

SECOND EDITION

**Reproduction in mammals : 3**

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# **Hormonal control of reproduction**

**Austin & Short**



# Reproduction In Mammals Vol 3 Hormonal Control Of Reproduction

**Volker Blüm**



### **Reproduction In Mammals Vol 3 Hormonal Control Of Reproduction:**

*Reproduction in Mammals: Volume 3, Hormonal Control of Reproduction* Colin Russell Austin, Roger Valentine Short, 1982 In this our Second Edition of *Reproduction in Mammals* we are responding to numerous requests for a more up to date and rather more detailed treatment of the subject The First Edition was accorded an excellent reception but the first five books were written ten years ago and inevitably there have been advances on many fronts since then As before the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research Our authors have been selected from among the best known in their respective fields This volume discusses the manifold ways in which hormones control the reproductive processes in male and female mammals The hypothalamus regulates both the anterior and posterior pituitary glands whilst the pineal can exert a modulating influence on the hypothalamus The pituitary gonadotrophins regulate the endocrine and gametogenic activities of the gonads and there are important local feedback effects of hormones within the gonads themselves Non pregnant females display many different types of oestrous or menstrual cycles and there are likewise great species differences in the endocrinology of pregnancy But the hallmark of mammals is lactation and this also exerts a major control on subsequent reproductive activity

**Reproduction in Mammals: Volume 5, Manipulating Reproduction** Colin Russell Austin, 1986-12-11 In this our second edition of *Reproduction in Mammals* we are responding to numerous requests for a more up to date and rather more detailed treatment of the subject The first edition was accorded an excellent reception but Books 1 to 5 were written some 14 years ago and inevitably there have been many advances on many fronts since then As before the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research Our authors have been selected from among the best known in their respective fields Book 5 is concerned with the many ways in which we can now manipulate reproductive processes in animals and humans thanks to our new understanding of hormone action and improved control over early developmental events We have at our disposal a whole array of synthetic hormone agonists antagonists and antibodies that can be used at will to stimulate or inhibit fertility in animals and humans alike so that productivity in livestock can be promoted according to plan and child bearing becomes more a matter of choice than chance We can compensate for infertility by in vitro fertilization and embryo transfer and overcome inherent deficiencies by techniques involving embryo manipulation Existing barriers to the dissemination and application of this new found knowledge are discussed in some detail since it is becoming increasingly clear that improvements in the quality of life for people in many developing countries will be long delayed unless they can meet essential needs and call a halt to runaway population growth

**Reproduction in Mammals: Volume 4, Reproductive Fitness** Colin Russell Austin, Roger Valentine

Short, 1985-03-21 In this book we are responding to numerous requests for a more recent and rather more detailed treatment of the subject The first edition was accorded an excellent reception but the Books 1 to 5 were written twelve years ago and inevitably there have been advances on many fronts since then **Hormonal Control of Reproduction** Colin Russell Austin, Roger Valentine Short, 1984 In this our Second Edition of *Reproduction in Mammals* we are responding to numerous requests for a more up to date and rather more detailed treatment of the subject The First Edition was accorded an excellent reception but the first five books were written ten years ago and inevitably there have been advances on many fronts since then As before the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research Our authors have been selected from among the best known in their respective fields This volume discusses the manifold ways in which hormones control the reproductive processes in male and female mammals The hypothalamus regulates both the anterior and posterior pituitary glands whilst the pineal can exert a modulating influence on the hypothalamus The pituitary gonadotrophins regulate the endocrine and gametogenic activities of the gonads and there are important local feedback effects of hormones within the gonads themselves Non pregnant females display many different types of oestrous or menstrual cycles and there are likewise great species differences in the endocrinology of pregnancy But the hallmark of mammals is lactation and this also exerts a major control on subsequent reproductive activity *Reproduction in Mammals: Volume 3, Hormonal Control of Reproduction* Colin Russell Austin, Roger Valentine Short, 1972-07-27 V 3 Hormonal control of reproduction Cunningham's Textbook of Veterinary Physiology - E-Book T Bradley G. Klein, 2019-01-03 Learn how to understand normal body functions before learning about the mechanisms of veterinary disease Cunningham's Textbook of Veterinary Physiology 6th Edition approaches this vast subject in a practical user friendly way that helps you grasp key concepts and learn how they relate to clinical practice From cell physiology to body system function to homeostasis and immune function this comprehensive text provides the solid foundation needed before advancing in the veterinary curriculum Expanded resources on the companion Evolve website include state of the art 3D animations practice tests a glossary and Clinical Correlations Clinical Correlations boxes present case studies that illustrate how to apply physiology principles and concepts to the diagnosis and treatment of veterinary patients Practice questions at the end of each chapter test your understanding of what you've just read and provide valuable review for exams Key Points at the beginning of each chapter introduce new concepts and help you prepare for exams Full color format highlights helpful information and enhances learning with a wealth of illustrations that visually depict specific functions and conditions NEW Updated animations added that are relevant to content NEW New contributors lend their unique perspective and expertise to the content **Mammalian Reproductive Biology** F. H. Bronson, 1989 A unique interdisciplinary overview of the way mammals reproduce this volume synthesizes research done by laboratory

