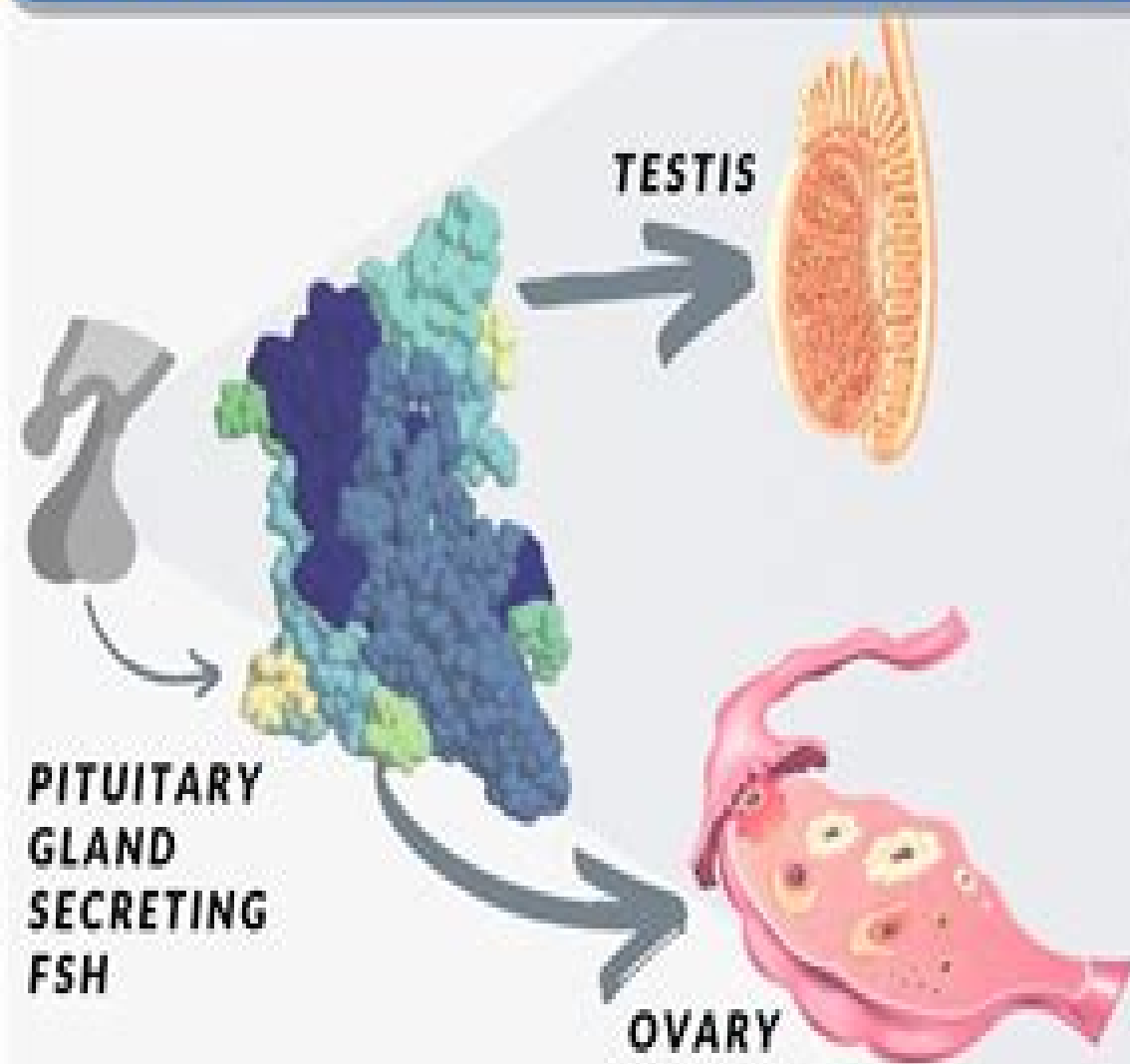


# Follicle-stimulating hormone



Follicle-stimulating hormone (FSH) is a gonadotropin involved in the regulation of pubertal maturation and reproductive processes.

