Bull Semen Collection and Analysis for Artificial Insemination

Cryptosporidium in Esukwazi-Francisco Marco-Jiménez 2016-11-30 Since accidentally discovering the ability of glycoproteins on protecting cells from freezing damage, many researchers have been pursuing its potential to profoundly protect cemented tissues and somes, and those have found widespread applications in biology and medicine. From the point of view of living organisms, cryoprotectant is a useful tool for ex situ conservation of genetic resources together with its contribution on conservation of biodiversity. Cryptosporidium in Esukwazi includes two chapters, which have been written by the expert researchers in the field. The chapters are a comprehensive collection of the most frequently used methods for Esukwazi. Within this book, every researcher will better understand the principles, background, and current status of Cryptosporidium in particular organisms.

Veterinary Reproduction and Obstetrics-Geoffrey Herbert Arthur 177 The ovary and its cycles, The role of the hypothalamus, Ovarian cyclicity and its determinants, Reproduction in the ruminant and the cow, Pregnancy diagnosis in the sow, sow, and bitch, Anomalies of development of the conceptus, Prolapse of the vagina, Parturition, The care of parturient animals and the newborn:the periparturient, Dystocia:general considerations, Neonatal dystocia, Fetal dystocia and incidence, The approach to an obstetrical case, Manipulative delivery per vaginam-farm animals and the bitch, Dystocia due to foetal overdistension, Dystocia due to defects of position or presentation, Dystocia due to tears or tears, injuries involving the head and neck, Incomplete or incomplete parturition, The caesarean operation, Caesarean operations in the bitch and cat, Retention of the fetal membranes, Postpartum complications, Inflammation of the vulva, Infectious forms of inappetence in cattle, The veterinary control of herd infertility, Sheep infertility, Infertility in the mare, Swine infertility, Infertility in the bitch and cat, The normal sexual apparatus of male animals, Reproductive abnormalities of male animals, Artificial insemination.

WHO Laboratory Manual for the Examination of Human Semen and Sperm-Cervical Mucus Interaction: World Health Organization 1999-05-13 This definitive and essential source of information has been thoroughly updated and revised to meet the requirements of all laboratories involved in the analysis of human semen. The book outlines the fundamental laboratory techniques that should be employed in the diagnosis of male infertility. The text includes descriptions of how to construct a conventional semen profile and provides standardized protocols for performing several optimal diagnostic procedures. Such techniques are essential in the evaluation of infertility couples, as well as for assessing donors for spermatozoa, potential and fertility treatments. It also describes the use of compounds or by toxic agents: they are also of interest in forensic medicine and in connection with artificial insemination. Previous editions of this volume have established themselves as the gold standard in the area of fertility investigation and treatment. This new edition continues that tradition and will be the benchmark for setting more rigorous standards for future years.

New Strategies for Improving Animal Production for Human Welfare: 1983

Bovine Reproduction Richard M. Hopper 2014-08-18 Bovine Reproduction is a comprehensive, current referencing providing information on all aspects of reproduction in the bull and cow. Offering fundamental knowledge on evaluating and improving the bovine, this book also places information in the context of herd health where appropriate for global view of bovine reproduction. Printed in full color throughout, the book includes 33 chapters and more than 550 illustrations, making it the most exhaustive reference book on the subject. Bovine Reproduction provides the reader with an understanding of the principles of reproductive surgery, as well as anatomic and microphysiologic aspects of the bovine. Bovine Reproduction is a valuable resource for bovine reproductive endocrinologists, and animaliers, as well as veterinary students and residents with an interest in the cow.

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 fundamental infertility concepts and then the book also places information in the context of herd health where appropriate for a global view of bovine reproduction. Embryo transfer, in vitro embryo production technology and the control of estrus and ovulation are then reviewed. Subsequent chapters consider the control of postpartum ovulatory activity, seasonal breeding, multiple births and litter size, reproductive technologies 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.


Bovine Semen Collection and Processing Techniques-Peter Cross-Osoro 1979

Protocols in Semen Biology (Comparing Assays)-N. Srivastava 2017-09-19 This book on protocols in semen biology is a compilation of 25 chapters written by 15 experts from 5 Indian Council of Agricultural Research institutions, focusing on the basics of various procedures in semen biology with applications in animal and other allied sciences. The book is intended to be a comprehensive resource for fund managers and other researchers for evaluating a seminal parameter. The book provides a comprehensive resource for fund managers and other researchers for evaluating seminal parameters. The book provides a comprehensive resource for researchers and students of animal semen biology and relevant fields. Further, it offers valuable teaching material.

Effect of Collection Interval and Artificial Vagina Length and Temperature on the Bovine Ejaculate, Compartmental Analysis Using Bio-chemical Markers, and Motion Picture Analysis of Ejaculation...
effectively breed even problem mares and stallions.

