

Maternal Recognition of Pregnancy

During early pregnancy, the blastocyst must signal its presence to the maternal system to stimulate CL maintenance for establishment of pregnancy.

The term “Maternal Recognition of Pregnancy” (first coined by Short in 1969) is usually associated with prevention of CL regression when applied to domestic species. However, the definition is inappropriate for marsupials and other Eutherian species such as the dog and ferret.

Maternal Recognition of Pregnancy can be defined simply as a functional relationship between the uterus, CL and embryo itself.

In most eutherian mammals, maternal recognition of pregnancy is established when the length of the estrous cycle exceeds that of the normal cycle. The signal which originates from the pre-attached blastocyst acts either directly at the endometrial level (gilt, mare, cow, ewe) or indirectly at the ovarian level (human) to block the action of prostaglandin $F_{2\alpha}$ ($PGF_{2\alpha}$).

Maternal Recognition Of Pregnancy

**Colin Russell Austin, Roger Valentine
Short**



Maternal Recognition Of Pregnancy:

Maternal Recognition of Pregnancy Julie Whelan, 2009-09-16 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world **Maternal Recognition of Pregnancy**, 1979

Maternal Recognition of Pregnancy CIBA Foundation Staff, **Papers from a Symposium on "Successful Maternal Recognition of Pregnancy, Signalling Between the Conceptus and the Maternal System** National Science Foundation (U.S.), Australia. Department of Industry, Technology, and Commerce, 1992 **Clinical Biochemistry of Domestic Animals** Jiro J. Kaneko, John W. Harvey, Michael Bruss, 1997 This updated and expanded Fifth Edition of Clinical Biochemistry of Domestic Animals brings together in a single comprehensive volume all the pertinent information regarding the biochemistry of disease and non disease states in animals Clinical veterinarians and animal scientists now routinely use many of the same diagnostic and therapeutic tools used to identify and treat diseases and metabolic disorders in humans making this book an indispensable teaching learning and application resource for anyone engaged in the care health and welfare of animals This book concentrates on the various rationales and interpretations regarding the biochemistry of disease in animals It includes newly updated chapters with current references and new chapters on clinical toxicology and avian clinical biochemistry Key Features Brings together in a single comprehensive volume all the pertinent information regarding the biochemistry of disease and non disease states in animals Includes newly updated chapters with current references Contains new chapters on clinical toxicology and avian clinical biochemistry Concentrates on the various rationales and interpretations regarding the biochemistry of disease in animals Reproductive Technologies in Farm Animals Ian Gordon, 2004 In the past half century great progress has been made in the reproductive management of farm animals both mammals and birds This book aims to review developments and indicate which reproductive technologies can be used commercially or in research It begins by discussing artificial insemination and how this has recently been refined in semen sexing technology Embryo transfer in vitro embryo production technology and the control of oestrus and ovulation are then reviewed Subsequent chapters consider the control of postpartum ovarian activity seasonal breeding multiple births and litter size pregnancy testing parturition and the onset of puberty The author then describes more recent developments in cloning and the production of transgenic animals before a final chapter on suppressing reproductive activity **Maternal Recognition of Pregnancy in the Mare** Tom Arjun Edgar Stout, 1998 Successful Maternal Recognition of Pregnancy, 1992 *Yen and Jaffe's Reproductive Endocrinology* Jerome Frank Strauss, Robert L. Barbieri, 2009-01-01 Thoroughly revised and now enhanced with color artwork this new edition offers the latest information on the diagnosis and management of reproductive endocrine disorders As an Expert Consult title it includes convenient online access to the complete text of the book along

with all of the images and references linked to Medline

Ovarian Toxicology Patricia B. Hoyer, 2013-04-08 In recent years there has been an alarming increase in environmental by products that may be harmful to ovarian function Along with this dangerous situation the modern trend toward delaying motherhood poses immediate concerns regarding the long term impact of environmental risks on human fertility The uncertainty of our reproductive future intensifies the need for a single reference that investigates the chemicals with the potential to jeopardize fertility The only known text that deals specifically with toxicity in the ovary *Ovarian Toxicology* updates our current understanding of the effects of environmental chemicals on ovarian function This new title in the Target Organ Toxicology Series presents an overview of ovarian physiology examines the key ovarian target sites assesses the effects of specific chemicals demonstrated in animal studies and evaluates related human epidemiological data Featuring the most complete review available of ovarian metabolism of xenobiotics chapters also discuss ovarian cancer and modeling and testing for ovarian effects With its clear handling of data and issues that are crucial to fertility studies this comprehensive exploration of ovarian toxicology identifies the realistic risks for damage that our environment has the potential to inflict It will be welcomed by toxicologists and ovarian physiologists those in the pharmaceutical industries and regulatory agencies and postgraduate researchers striving to safeguard women s fertility and ensure our reproductive future

