AFECTISE CALF CROP

Biotechnology of Reproduction



Edited by

Michael J. Fields Robert S. Sand • Joel V. Yelich



Factors Affecting Calf Crop Biotechnology Of Reproduction

David J Patterson, Michael T. Smith

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Factors Affecting Calf Crop Michael J. Fields, Robert S. Sand, Joel V. Yelich, 2001-11-21 In today s world we are witnessing simultaneous breakthroughs in reproductive technologies genomics and molecular biology Advances in molecular genetic technology and understanding of the bovine genome have led to the development of tools that can be used to enhance profitability on cow calf enterprises Factors Affecting Calf Crop Biotechnolo Factors Affecting Calf Crop Michael J. Fields, Robert S. Sand, 2021-11-18 Factors Affecting Calf Crop summarizes the latest information available from leading cattle physiologists and geneticists regarding factors known to influence the production of live calves at weaning You get practical information on management techniques for improving reproduction efficiency in the herd You ll also learn about the functioning of the reproductive system and how this may affect reproductive processes in the cow herd Managers will benefit from a clearer understanding of the factors known to limit efficient reproduction while veterinarians and other professionals who advise cattlemen will appreciate the substantial reference material and color photographs for defining cow condition scores Color photographs are also used to illustrate the discussions of testicular thermographies and their applications Other chapters in the book cover developments in improving reproductive performance of the replacement heifer the brood cow and the bull Topics on reproduction include physiology endocrinology the use of growth promotants genetics and physiological and economic considerations in selecting the age to breed heifers heritability of fertility length of the breeding season prepartum and postpartum nutrition nursing by the calf cloning of embryos and much more **Reproduction** in Domestic Ruminants VII M. C. Lucy, J. L. Pate, M. F. Smith, T.E. Spencer, 2011-02-01 The combined work of eminent scientists in the field this compilation contains the latest information on ruminant nutrition from the eighth annual International Ruminant Reproduction Symposium With discussions on how to improve reproduction by applying nutrition and physiology this collection spotlights the recent advances regarding the ruminant genome and includes chapters about specific animals including the dairy buffalo camel and reindeer Encyclopedia of Animal Science - (Two-Volume Set) Wilson G. Pond, Duane E. Ullrey, Charlotte Kirk Baer, 2018-10-08 PRINT ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT e reference taylorandfrancis com Containing case studies that complement material presented in the text the vast range of this definitive Encyclopediaencompasses animal physiology animal growth and development animal behavior animal reproduction and breeding alternative approaches to animal maintenance meat science and muscle biology farmed animal welfare and bioethics and food safety With contributions from top researchers in their discipline the book addresses new research and advancements in this burgeoning field and provides quick and reader friendly descriptions of technologies critical to professionals in animal and food science food production and processing livestock management and nutrition

Laboratory Production of Cattle Embryos Ian Gordon,2003-01-01 3000 new references added since the first editionGives information necessary to produce embryos totally through in vitro techniques Shows commercial applications of

embryo and oocyte researchCattle remain at the forefront of many new developments in reproductive technology and what can be done for the cow today will later be applicable to other farm livestock and perhaps humans This new edition reviews the considerable advances and issues in embryo production technology based on reports since the first edition in 1994 This is a must have volume for those who own the first edition and in itself an incredibly informative text 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 Current Therapy in Large Animal Theriogenology Robert S. Youngquist, Walter R. Threlfall, 2006-10-10 An essential resource for both students and practitioners this comprehensive text provides practical up to date information about normal reproduction and reproductive disorders in horses cattle small ruminants swine llamas and other livestock Featuring contributions from experts in the field each section is devoted to a different large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females Key topics include the evaluation of breeding soundness pregnancy diagnosis diagnosis and treatment of infertility abortion obstetrics surgery of the reproductive tract care of neonates and the latest reproductive technology Includes coverage of all large animal species All sections provide a review of clinically pertinent reproductive physiology and anatomy of males and females of each species Complete coverage of the most current reproductive technology including embryo transfer estrous synchronization and artificial insemination A new section on alternative farming that addresses reproduction in bison elk and deer New to the equine section stallion management infertility and breeding soundness evaluation New to the bovine section estrous cycle synchronization reproductive biotechnology ultrasonographic determination of fetal gender heifer development and diagnosis of abortion New to the porcine section artificial insemination boar stud management diseases of postpartum period and infectious disease control New to the llama section infectious disease and nutrition

