by the International Society of Gynecological Endocrinology jointly with the 2nd Congress of the European Society for Gynecologic and Obstetric Investigation held at Madonna di Campiglio, Italy, in February 1995.

Knobil and Neill's Physiology of Reproduction

The Encyclopedia of Animal Behavior, Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century. Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior. This comprehensive work covers not only the usual topics such as communication, learning, sexual selection, navigation, and the history of the field, but also emerging topics in cognition, animal welfare, conservation, and applications of animal behavior. The large section on animal cognition brings together many of the world's experts on the subject to provide a comprehensive overview of this rapidly developing area. Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals, farm animals, and animals in the wild. The key role of animal behavior in conservation biology receives broad attention, including chapters on topics such as the effects of noise pollution, captive breeding, and how the behavioral effects of parasites interacts with conservation issues. Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species, such as wolves, chimpanzees, hyenas and sharks. Clear, accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field. In-depth coverage of concepts, methods, and exemplar organisms serves the needs of graduate students and professionals in the field. From the use of behavior in assessing the welfare of pigs to the social behavior of insects, from animal empathy to bat brains, this authoritative reference, with its in-depth introductory articles, rich array of illustrations, interactive cross-referenced links, and numerous suggested readings, can guide the student or the professional to an expanded appreciation of the far-flung world of animal behavior. An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course, the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come. Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear, accessible writing and is well illustrated, including an online video, complimenting a wealth of information As an online reference, this work will be subject to period updating. This ensures that the work always remains current Contains in-depth introductions to the material that make each well-illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors, drawn from around the world, represent the best and the brightest

among today's behavioral biologists and have recruited a broad range of internationally recognized experts Editors-in-Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

Neurobiology of Chemical Communication

GABA is the principal inhibitory neurotransmitter in the CNS and acts via GABAA and GABAB receptors. Recently, a novel form of GABAA receptor-mediated inhibition, termed “tonic” inhibition, has been described. Whereas synaptic GABAA receptors underlie classical “phasic” GABAA receptor-mediated inhibition (inhibitory postsynaptic currents), tonic GABAA receptor-mediated inhibition results from the activation of extrasynaptic receptors by low concentrations of ambient GABA. Extrasynaptic GABAA receptors are composed of receptor subunits that convey biophysical properties ideally suited to the generation of persistent inhibition and are pharmacologically and functionally distinct from their synaptic counterparts. This book highlights ongoing work examining the properties of recombinant and native extrasynaptic GABAA receptors and their preferential targeting by endogenous and clinically relevant agents. In addition, it emphasizes the important role of extrasynaptic GABAA receptors in GABAergic inhibition throughout the CNS and identifies them as a major player in both physiological and pathophysiological processes.

Index Medicus

Serving as a reference on the epilepsies, this fourth edition provides an overview of seizure disorders and contemporary treatment options. It brings together the vital work in the neurosciences, genetics, electroencephalography, pediatric and adult neurology, neuropharmacology, neurosurgery, and psychiatry. It also talks about epilepsy surgery.

Encyclopedia of Psychopharmacology

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Sexual Pharmacology

Thirty years ago, the group of Baulieu and colleagues discovered that certain steroid hormones were present in higher amounts in the brain than in the plasma, and also found that suppression of circulating steroids by adrenalectomy and castration did not affect the concentration of pregnenolone, dehydroepiandrosterone and their sulfate esters in the rat brain. These seminal observations led to the concept that the brain, in very much the same way as the adrenal cortex, testis, ovary and placenta, was capable of synthesizing steroids. These brain born steroids, called neurosteroids, have been found to exert a vast array of biological activities. A number of steroidogenic enzymes have now been identified in the central nervous system by immunohistochemistry and in situ hybridization, and the neuronal and hormonal mechanisms regulating the biosynthesis of neurosteroids have been partially elucidated. The aim of this Research Topic is to celebrate three decades of research on neurosteroids by gathering a bouquet of review papers and original articles from leading scientists in the flourishing field of neurosteroids.

Handbook of Psychology, Biological Psychology

In the past decade, enormous strides have been made in understanding the human brain. The advent of sophisticated new imaging techniques (e.g. PET, MRI, MEG, etc.) and new behavioral testing procedures have revolutionized our understanding of the brain, and we now know more about the anatomy, functions, and development of this organ than ever before. However, much of this knowledge is scattered across scientific journals and books in a diverse group of specialties: psychology, neuroscience, medicine, etc. The Encyclopedia of the Human Brain places all information in a single source and contains clearly written summaries on what is known of the human brain. Covering anatomy, physiology, neuropsychology, clinical neurology, neuropharmacology, evolutionary biology, genetics,

and behavioral science, this four-volume encyclopedia contains over 200 peer reviewed signed articles from experts around the world. The Encyclopedia articles range in size from 5-30 printed pages each, and contain a definition paragraph, glossary, outline, and suggested readings, in addition to the body of the article. Lavishly illustrated, the Encyclopedia includes over 1000 figures, many in full color. Managing both breadth and depth, the Encyclopedia is a must-have reference work for life science libraries and researchers investigating the human brain.

Reproductive Neuroendocrinology and Social Behavior

Cancer and Sexual Health