For example:

- In males, FSH activates Sertoli cells to sustain spermatogenesis
- In females, FSH initiates follicular growth



# Follicle Stimulating Hormone Regulation

**TD Snyder**



## **Follicle Stimulating Hormone Regulation:**

*Follicle Stimulating Hormone* Mary Hunzicker-Dunn, Neena B. Schwartz, 2012-12-06 The chapters in this book represent presentations at the first meeting ever held on the regulation and actions of follicle stimulating hormone The meeting took place on the campus of Northwestern University Evanston Illinois from October 25 to 28 1990 The idea for this meeting was conceived by Neena B Schwartz and the valuable advice of the organizing committee contributed greatly to its scientific success We gratefully acknowledge the funding and coordination of this meeting by Serono Symposia USA We also wish to acknowledge the financial contributions made by Northwestern University We especially thank the invited speakers poster presenters and discussion participants who provided the science interest and enthusiasm that made this meeting on FSH a success MARY HUNZICKER DUNN NEENA B SCHWARTZ vii Contents Preface vii Contributors xv 1 An Overview of FSH Regulation and Action ULRIKE LUDERER AND NEENA B SCHWARTZ Part I Neuroendocrinology of FSH Secretion 2 Modulation of Gonadotropin Secretion by Proteins of the Inhibin Family Studies in the Female Rat 29 CATHERINE RIVIER AND WYLIE VALE 3 Control of Follicle Stimulating Hormone Secretion in the Male Rhesus Monkey *Macaca mulatta* 40 TONY M PLANT 4 The Physiology of Puberty in Seasonally Breeding Birds 54 BRIAN K FOLLETT 5 Hypothalamic Regulation of FSH Secretion 66 JON E LEVINE LISA A CONAGHAN ULRIKE LUDERER AND FRANK J STROBL 6 Photoperiodic Control of Reproduction in Male Hamsters Role of FSH in Early Stages of Photo stimulation 83 FRED W TUREK AND NEENA B

**Follicle-Stimulating Hormone: Fertility and Beyond** Manuela Simoni, Ilpo Huhtaniemi, Livio Casarini, Daniele Santi, 2019-11-20 Propagating life to the next generation is a hormone dependent process relying on the individual wish to generate own progeny and resulting in maintenance of species Follicle Stimulating Hormone FSH is a key reproductive hormone in vertebrates used as a drug in the treatment of human infertility and hypogonadism The FSH FSH receptor system began to be characterized in its essential functioning mechanism only in the last couple of decades i e long after the clinical use of the hormone Some novel intriguing aspects of FSH function are now emerging This eBook contains the most recent scientific advances about FSH and its receptor contributed by the world leaders of the field *Biomedical Index to PHS-supported Research* ,1987 *Biomedical Index to PHS-supported Research: pt. A. Subject access A-H* ,1994

**Hormone Action and Signal Transduction in Endocrine Physiology and Disease** László Hunyady, Tamas Balla, 2020-10-30 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 **Knobil and Neill's Physiology of Reproduction** Ernst Knobil, 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 principles 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. Bibliographies of chapters are extensive and cover all the relevant literature.

**Hormones, Brain and Behavior** Donald W. Pfaff, Different Mechanisms Regulate Follicle-stimulating Hormone During the Periovulatory Period in Cattle James M. Haughian, 2002

**Fundamentals of Toxicologic Pathology** Matthew A. Wallig, Wanda M. Haschek, Colin G. Rousseaux, 2009-11-23

Toxicologic pathology integrates toxicology and the disciplines within it such as biochemistry, pharmacodynamics, and risk assessment to pathology and its related disciplines such as physiology, microbiology, immunology, and molecular biology. **Fundamentals of Toxicologic Pathology**, Second Edition, updates the information presented in the first edition, including five entirely new chapters addressing basic concepts in toxicologic pathology along with color photomicrographs that show examples of specific toxicant-induced diseases in animals. The current edition also includes comparative information that will prove a valuable resource to practitioners, including diagnostic pathologists and toxicologists. 25% brand new information, fully revised throughout. New chapters: Veterinary Diagnostic Toxicologic Pathology, Clinical Pathology Nomenclature, Terminology for Morphologic Alterations, Techniques in Toxicologic Pathology. New color photomicrographs detailing specific toxicant-induced diseases in animals. Mechanistic information integrated from both toxicology and pathology, discussing basic mechanisms of toxic injury and morphologic expression at the subcellular, cellular, and tissue levels.

Bibliography of Medical Reviews, 1976      *Cumulated Index Medicus*, 1994      **Population Sciences**, 1976      **Studies on the Hypothalamic Regulation of Follicle-stimulating Hormone Release** James Carlton Mittler, 1966      **Medical Physiology** Rodney A. Rhoades, David R. Bell, 2012-01-18

**Medical Physiology** presents the physiological concepts essential to clinical medicine. Each chapter provides conceptual diagrams to facilitate comprehension of difficult concepts and presents both normal and abnormal clinical conditions to illustrate how physiology serves as an important basis for diagnosis and treatment. Hallmark pedagogical features emphasize problem-solving skills and promote review and retention. Clinical Focus and From Bench to Bedside boxes, a comprehensive glossary, and online USMLE-style review questions with answers and explanations. Companion web site offers additional resources for students: question bank, animations, searchable text, and faculty image and test banks. PowerPoint slides for use in class.