Beef Heifer Development, An Issue of Veterinary Clinics: Food Animal Practice David J Patterson, Michael T. Smith, 2013-12-28 The latest information on heifer development in beef cattle for the food animal practitioner Topics include rebuilding the US cowherd physiology and endocrinology of puberty nutritional development and the target weight debate long term reproductive health effect of prenatal programming on development economics of development synchronization of estrus and ovulation post breeding heifer management management strategies for adding value to heifers and more

Reproduction in Domestic Ruminants V Bruce K. Campbell,2003 Reproduction in Domestic Ruminants VI J.

L. Juengel,M. F. Smith,2007 This supplement contains reports on male reproduction ovarian function including follicular development and oocyte cumulus cell function neuroendocrinology corpus luteum function reproductive management reproductive function of deer buffalo yaks and camelids embryo technologies embryo gene expression fetal maternal interactions and fetal development Sperm-mediated Gene Transfer Kevin Richard Smith,2012 Sperm mediated gene transfer SMGT represents a novel set of technologies for animal or in the future human genetic modification using the sperm as a vector as opposed to more traditional established routes such as fertilized eggs or embryonic stem c Wolf Prize in Agriculture Ilan Chet,2009 This specially compiled volume contains contributions from Wolf Prize laureates In agriculture there is no higher prize than the Wolf Prize The book includes a list of publications and the most important papers in plant and animal breeding genetics biochemistry and plant protection biotechnology as well as chemistry and the physics of soils

Reproduction in Domestic Ruminants J. L. Juengel, 2007 **Regulation of Implantation and Establishment of** Pregnancy in Mammals Rodney D. Geisert, Fuller W. Bazer, 2015-10-08 Over the past few decades technological advances in transcriptomics proteomics metabolomics and glycomics along with the ability to selectively knockout genes of interest has greatly advanced our understanding of maternal conceptus interactions that are essential for the establishment and maintenance of a successful pregnancy This knowledge provides a foundation from which to build research endeavors to help resolve infertility embryonic loss and recurrent abortion in humans captive wild animals and important farm species The present volume on Regulation of Implantation and Establishment of Pregnancy in Mammals brings together current reviews from leading experts to address the diversity of mechanisms by which species establish and maintain pregnancy Implantation in rodents dogs pigs cattle sheep horses primates humans and embryonic diapause in wild species are discussed Reviews will provide current knowledge on the role of endometrial steroid receptors adhesion factors cytokines interferons steroids prostaglandins growth factors and immune cells involved with regulation of conceptus development Reproductive Performance of Female Bos Indicus (zebu) Cattle E. Mukasa-Mugerwa, International Livestock Centre for Africa, 1989-01-01 Anatomy and endocrinology of cow reproduction Puberty oestrus and pregnancy Measures of reproductive performance Infertility in cows The role of nutrition in cattle reproduction Lactetional anoestrus and the effect of weaning Reproductive herd Health programmes <u>SFT Annual Conference and Symposium</u> Society for Theriogenology. Controlled Reproduction in Cattle and Buffaloes Ian Gordon, 1996 Introduction to controlled Conference, 2003 reproduction in cattle The cow's oestrous cicle and associated events Artificial control of oestrus and ovulation Pregnancy testing in cattle Control of calving Controlling the calving interval Embryo transfer and associated techniques in cattle Introduction of twin births in cattle Breeding cattle at younger ages Introduction to controlled reproduction in buffaloes Control of oestrous Pregnancy testing and parturition control in buffaloes Embryo transfer and associated techniques in

buffaloes Encyclopedia of Reproduction: M-Pri ,1998 The present work should serve as a convenient and comprensive source of information encompassing all aspects of the subject of reproduction as it relates to the entire animal kingdom Preface p xxxiii Annual Research Report of the Florida Agricultural Experiment Station, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, Florida University of Florida. Agricultural Experiment Station, 2001 Annual Research Report University of Florida. College of Engineering, 2002

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