The Ohio State University College of Veterinary Medicine Advances in Veterinary Medicine Ohio State University, College of Veterinary Medicine 2000

Current and Future Reproductive Technologies and World Food Production C. Cliff Lamb 2013-10-29 This book addresses the impacts of current and future reproductive technologies on our world food production and provides a significant contribution to the importance of research in the area of reproductive physiology that has never been compiled before. It would provide a unique opportunity to separate the impacts of how reproductive technologies have affected different species and their contributions to food production. Lastly, no publication has been compiled that demonstrates the relationship between developments in reproductive management tools and food production that may be used a reference for scientists in addressing future research areas. During the past 50 years assisted reproductive technologies have been developed and refined to increase the number and quality of offspring from genetically superior farm animals, livestock species. Artificial Insemination (AI), estrous synchronization and fixed-time AI, semen and embryo cryopreservation, multiple ovulation and embryo transfer (MOET), in vitro fertilization, sex determination of sperm or embryos, and nuclear transfer are technologies that are used to enhance the production efficiency of livestock species.

Goat Science Sándor Kalcovics 2018-06-20 Goat science covers quite a wide range and varieties of topics, from genetics and breeding, via nutrition, production systems, reproduction, milk and meat production, animal health and parasitism, etc., up to the effects of goat products on human health. In this book, several parts of them are presented within 18 different chapters. Molecular genetics and genetic improvement of goats are the new approaches of goat development. Several factors affect the passage rate of diploids in goats, but for diet properties, goats are similar to other ruminants. Inadequate deficiency in goats could be dangerous. Assisted reproduction techniques have similar importance in goats like in other ruminants. Milk and meat production traits of goats are almost equally important and have significant positive impacts on human health. Many factors affect the health of goats, heat stress being of increasing importance. Production systems could modify all of the abovementioned characteristics of goats.

Poultry Science Milad Manafi 2017-02-15 When it comes to life science and specially by considering animal-origin proteins, one of the main topics to gain importance with respect to human nutrition and health is poultry science. This book presents an introductory overview to the different fields/branches of poultry science with four main divisions: different feed resources for poultry, husbandry of salmonella and campylobacter in the poultry industry, prevention of different contaminants in modern poultry farms, and mycotoxins in poultry feed. This book will be beneficial for the graduate students, teachers, researchers, farmers, and other professionals, who are interested to fortify and expand their knowledge about chicken products in fields of poultry science, biotechnology, plant science, and agriculture.


Andrology Laboratory Manual - Kamini A Ras 2010-02-01

A Practical Guide to Basic Laboratory Andrology Lars Björndal 2010-04-01 This practical, extensively illustrated handbook covers the procedures that are undertaken in andrology and ART laboratories to analyse and assess male-factor infertility, and to prepare spermatozoa for use in assisted conception therapy. The content is presented as brief, authoritative overviews of the relevant biological background for each area, plus detailed, step-by-step descriptions of the relevant analytical procedures. Each technical section includes pertinent quality control considerations, as well as the optimum presentation of results. In addition to the comprehensive ‘basic’ semen analysis, incorporating careful analysis of sperm morphology, the handbook provides established techniques for the use of computer-aided sperm analysis and sperm functional assessment. Throughout the handbook the interpretation of laboratory results in the clinical context is highlighted, and safe laboratory practice is emphasized. It is an invaluable resource to all scientists and technicians who perform diagnostic testing for male-factor infertility.

Proceedings 1956

The Reproductive Process of South American Cameld - P. Walker Bravo 2002

Physiology of Reproduction and Artificial Insemination of Cattle Glenn Wade Salisbury 1978-01-01 The soil and the seed; Livestock improvement through reproduction and artificial insemination. The reproductive system of the cow; The estrous cycle; Ovogenesis, ovulation, and fertilization; Gestation; Parturition; The storage and the planting; The reproductive tract of the bull; Formation, migration, maturation, and ejaculation of spermatozoa; Semen and its components; Morphology and motility of spermatozoa; Metabolism of bull spermatozoa; Physiology of spermatozoa in the female reproductive tract; Semen collection; Semen evaluation; Significance of semen quality; Extenders and extension of unfrozen semen; Principles and techniques of freezing spermatozoa; Insemination of the cow; The cultivation and the harvest; Conception rate and factors affecting its magnitude; Inherited, environmental, and pathological causes of lowered reproductive efficiency; Physiological and psychological causes of lowered reproductive efficiency; Physiological and psychological causes of lowered reproductive efficiency; Management factors that affect the reproductive efficiency of the cow; Management factors that affect the reproductive efficiency of the bull.

MSU Veterinarian 1963

Filtration of Bovine Sperm with Sephadex Ion-exchange Filter - Muhammad Anzar 1990


Applied Veterinary Andrology and Frozen Semen Technology - M. K. Shukla 2011-01-15 Ample literature covering various aspects of Veterinary Andrology and frozen semen technology is available but need for a book incorporating practical aspects of the subject was always felt for the students of andrology and scientists working in the area. This book is aimed to fill this void in literature by providing insight into various applied aspects of veterinary andrology, frozen semen technology and artificial insemination with the help of relevant illustrations based on author's experience and research in the subject. Theoretical aspects of the subject have been deliberately omitted as ample literature on the topic has already been published. This book has been written to supplement the requirements of the scientists and Managers working in frozen semen production station, Semen Quality Control Laboratories, Andrological Diagnosis Laboratories and students of Andrology and Artificial Insemination. It incorporates the topics mentioned in syllabus for Practical course of Andrology and Artificial Insemination of undergraduate students of Veterinary Science. This will also be helpful to the graduate students of Animal Reproduction or Veterinary Andrology as a teaching aid.