

A positive affective neuroendocrinology approach to reward and behavioral dysregulation

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Emerging lines of research suggest that both testosterone and maladaptive reward processing can modulate behavioral dysregulation. Yet, to date, no integrative account has been provided that systematically explains neuroendocrine function, dysregulation of reward, and behavioral dysregulation in a unified perspective. This is particularly important given specific neuroendocrine systems are potential mechanisms underlying and giving rise to reward-relevant behaviors. In this review, we propose a forward-thinking approach to study the mechanisms of reward and behavioral dysregulation from a positive affective neuroendocrinology (PANE) perspective. This approach holds that testosterone increases reward processing and motivation, which increase the likelihood of behavioral dysregulation. Additionally, the PANE framework holds that reward processing mediates the effects of testosterone on behavioral dysregulation. We also explore sources of potential sex differences and the roles of age, cortisol, and individual differences within the PANE framework. Finally, we discuss future prospects for research questions and methodology in the emerging field of affective neuroendocrinology.

Keywords: testosterone, cortisol, emotion, affect, reward, self-regulation, sex differences

Introduction

In recent decades, separate lines of research have investigated the psychological, neural, and neuroendocrine mechanisms of behavioral dysregulation, defined here as appetitive, risky behaviors, such as sexual risk-taking (e.g., unprotected sex), dangerous driving, risky financial decision making, and substance use. Two bodies of research of relevance have independently examined the hormonal mechanisms of behavioral dysregulation. One perspective investigates the hormonal predictors and mechanisms (particularly testosterone), while another has focused on reward dysregulation, defined by researchers as the pursuit of pleasurable feelings and stimuli and heightened responsiveness to positive, reward-related stimuli [e.g., Ref. (1–3)]. As we argue, these systems share overlapping psychological and physiological mechanisms, yet have not been simultaneously deployed to understand behavioral dysregulation. Thus, there is a need to integrate these disparate lines of work into a common theoretical framework. This framework should not only be consistent with extant findings but also make novel predictions to be tested in future research.

In this paper, we propose a forward-thinking approach to study reward motivation and behavioral dysregulation, referred to as the positive affective neuroendocrinology (PANE) approach. The PANE approach incorporates existing research in the hormonal mechanisms of behavioral dysregulation with research on reward dysregulation and related positive affectivity. This approach suggests that reward

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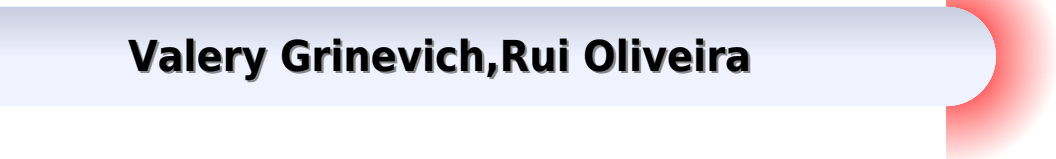
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Neuroendocrinology An Integrative Approach

Valery Grinevich, Rui Oliveira



Neuroendocrinology An Integrative Approach:

Neuroendocrinology David A. Lovejoy, 2005-11-01 There has been an explosion of interest in the field of neuroendocrinology over the last twenty years with the discovery of neurohormones regulating virtually everything from growth and development to sexual and aggressive behavior This book provides a much needed introduction to neuroendocrinology from a zoological and evolutionary perspective It covers the evolution development and description of the neuroendocrine system throughout the animal kingdom Specific topics covered include The Evolution of early neuroendocrine systems in primitive animals Structural characterisation molecular biology and biochemistry of neuroendocrine agents A profiles section on unusual aspects of neuroendocrine physiology written by leaders in the field A unique section on the actions of environmental chemicals effect neuroendocrine systems in various species

Neuroendocrinology ,1999 **Neuroendocrinology** David A. Lovejoy, 2013-08-09 **Handbook of Prenatal and Perinatal Psychology** Klaus Evertz, Ludwig Janus, Rupert Linder, 2020-10-27 The handbook synthesizes the comprehensive interdisciplinary research on the psychological and behavioral dimensions of life before during and immediately after birth It examines how experiences during the prenatal period are associated with basic physiological and psychological imprints that last a lifetime and explores the ways in which brain networks reflect these experiences Chapters offer findings on prenatal development fetal programming fetal stress and epigenetics In addition chapters discuss psychotherapy for infants before during and after birth as well as prevention to promote positive health and well being outcomes Topics featured in this handbook include Contemporary environmental stressors and adverse pregnancy outcomes The psychology of newborn intensive care Art therapy and its use in treating prenatal trauma The failures and successes of Cathartic Regression Therapy Prenatal bonding and its positive effects on postnatal health and well being The role of family midwives and early prevention The cultural meaning of prenatal psychology The Handbook of Prenatal and Perinatal Psychology is an essential resource for researchers clinicians and related professionals as well as graduate students in a wide range of interrelated disciplines including developmental psychology pediatric and obstetrical medicine neuroscience infancy and early child development obstetrics and gynecology nursing social work and early childhood education **An Introduction to Neuroendocrinology**