physiologists behaviorists population ecologists and animal breeders F H Bronson has drawn together the disparate literature in these areas to provide students and researchers with a comprehensive and biologically integrated approach to the study of mammalian reproduction Each chapter presents a wealth of issues and questions summarizing the current consensus on interpretations as well as viable alternatives under debate The book is principally concerned with how environmental factors regulate reproduction Bronson proposes that a mammal s reproductive performance routinely reflects simultaneous regulation by several environmental factors that interact in fascinatingly complex ways Environment is defined broadly and the chapters give equal weight to ecological and physiological factors when considering how variables such as food availability ambient temperature photoperiod and social cues interact to regulate a mammal s reproduction Particular attention is given to seasonal breeding and a taxonomically arranged chapter underscores the importance of comparative and evolutionary biology to an understanding of mammalian reproduction Mammalian Reproductive Biology is a powerful argument for the value and importance of interdisciplinary approaches to research Its almost 1 500 references constitute the most comprehensive bibliography to date on this topic Bronson also gives detailed consideration to promising areas for future research Well organized carefully planned and clearly written this book will become standard reading for scientists concerned with any aspect of mammalian biology

**Dynamics of Human Reproduction** James W. Wood,2017-09-29

Awarded the W W Howells Award for the Outstanding Book in Biological Anthropology this volume presents a comprehensive integrated and up to date overview of the major physiological and behavioral factors affecting human reproduction In attempting to identify the most important causes of variation in fertility within and among human populations Wood summarizes data from a wide range of societies Trained as an anthropologist as well as a demographer he devotes special attention to so called natural fertility populations in which modern contraceptives and induced abortion are not used to limit reproductive output Such an emphasis enables him to study the interaction of biology and behavior with particular clarity The volume weaves together the physiological demographic and biometric approaches to human fertility in a way that will encourage future interdisciplinary research Instead of offering a general overview the focus is to answer one question Why does fertility and the number of live births vary from couple to couple within any particular population and from population to population across the human species as a whole Topics covered include ovarian function conception and pregnancy intrauterine mortality reproductive maturation and senescence coital frequency and the waiting time to conception marriage patterns and the initiation of reproduction the fertility reducing effects of breastfeeding the impact of maternal nutrition on reproduction and reproductive seasonality This unique combination of comprehensive subject matter and an integrated analytical approach makes the book ideally suited both as a graduate level textbook and as a reference work The Laboratory Rat George J. Krinke,2000-06-20 This reference series will provide all researchers using laboratory animals with comprehensive practical information on the various species Each title in the series is devoted to a particular species and

draws together all available data in a one stop easily accessible source Each has similar format with sections on the strains available their husbandry and special diets Also included are sections on gross anatomy endocrinology and reproduction followed by more detailed sections on neuroanatomy vasculature cell biology and histology of particular organs and structures and a section on molecular biology High quality illustrations are included throughout and a color plate section is provided A glossary list of equipment suppliers and Quick Reference Section are added features The Quick Reference Section brings together all tables from the text allowing readers to find data swiftly The first volume in The Handbook of Experimental Animals Series The Laboratory Rat provides researchers in academia and industry using laboratory animals with comprehensive practical information on the species The Laboratory Rat has been divided into eight sections dealing with Strains and their selection for research Housing and maintenance Pathogens and diseases Breeding and reproduction Anatomy Physiology Procedures including experimental surgery Emerging techniques including genetic engineering and molecular technology

**Key Features** Provides a valuable comprehensive reference source for anybody working with the laboratory rat Formatted in a two color user friendly layout Includes high quality illustrations throughout as well as a color plate section Glossary Tables in the text are also arranged into one Quick Reference Section for ease of access to the data Appendix of equipment suppliers

Hormones and Reproduction of Vertebrates, Volume 3 David O. Norris, Kristin H. Lopez, 2024-08-05 Hormones and Reproduction of Vertebrates Volume 3 Reptiles is the third of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of reptilian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on reptiles Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to testicular and ovarian function Subsequent chapters examine hormones and reproduction of specific taxa including turtles crocodilians lizards and snakes The book concludes with an examination of endocrine disruption of reproduction in reptiles

Hormones and Reproduction of Vertebrates Volume 3 Reptiles is designed to provide a readable coordinated description of reproductive basics in reptiles as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of herpetology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior and anatomy of reptile reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on turtles crocodilians lizards and snakes Provides new coverage on environmental influences on reptiles

