

Control of the onset of puberty

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Purpose of review

The mechanism of puberty initiation remains an enigma, despite extensive research in the field. Pulsatile pituitary ganadatropin secretion under the guidance of hypothalamic ganadatropin-releasing hormone [GnRH] constitutes a sine qua non for pubertal onset. In turn, the secretion of GnRH in the human hypothalamus is regulated by kisspeptin and its receptor as well as by permissive or opposing signals mediated by neurokinin B and dynorphin acting on their respective receptors. These three supra-GnRH regulators compose the Kisspeptin, Neurokinin B and Dynorhin neurons [KNDy] system, a key player in pubertal onset and progression.

Recent findings

The recent discovery that maker in ring finger protein 3 is also involved in puberty initiation provided further insights into the regulation of the KNDy pathway. In fact, the inhibitory (y-amino butyric acid, neuropeptide Y, and RFamide-related peptide-3) and stimulatory signals (glutamate) acting upstream of KNDy called into question the role of maker in ring finger protein 3 as the gatekeeper of puberty. Meanwhile, the findings that 'neuroestradio' produced locally and endocrine disruptors from the environment may influence GnRH secretion is intiguing. Finally, epigenetic mechanisms have been implicated in pubertal onset through recently discovered mechanisms.

Summary

The exact molecular machinery underlying puberty initiation in humans is under intensive investigation. In this review, we summarize research evidence in the field, while emphasizing the areas of uncertainty and underlining the impact of current information on the evolving theory regarding this fascinating phenomenon.

Keywords

epigenetics, yamino butyric acid, gonadorropin releasing hormone, inhibitory makorin ring finger protein 3, kisspeptin, KNDy system, neuropeptide Y, Rfamide-related peptide-3

INTRODUCTION

Puberty, the process of the maturation of a child intoa sexually mature adult, is accompanied by a growth spurt and development of secondary sexual characteristics. It is clinically expressed by a cascade of morphologic, physiologic, and behavioral changes, all because of a gradual, progressive increase of gonadal activity. The mammalian reproductive system is vitally dependent upon pulsatile gonadotropin-releasing hormone (GnRH) release by a small population of GnRH neurons, which extend axons from the preoptic area and the infundibular nucleus (IFN) of the hypothalamus. These neurons act as the common output pathway integrating several internal and external cues, giving rise to pulsatile GnRH secretion, which subsequently regulates the pituitary-gonadal axis. The gradual rise of sex steroids signals puberty initiation and leads to development of secondary sexual characteristics [1"].

The most striking feature of sexual development in primates is the long interval from birth until the initiation of the pubertal process, even though GnRH neurons are already mature at birth. Indeed, during the infantile period after birth, GnRH pulsatility is robust but subsequently decreases during childhood, recommencing at puberty [2]. It was initially believed that sex steroids sent an inhibitory signal to the hypothalamus during the juvenile period, an assumption based on experiments carried out in rodents. in which GnRH function is

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Curr Opin Pediatr 2016, 28:551-558 DOI:10.1092/MOP.0000000000000386

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Handbook of Psychology, Developmental Psychology Irving B. Weiner, Donald K. Freedheim, 2003-01-03 This work provides an overview of cognitive intellectual personality and social development across the lifespan with attention to infancy early childhood middle childhood adolescence and early middle late adulthood Chapters cover a broad range of core topics including language acquisition identity formation and the role of family peers school and workplace influences on continuity and change over time **GnRH: The Master Molecule of Reproduction** Andrea C. Gore, 2002-04-30 Gonadotropin releasing hormone GnRH cells are the key regulators of reproductive function in all vertebrate organisms The GnRH molecule is synthesized in a small number of neurons in rostral hypothalamic regions of the brain In mammals these neurons release the GnRH decapeptide into the portal capillary system leading to the anterior pituitary gland There GnRH causes the release of the gonadotropins luteinizing hormone LH and follicle stimulating hormone FSH which in turn act upon the gonads to stimulate their maturation and to cause synthesis of sex steroid hormones estrogen progesterone and testosterone Although each of the levels of the hypothalamic pituitary gonadal axis is critical for reproductive function GnRH neurons play the primary role in the control of reproductive maturation and adult reproductive function and may even play a role in reproductive senescence Since its discovery in 1970 there has been intense interest in GnRH producing neurons with more