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

Maternal Recognition of Pregnancy and Maintenance of the Corpus Luteum United States-Israel Binational Agricultural Research and Development Fund, 1989

Neuroendocrine Regulation of Mammalian Pregnancy and Lactation Paula J. Brunton, David R. Grattan, 2024-04-26 Adaptations to maternal physiology are required for a successful pregnancy outcome These changes are primarily orchestrated by the mother s brain and involve multiple neuroendocrine systems For this book

the editors have gathered internationally recognized experts who have contributed to the major advances in our understanding of different aspects of the neuroendocrine regulation of mammalian pregnancy and lactation. The book begins with a discussion of how pregnancy is recognized and maintained and the role of the placental hormones in supporting key adaptations required for a successful pregnancy. The next few chapters focus on the neuroendocrine adaptations that occur during pregnancy in some key regulatory processes to ensure a sufficient supply of energy and nutrients protect the fetus from potentially harmful maternal stress hormones and prepare mammals for birth, milk production, lactation and motherhood. Finally, our current understanding of how the significant peripartum hormonal changes contribute to the mother's cognitive function and mood is examined. This book provides a broad overview of the finely orchestrated neuroendocrine adaptations that occur in pregnancy and lactation and discusses how such changes contribute to maximizing the likelihood of a positive outcome for mother and infant. Importantly, the evidence for involvement of neuroendocrine dysregulation in some pregnancy-related complications such as preterm birth and perinatal mood disorders is also highlighted. In addition to addressing fundamental mechanisms in the regulation of mammalian pregnancy and lactation, the book includes the most recent advances in the field made possible by utilizing the latest innovative research technologies. Moreover, it provides opinions on optimal experimental approaches, relates findings from experimental animal models with those from humans and outlines the direction and opportunities for future research in this arena. It is an essential resource for undergraduate students, postgraduate students and early career researchers embarking upon their journey in the fields of neuroendocrinology, endocrinology, reproductive biology or behavioural neuroscience. It also provides a valuable synopsis for established neuroendocrine researchers and educators, especially those whose interest transcends the nexus between neuroendocrinology and reproductive biology. This is the 15th volume in the International Neuroendocrine Federation (INF) Masterclass in Neuroendocrinology series which aims to illustrate the highest standards and to encourage the use of the latest technologies in basic research and hopes to provide inspiration for further exploration into the exciting field of neuroendocrinology.

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.

Maternal Recognition of Pregnancy and Maintenance of the Corpus Luteum M. Shemesh, Barbara J. Weir, 1989 *Applied Animal Endocrinology, 3rd Edition* E. James Squires, 2024-04-23 This book explains the role of hormones in improving and monitoring the production

