




The neurohypophyseal hormone oxytocin and eating behaviors: a narrative review

Michele Iovino¹ · Tullio Messina² · Simonetta Marucci³ · Domenico Triggiani¹ · Vito Angelo Giagulli¹ · Edoardo Guastamacchia¹ · Giuseppina Piazzolla¹ · Giovanni De Pergola^{4,5} · Giuseppe Lisco¹  · Vincenzo Triggiani¹

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Abstract

Background The neuropeptide oxytocin (OT) is crucial in several conditions, such as lactation, parturition, mother-infant interaction, and psychosocial function. Moreover, OT may be involved in the regulation of eating behaviors.

Methods This review briefly summarizes data concerning the role of OT in eating behaviors. Appropriate keywords and medical subject headings were identified and searched for in PubMed/MEDLINE. References of original articles and reviews were screened, examined, and selected.

Results Hypothalamic OT-secreting neurons project to different cerebral areas controlling eating behaviors, such as the amygdala, area postrema, nucleus of the solitary tract, and dorsal motor nucleus of the vagus nerve. Intracerebral/ventricular OT administration decreases food intake and body weight in wild and genetically obese rats. OT may alter food intake and the quality of meals, especially carbohydrates and sweets, in humans.

Discussion OT may play a role in the pathophysiology of eating disorders with potential therapeutic perspectives. In obese patients and those with certain eating disorders, such as bulimia nervosa or binge/compulsive eating, OT may reduce appetite and caloric consumption. Conversely, OT administered to patients with anorexia nervosa may paradoxically stimulate appetite, possibly by lowering anxiety which usually complicates the management of these patients. Nevertheless, OT administration (e.g., intranasal route) is not always associated with clinical benefit, probably because intranasally administered OT fails to achieve therapeutic intracerebral levels of the hormone.

Conclusion OT administration could play a therapeutic role in managing eating disorders and disordered eating. However, specific studies are needed to clarify this issue with regard to dose-finding and route and administration time.

Keywords Oxytocin · Oxytocin receptor · Food intake · Eating behaviors · Eating disorder · Obesity · Disordered eating

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Abbreviations

AP	Area postrema
DMV	Dorsal motor nucleus of the vagus nerve
DVC	Dorsal vagal complex
GLP-1	Glucagon-like peptide 1
MCN	Magnocellular neurosecretory neurons
NA	Noradrenaline
NTS	Nucleus of the solitary tract
OT	Oxytocin
OTR	Oxytocin receptor
PVN	Paraventricular nuclei neurons
SON	Supraoptic
VMH	Ventromedial nucleus of the hypothalamus

Handbook Of Neurohypophyseal Hormone Analogs

Karel Jošt



Handbook Of Neurohypophyseal Hormone Analogs:

Handbook of Neurohypophyseal Hormone Analogs Karel Jošt, Michal Lebl, František Brtník, 1987 **Handbook of Neurohypophyseal Hormone Analogs, Set of Volume I (Part 1 & 2)**, 1999-01-01 *HANDBOOK NEUROHYPOPHY HORMONE ANALOG* Jost, Lebl, 1987-02-28 *Handbook of Neurophy Hormone Analogs Part 1* Jost, Lebl/brtni, 1987-04-30

These volumes present data on 1000 synthetic analogs of oxytocin and vasopressin in comprehensive tables retrieving data from many inaccessible sources. The accompanying text covers synthesis, physicochemical, biochemical, and pharmacological properties, enzymatic clearance, immunochemistry, and interactions with neurophysin and receptors. Relationships between chemical structure and biological activities are stressed. The set will be valuable to peptide chemists in particular as well as to biochemists, pharmacologists, and physicians and veterinarians.

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Chemistry, Biology, and Medicine of Neurohypophyseal Hormones and Their Analogs Volume 8 covers the advances in methods to study peptide hormone action at the molecular level. The book discusses the anatomy, physiology, and clinical disorders of the neurohypophysis, the biosynthesis of neurohypophyseal peptides, and the structure-activity relationships of neurohypophyseal peptides with an emphasis on the role of conformational features. The text also describes conformational studies of neurohypophyseal hormones by physical chemical techniques, the central nervous system effects of neurohypophyseal peptides, and the effects of neurohypophyseal hormones on the kidney. The effects of neurohypophyseal hormones on the cardiovascular systems are also considered. Chemists, neurobiologists, and people involved in the study of neurohypophyseal hormones will find the book invaluable.

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Handbook of Neurochemistry and Molecular Neurobiology Ramon Lim, Abel Lajtha, 2006-09-18 The Handbook is intended to be a service to the neuroscience community to help in finding available and useful information to point out gaps in our knowledge and to encourage continued studies It represents the valuable contributions of the many authors of the chapters and the guidance of the editors and most important it represents support for research in this discipline Based on the rapid advances in the years since the second edition Publisher's website

Handbook of Psychopharmacology Leslie Iversen, Solomon H. Snyder, 2013-11-11 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 exhaustive 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 aggression illustrate the sophistication of modern ethopharmacology

Essentials of Pharmacotherapeutics F S K Barar, 2000-10 This comprehensive and well written book presents the fundamental concepts of Pharmacotherapeutics aiming at the safe and effective use of drugs in the treatment of disease It is interdisciplinary in its approach and provides a basis for understanding the actions and uses of

drugs in man It is written in a simple and easy to understand language The text is divided into sixteen chapters National Library of Medicine Current Catalog National Library of Medicine (U.S.),1988 **Drug Discovery and Design** John Matsoukas,Thomas Mavromoustakos,2002 This work covers review articles and research articles related to the Bioactive Drugs in Drug Discovery Design It covers the synthesis and properties of bioactive molecules and enzymes the role of membranes in drug activity and formulation **Amino Acids and Peptides** J H Jones,2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume **Drug Discovery Handbook** Shayne Cox Gad,2005-06-24 The Drug Discovery Handbook gives professionals a tool to facilitate drug discovery by bringing together for the first time in one resource a compendium of methods and techniques that need to be considered when developing new drugs This comprehensive practical guide presents an explanation of the latest techniques and methods in drug discovery including Genomics proteomics high throughput screening and systems biology Summaries of how these techniques and methods are used to discover new central nervous system agents antiviral agents respiratory drugs oncology drugs and more Specific approaches to drug discovery including problems that are encountered solutions to these problems and limitations of various methods and techniques The thorough coverage and practical scientifically valid problem solving approach of Drug Discovery Handbook will serve as an invaluable aid in the complex task of developing new drugs **Numerical Guide to CRC Handbooks** ,1991

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