*Hormones and*

*Reproduction of Vertebrates, Volume 3* David O. Norris, Kristin H. Lopez, 2011-05-04 This series of volumes represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals. It is designed to provide a readable coordinated description of reproductive basics in each group of vertebrates as well as an introduction to the latest trends in reproductive research and our understanding of reproductive events. Whereas each chapter and each volume is intended to stand alone as a review of that topic or vertebrate group respectively, the volumes are prepared so as to provide a thorough topical treatment across the vertebrates. Terminology has been standardized across the volumes to reduce confusion where multiple names exist in the literature and a comprehensive glossary of these terms and their alternative names is provided. A complete essential and up-to-date reference for research scientists working on vertebrate hormones and reproduction and on animals as models in human reproductive research. Covers the endocrinology, neuroendocrinology, physiology, behaviour, and anatomy of vertebrate reproduction. Structured coverage of the major themes for all five vertebrate groups allows a consistent treatment for all. Special chapters elaborate on features specific to individual vertebrate groups and to comparative aspects, similarities and differences between them. **Metabolic and Endocrine**

**Physiology, Third Edition** Larry Engelking, Alan H. Rebar, 2012-08-15 This book is intended to give readers a quick look at metabolic and endocrine physiology. Emphasis is placed on instructional figures, flow diagrams, and tables while text material has been held to a minimum. In general, the endocrine system is first defined and described and then each endocrine gland is discussed separately. Where appropriate, common endocrine disorders have also been included. This text concisely elucidates the endocrine mechanisms responsible for maintaining homeostatic control of important physiologic variables and to assist the reader in understanding common pathophysiologic deviations from normal. Over 360 multiple choice questions gauge the reader's capacity to effectively understand the subject material. This new edition contains six new chapters covering hormone disposition, measurement, and secretion; bovine, equine, and rodent estrus cycles; primate menstrual cycle; male reproductive system; testosterone, estrogen, and progesterone; comparative aspects of endocrinology. Learning objectives have been added at the beginning of each chapter and all of the questions are new. *Human Reproductive Biology* Mark M.

Jones, 2012-12-02 *Human Reproductive Biology* focuses on the processes, concerns, and trends in human reproduction. Divided into four parts with 19 chapters, the book starts by tracing the history of human reproduction biology and the questions and choices involved. The first part focuses on the male and female reproductive systems. The text notes the different organs involved in reproduction, including the penis, scrotum, vagina, oviducts, and mammary glands. The book discusses sexual development and differentiation, particularly noting the variance of sex ducts and glands, external genitalia, and disorders of sexual development and determination. The text also looks at puberty. Concerns include gonadal changes from birth to puberty, mechanisms that influence puberty, and puberty and psychosocial adjustment. The second part deals with menstrual cycle, fertilization, pregnancy, labor, and birth. Some of the concerns include length of menstrual cycle, absence of menstruation,

transport of sperm and ovum in the oviduct and semen release The text also highlights labor and birthing processes as well as the relationship of neonates and parents The third part looks at the medical aspects of human reproduction infertility and sexually transmitted diseases Concerns include contraception abortion herpes genitalis and vaginitis The text folds with discussions on human sexual behavior population growth and family planning Concerns include sexual dysfunction the effects of overpopulation and population control The book is a vital source of data for readers interested in human reproduction

*Reproduction in Mammals: Volume 1, Germ Cells and Fertilisation* C. R. Austin, 1982-08-05 In this our second edition of *Reproduction in Mammals* we are responding to numerous requests for a more up to date and rather more detailed treatment of the subject The first edition was accorded an excellent reception but Books 1 to 5 were written some 14 years ago and inevitably there have been many advances on many fronts since then As before the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research Our authors have been selected from among the best known in their respective fields Book 5 is concerned with the many ways in which we can now manipulate reproductive processes in animals and humans thanks to our new understanding of hormone action and improved control over early developmental events We have at our disposal a whole array of synthetic hormone agonists antagonists and antibodies that can be used at will to stimulate or inhibit fertility in animals and humans alike so that productivity in livestock can be promoted according to plan and child bearing becomes more a matter of choice than chance We can compensate for infertility by in vitro fertilization and embryo transfer and overcome inherent deficiencies by techniques involving embryo manipulation Existing barriers to the dissemination and application of this new found knowledge are discussed in some detail since it is becoming increasingly clear that improvements in the quality of life for people in many developing countries will be long delayed unless they can meet essential needs and call a halt to runaway population growth