performance reproduction behaviour and health of livestock animals focusing on cattle pigs sheep horses poultry and fish Beginning with the principles of endocrinology and the methods to study endocrine systems it then covers the different endocrine systems that affect different aspects of animal production and describes how these systems can be manipulated or monitored to advantage The mechanism of action is covered and common mechanisms and themes highlighted in order to understand potential methods for altering these systems and stimulate ideas for the development of new methods An invaluable text for students of animal science and veterinary medicine this book also provides a useful resource for those in academia and industry interested in applications of endocrinology in animal production systems Arthur's Veterinary Reproduction and Obstetrics - E-Book David E. Noakes, Timothy J. Parkinson, Gary C. W. England, 2018-10-30 As the standard theriogenology text for veterinary students Veterinary Reproduction and Obstetrics is also a great reference to keep post graduation The 10th edition of this book has been thoroughly updated to include normal reproduction and reproductive disorders as well as diseases in the common and less common domestic species dogs cats pigs and horses as well as llamas alpacas and camels This sorely needed information is vital for practicing in underdeveloped countries which lack the technology equipment and personnel offered in the U S With many international contributing authors this one of a kind text includes developments in reproductive biology and endocrinology from across the globe Only textbook covering all major domestic mammalian species ensures you get consistent authoritative advice on all species that experience challenges related to reproduction and obstetrics Only book available that covers all aspects of theriogenology in all major domestic mammalian species recognizes the importance of species from every inch of the globe A practical clinical approach to the content provides you with the instruction you need to improve your clinical proficiency Comparative aspects of theriogenology and obstetrics helps you to see beyond your species of immediate interest and broaden your scope of knowledge and understanding of the discipline Consistent leadership of David Noakes through nine previous editions makes this the most highly regarded text worldwide in this genre NEW Extensive coverage of less common domestic species prepares you to work with these animals in developing countries where they re more common NEW Black and white images replaced with color pictures to optimize full color design and demonstrate specific techniques NEW Additional international contributors provide you with a global multi faceted perspective on a variety of species Embryonic Mortality in Farm Animals J.M. Sreenan, M.G. Diskin, 2012-12-06 Reproductive wastage is a major inefficiency in all livestock production with embryonic mortality accounting for a major portion of this loss Accordingly the Commission of the European Communities encouraged the organisation of a seminar on embryonic mortality in farm animals which was held in Brussels on the 11th and 12th of December 1984 This book contains the text of the papers discussions and final summary presented at that Seminar As a background to the Seminar the extent and timing of embryonic loss was described for farm animals Particular consideration was then given to the various mechanisms and signals both embryonic and uterine in origin that are so far

known to be involved in the establishment of pregnancy Possible causes of embryonic death including physiological endocrinological genetic and immunological components were outlined and discussed The final summary contains general conclusions from the Seminar and recommendations for future research work on this topic J M Sreenan M G Diskin July 1985 THE EXTENT AND TIMING OF EMBRYONIC MORTALITY IN THE COW J M Sreenan M G Diskin The Agricultural Institute Belclare Tuam Galway Ireland ABSTRACT The extent and timing of embryonic mortality in heifers normal cows and repeat breeder cows has been reviewed *Growth Factors in Reproduction* David W. Schomberg, 2012-12-06 The critical role of growth factors in normal as well as abnormal cellular growth and function has become overwhelmingly apparent in recent years The significant advances in reproductive biology within this rapidly expanding field were highlighted at the Sero Symposium USA symposium entitled Growth Factors in Reproduction The conference focused on growth factors as polyfunctional regulators of growth and development in the reproductive system The program was organized into five areas 1 growth factors as polyfunctional regulators of growth and development 2 growth factors and gonadal function 3 regulation of normal and neoplastic mammary growth 4 regulatory peptides in reproductive tract development and function and 5 embryo maternal signaling This volume constitutes the contributions of the invited symposium speakers and is organized into sections representing the five topic areas of the sessions Drs Eli Y Adashi Robert B Dickson David C Lee James Hammond John A McLachlan and R Michael Roberts who served as chairmen of these sessions not only provided invaluable advice and assistance in organizing the symposium but contributed significantly to its content The enthusiasm and esprit de corps of the poster presenters and discussion participants also helped make this symposium succeed as the first of its kind Finally special thanks are due Drs James Posillico and Lisa Kern of Sero Symposium USA for their guidance and support in the conception and planning of the symposium and in the publication of this volume

Current Concepts in Bovine Reproduction A. Kumaresan, A. K. Srivastava, 2022-06-15 This book provides updated information on the current concepts in bovine reproduction It describes the complex issues associated with fertility and infertility in bovines and suggests strategies for achieving high reproductive efficiency It discusses topics related to the fertility trend in bovines estrus detection controlled breeding postpartum uterine health uterine infections and its therapeutic management The essential roles of metabolic hormones on gonadal functions and fertility are also covered Additionally the book presents new insights in maternal recognition of pregnancy in bovines and suggest nutritional strategies to improve reproductive efficiency The chapters on male fertility provide current information on semen cryopreservation sperm quality assessment and measures to improve sperm fertility A special chapter on intricacies in buffalo semen cryopreservation and measures to improve the quality of cryopreserved sperm is also included in this book Lastly the book introduces the immunobiological roles of anti microbial peptides during sperm transport in reproductive tract and epigenetic bearing on fertility This book is an invaluable resource for veterinary scientists students and practitioners to understand the current developments in bovine reproduction for

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