than 8000 papers and chapters in the last decade alone Despite this activity of research in basic and clinical science there has never been a book written specifically on GnRH neurons GnRH The Master Molecule of Reproduction aims to bring together the large and diverse literature of both laboratory and applied research that focuses on these unique cells This book will provide basic background into reproductive neuroendocrinology as well as specifics regarding the role of GnRH neurons in the control of reproduction Students studying endocrinology reproduction neuroendocrinology or molecular endocrinology will benefit from this book In addition this book will take a multi species approach which will be useful both to basic researchers as well as clinicians Whenever possible species differences and similarities will be presented and if possible studies on humans or the clinical relevance of basic research findings to humans will be discussed such as the treatment of reproductive disorders such as abnormalities in pubertal development or infertility Hormones, Brain and Behavior ,2016-11-09 Hormones Brain and Behavior Third Edition offers a state of the art overview of hormonally mediated behaviors including an extensive discussion of the effects of hormones on insects fish amphibians birds rodents and humans Entries have been carefully designed to provide a valuable source of information for students and researchers in neuroendocrinology and those working in related areas such as biology psychology psychiatry and neurology This third edition has been substantially restructured to include both foundational information and recent developments in the field Continuing the emphasis on interdisciplinary research and practical applications the book includes articles aligned in five main subject sections with new chapters included on genetic and genomic techniques and clinical investigations This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics The topics cover an unusual breadth from molecules to ecophysiology ranging from basic science to clinical research making this reference of interest to a broad range of scientists in a variety of fields Comprehensive and updated coverage of a rapidly growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth of topics and subject fields ranging from molecules to ecophysiology and from basic science to clinical research Ideal resource for interdisciplinary learning and understanding in the fields of hormones and behavior **Knobil and Neill's Physiology of Reproduction** Ernst Knobil, Jimmy D. Neill, 2006 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 The Control of the Onset of Puberty III Henriette A. Delemarre-Van de Waal,1989 Reproductive Technologies in Farm

Animals, 2nd Edition Ian Gordon, 2017-06-23 Building on the successful structure of the first edition the second edition of Reproductive Technologies in Farm Animals has been totally updated and revised to provide an up to date account of the key techniques employed in manipulating reproduction in farm animals including beef and dairy cattle pigs sheep goats buffaloes camelids horses and poultry A classic introductory text to the subject the book is based on a comprehensive review of the current literature This text remains key reading for students in animal science agriculture veterinary medicine and biology and veterinary practitioners and farmers who wish to keep updated on developments in techniques that may be useful in their daily practice 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

Reproductive Biology of Teleost Fishes Robert J. Wootton, Carl Smith, 2014-10-17 Reproductive Biology of Teleost Fishes is the first integrated review of the reproductive biology of the bony fishes which are the most species rich and diversified group of vertebrates Teleosts display remarkable variation in their modes of reproduction and this volume is intended to provide a framework for understanding the remarkable reproductive diversity of this group It describes their reproductive biology using wherever possible phylogenetic analyses and life history theory as a means to interpret the information The book addresses the genetic physiological behavioural ecological evolutionary and applied aspects of teleost reproduction in a comparative framework that emphasises the adaptive basis of reproductive diversity Reproductive Biology of Teleost Fishes provides a comprehensive synthesis of fish reproduction that will be of great interest to life scientists particularly ecologists evolutionary biologists physiologists and advanced undergraduates postgraduates and research workers requiring a comprehensive overview of fish reproduction The book is suitable for courses in fish biology and ecology reproductive physiology and reproductive genetics It also addresses applied questions and will be of value for courses on fisheries science and aquaculture Libraries in all universities and research establishments where biological sciences fisheries science and

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