**Vertebrate Reproduction** Volker Blüm, 2012-12-06 Oral birth in the Australian gastric brooding frog *Rheobatrachus sUus* 2 Preface I have deliberately chosen the title picture to the preface which shows the oral birth of a young gastric brooding frog *Rheobatrachus situs* to draw the reader's attention to the preface since I wish to explain why the book was written and illustrated in the way it now appears The book has grown out of the material of a lecture course taking 3 to 4 hours per week each semester that I have given for several years at the Ruhr University Bochum as the theoretical basis for an intensive 4 week practical course on vertebrate reproduction for students of biology For various reasons I am a hardened opponent of giving lecture notes to the students On the other hand I found that my students made great efforts to work through and supplement their own lecture notes by studying the literature However there are no suitable textbooks on vertebrate reproduction written in German and the standard work in this field is now several decades old and deals mainly with mammals The students were therefore often frustrated in their efforts given the limited time they had available I have



therefore decided to present here the most important structural and functional aspects of vertebrate reproduction and include other material to extend the framework of my original lectures

Hormones and Reproduction of Vertebrates, Volume 1 David O. Norris, Kristin H. Lopez, 2011-05-04 This series of volumes represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals It is designed to provide a readable coordinated description of reproductive basics in each group of vertebrates as well as an introduction to the latest trends in reproductive research and our understanding of reproductive events Whereas each chapter and each volume is intended to stand alone as a review of that topic or vertebrate group respectively the volumes are prepared so as to provide a thorough topical treatment across the vertebrates Terminology has been standardized across the volumes to reduce confusion where multiple names exist in the literature and a comprehensive glossary of these terms and their alternative names is provided A complete essential and up to date reference for research scientists working on vertebrate hormones and reproduction and on animals as models in human reproductive research Covers the endocrinology neuroendocrinology physiology behaviour and anatomy of vertebrate reproduction Structured coverage of the major themes for all five vertebrate groups allows a consistent treatment for all Special chapters elaborate on features specific to individual vertebrate groups and to comparative aspects similarities and differences between them

*Primate Sexuality* Alan F. Dixson, 2012-01-26 Primate Sexuality provides an authoritative and comprehensive synthesis of current research on the evolution and physiological control of sexual behaviour in the primates prosimians monkeys apes and human beings This new edition has been fully updated and greatly expanded throughout to incorporate a decade of new research findings It maintains the depth and scientific rigour of the first edition and includes a new chapter on human sexuality written from a comparative perspective It contains 2600 references almost 400 figures and photographs and 73 tables

*The International Encyclopedia of Primatology, 3 Volume Set* Agustín Fuentes, 2017-04-24 The International Encyclopedia of Primatology represents the first comprehensive encyclopedic reference focusing on the behaviour biology ecology evolution genetics and taxonomy of human and non human primates Represents the first comprehensive encyclopedic reference relating to primatology Features more than 450 entries covering topics ranging from the taxonomy history behaviour ecology captive management and diseases of primates to their use in research cognition conservation and representations in literature Includes coverage of the basic scientific concepts that underlie each topic along with the latest advances in the field Highly accessible to undergraduate and graduate students in primatology anthropology and the medical biological and zoological sciences Essential reference for academics researchers and commercial and conservation organizations This work is also available as an online resource at [www.encyclopediaofprimatology.com](http://www.encyclopediaofprimatology.com)

*Sertoli Cell Biology* Michael K. Skinner, Michael D. Griswold, 2004-11-23 Sertoli cells assist in the production of sperm in the male reproductive system This book provides a state of the art update on the topic of sertoli cells and male reproduction It addresses such highly topical areas as stem cells genomics and molecular

genetics as well as provides historical information on the discovery of this type of cell and the pathophysiology of male infertility Presents the state of the art research on topics such as stem cell research transplantation and genomics Includes contributions from leaders in the field including several members of the National Academy of Science

**Hormones and Reproduction of Vertebrates, Volume 5** David O. Norris, Kristin H. Lopez, 2024-08-08 Hormones and Reproduction of Vertebrates Volume 5 Mammals is the fifth of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of reptilian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on mammals Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters introduce the evolution of viviparity and examine pregnancy in eutherian mammals parturition pheromones and behavioral neuroendocrinology Covered taxa include rodents bats and primates The book concludes with an examination of the environmental influences on hormones and reproduction of mammals including endocrine disrupting chemicals and climate change Hormones and Reproduction of Vertebrates Volume 5 Mammals is designed to provide a readable coordinated description of reproductive basics in mammals as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of mammalogy or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior and anatomy of mammalian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on rodents bats primates ungulates carnivores and marine mammals Provides new coverage on endocrine disrupting chemicals and climate change

The Enigmatic Realm of **Reproduction In Mammals Vol 3 Hormonal Control Of Reproduction**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Reproduction In Mammals Vol 3 Hormonal Control Of Reproduction** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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