, **Neuroendocrinology** ,1992 **Evolutionary and Comparative Neuroendocrinology** Valery Grinevich, Rui Oliveira, 2025-05-10 This book delves into the intricate journey of neuroendocrine evolution from its rudimentary origins in single celled organisms to the complex systems found in mammals It offers a comprehensive exploration of how neuropeptides and their receptors have evolved highlighting the pivotal role of the hypothalamus and pituitary gland in this process Key concepts covered include the evolution of neuropeptide signaling insights from invertebrate hypothalamic pituitary systems and the functional trajectories of ancient peptide ligand receptor systems The book addresses critical questions such as the organization and evolution of neurotransmitter volume transmission the form and function of growth

hormone releasing hormone across vertebrates and the co evolution of neuroendocrine signaling dyads Chapters on the melanocortin system corticotropin releasing hormone and nonapeptide regulation of social behavior in teleost fish provide a deep dive into specific pathways and their evolutionary significance Aimed at researchers and professionals in neuroscience endocrinology and evolutionary biology this text serves as an invaluable resource for anyone interested in the comparative anatomy and physiology of neuroendocrine systems This is the seventeenth volume in the International Neuroendocrine Federation INF Masterclass in Neuroendocrinology series which aims to illustrate the highest standards and highlight the latest technologies in basic and clinical research and aspires to provide inspiration for further exploration into the exciting field of neuroendocrinology Neuroendocrinology of Behavior and Emotions Heather K. Caldwell, H. Elliott

Albers, 2024-03-22 This volume highlights current research on how the neuroendocrine system helps to influence emotional states and ultimately behavioral output Social relationships and context appropriate behavioral responses are important for the survival of most vertebrate species These relationships can range from transient social interactions to strong social bonding between sexual partners and social behaviors can be observed and evaluated from the individual to the group level Further behavioral output is shaped by complex interactions between the physical environment genetics experience and context and are often modulated by the neuroendocrine system In this book experts in the field will provide a sweeping look at novel research in the neuroendocrine regulation of important behaviors ranging from parental care to social homeostasis with a focus on comparative studies across vertebrate species The first part of the book is dedicated to the neuroendocrinology of relationships including the coordination of acoustic signals in songbirds the complexity of social relationships in primates and cooperation and parenting in humans The second part of the book focuses on social behaviors and provides some insights into their regulation including the neuroendocrine regulation of maternal behavior in rodents the roles of oxytocin and vasopressin in the modulation of sex specific social behavior the interactions between adult neurogenesis the neuroendocrine system and social behavior and a consideration of neuroendocrine influences on reproductive decision making across species The book concludes with a section on environmental influences on neuroendocrine systems underlying behavior including how social isolation and endocrine disrupting chemicals affect the neuroendocrinology of behavior and emotions Given its breadth this volume is appropriate for undergraduate students graduate students postdoctoral researchers and established researchers who are interested in neuroendocrinology and behavior This is the sixteenth volume in the International Neuroendocrine Federation INF Masterclass in Neuroendocrinology series which aims to illustrate the highest standards and highlight the latest technologies in basic and clinical research and aspires to provide inspiration for further exploration into the exciting field of neuroendocrinology

Advances in Invertebrate (Neuro)Endocrinology (2-volume set) Saber Saleuddin, Angela B. Lange, Ian Orchard, 2020-05-13
Advances in Invertebrate Neuro Endocrinology A Collection of Reviews in the Post Genomic Era 2 volume set provides an

informative series of reviews from expert scientists who are at the forefront of their research into the endocrinology of invertebrates. These two volumes are timely and appropriate in this post genomic era because of the rapid pace of change brought about by genome projects, functional genomics and genetics omics technologies. The volume shows the rich history and strong tradition of cutting edge research using invertebrates that has opened up our broader understanding of comparative endocrinology and the evolution of regulatory pathways and systems. These reviews set the scene and context for this exciting new era of understanding that has come from this post genomic revolution. This book undertakes the daunting task of covering most of the diverse endocrine systems that exist among invertebrates. The papers in this book will advance our knowledge of invertebrate endocrinology but also of endocrinology in general, making the book will be valuable to researchers and students.

Neuroendocrinology in Physiology and Medicine P. Michael Conn, Marc E.

Freeman, 1999-10-06 A panel of leading experts integrate the latest findings from basic and clinical science to create a comprehensive treatment of the processes by which the brain acts as an endocrine organ not only to control hormonal functions but also to maintain homeostasis and regulate behavior. The authors, recognized both as leaders in their fields and as skilled teachers, provide systematic coverage of the analytical, anatomical, functional, clinical and pathological aspects of neuroendocrinology. Topics range from the interactions between the nervous and endocrine systems to the regulation of reproduction, development, metabolism, fluid balance and biological rhythms. *Neuroendocrinology in Physiology and Medicine* offers an unprecedented marriage of clinical and basic knowledge that has been missing from classical neuroscience, endocrinology and physiology texts. It will teach today's medical students and serve researchers as a valuable reference to this rapidly growing field.

Neuroendocrinology An Integrative Approach Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Neuroendocrinology An Integrative Approach**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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