*Knobil and Neill's Physiology of Reproduction* Tony M. Plant, Anthony J. Zelenik, 2014-11-15

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

**Yen & Jaffe's Reproductive Endocrinology - E-Book** Jerome F. Strauss, Robert L. Barbieri, Anuja Dokras, Carmen J Williams, S. Zev Williams, 2023-03-24 For over 40 years Yen Recurrent Pregnancy Loss Uterus Transplantation Mitochondrial Transplantation and Gene Editing and Germs Cells Developed In Vitro Provides extensively revised information on contemporary practices in assisted reproduction fertility preservation and ovulation induction Provides an online video library that highlights surgical procedures diagnostic imaging and functional ultrasound imaging Adds three new members to the exceptional editorial team Drs Anuja Dokras Carmen J Williams and Zev Williams Features full color high quality illustrations that clearly depict basic anatomic structures endocrine processes and cell function and dysfunction Includes bulleted lists under major headings in each chapter for quick at a glance summaries of every section Lists Top References at the end of each chapter that distill the most important references for research underpinnings to complement the complete online reference list An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud **The Male Birth Control Pill**, 1977 **Research Awards Index**, 1989 **Intraovarian Control Mechanisms** Cornelia P. Channing, Sheldon J. Segal, 2013-03-09 [The Pituitary](#) Shlomo Melmed, 2010-12-09 The pituitary albeit a small gland is known as the master gland of the endocrine system and contributes to a wide spectrum of disorders diseases and syndromes Since the publication of the second edition of The Pituitary in 2002 there have been major advances in the molecular biology research of pituitary hormone production and action and there is now a better understanding of the pathogenesis of pituitary tumors and clinical syndromes resulting in perturbation of pituitary function There have also been major advances in the clinical management of pituitary disorders Medical researchers and practitioners now better understand the morbidity and mortality associated with pituitary hormone hyposecretion and hypersecretion Newly developed drugs and improved methods of delivering established drugs are allowing better medical management of acromegaly and prolactinoma These

developments have improved the worldwide consensus around the definition of a cure for pituitary disease especially hormone hypersecretion and hence will improve the success or lack of success of various forms of therapy It is therefore time for a new edition of The Pituitary The third edition will continue to be divided into sections that summarize normal hypothalamic pituitary development and function hypothalamic pituitary failure and pituitary tumors additional sections will describe pituitary disease in systemic disorders and diagnostic procedures including imaging assessment of the eyes and biochemical testing The first chapter will be completely new placing a much greater emphasis on physiology and pathogenesis Two new chapters will be added on the Radiation and Non surgical Management of the Pituitary and Other Pituitary Lesions Other chapters will be completely updated and many new author teams will be invited The second edition published in 2002 and there have been incredible changes in both the research and clinical aspects of the pituitary over the past 8 years from new advances in growth hormones to pituitary tumor therapy Presents a comprehensive translational source of information about the pituitary in one reference work Pituitary experts from all areas of research and practice take readers from the bench research cellular and molecular mechanism through genomic and proteomic analysis all the way to clinical analysis histopathology and imaging and new therapeutic approaches Clear presentation by endocrine researchers of the cellular and molecular mechanisms underlying pituitary hormones and growth factors as well as new techniques used in detecting lesions within the organ and other systemic disorders Clear presentation by endocrinologists and neuroendocrine surgeons of how imaging assessment of the eyes and biochemical testing can lead to new therapeutic approaches

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web feb 16 2021 in simple terms all the field input and output devices are wired to the plc and the ladder logic program decides what outputs to trigger depending on the status of the input signals in basic terms plcs execute ladder logic by first reading all the input states and storing them into memory

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web sep 4 2017 ladder logic also known as ladder diagram or ld is a programming language used to program a plc programmable logic controller it is a graphical plc programming language which expresses logic operations with symbolic notation ladder logic is made out of rungs of logic forming what looks like a ladder hence the name

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web mar 11 2020 during the program scan cycle the plc reads the inputs solves the ladder logic and energizes or de energizes outputs because inputs can change at any time this process repeats over and over again while the plc is in run mode the diagram below shows a model of the plc program scan cycle

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