

Safaa Al-Medhati

Quality assessment of semen from Norwegian Red Bulls

Stress testing used in vitro for the evaluation of sperm
quality of fresh and frozen bull semen

Master's Thesis

Quality Assessment Semen Norwegian Bulls

Safaa Al-Medhati



Quality Assessment Semen Norwegian Bulls:

Quality assessment of semen from Norwegian Red Bulls Safaa Al-Medhati, 2015-11-20 Master's Thesis from the year 2015 in the subject Biology Zoology language English abstract In the present study semen samples from NRF bulls were analysed for sperm viability acrosome integrity and ATP content The effect of incubation at 37 C on sperm viability acrosome integrity and ATP content was investigated on fresh and frozen semen samples from 20 NRF Semen was incubated at 37 C and the sperm quality parameters were analysed at 0 hr and after 6 and 24 hrs of incubation for both fresh and frozen samples Sperm viability and acrosome integrity was assessed with flow cytometry and ATP content with luminometer The incubation time at 37 C had a significant effect on all studied parameters However ATP content was significantly more affected than sperm viability and acrosome integrity After 24 hrs of incubation ATP content of frozen samples decreased approximately to 0 for all tested samples while percentage of viability and acrosome integrity decreased by 78 11 9 % Percentage of AIL sperm cells of frozen samples decreased at corresponding rate as in fresh samples Concerning ATP content there was however a more marked decline in frozen samples compared to fresh samples during incubation Sperm samples from eight NRF bulls with high and low fertility were also analysed for sperm viability acrosome integrity and ATP content at 0 hr right after thawing 3 6 and 24 hrs incubation at 37 C The ATP content adjusted for % AIL at 0 hr was significantly correlated with fertility measured as 56 days NRR while % AIL or ATP content analysed separately were not correlated to field fertility *Bovine Reproduction* Richard M. Hopper, 2021-04-30 Ein umfassendes Nachschlagewerk mit praktischen maßgeblichen Informationen zu allen Aspekten der Rindertheriogenologie Die neu bearbeitete zweite Ausgabe von *Bovine Reproduction* bietet einen ausführlichen Überblick über alle wichtigen Themen rund um die Rinderreproduktion Das Werk wurde von führenden Experten auf dem Gebiet verfasst und ist ein unverzichtbares Referenzwerk für alle Tierärzte die sich mit der Fruchtbarkeit von Rindern beschäftigen *Bovine Reproduction* ist in mehrere Abschnitte unterteilt über den Bullen die Kuh das neugeborene Kalb und Techniken der assistierten Reproduktion Die neue Ausgabe enthält Kapitel über neue Genmanipulationstechniken den Umgang mit problematischen Spendern Lähmung und viele weitere Themen Veraltete und überflüssige Angaben aus der ersten Ausgabe wurden entfernt und durch Informationen über neue Krankheiten Technologien Verfahren Techniken und Behandlungsmöglichkeiten von Fertilitätsproblemen ersetzt Auf der neuen begleitenden Website stehen Bilder und Tabellen aus dem Buch im PowerPoint Format zur Verfügung Neben den über 675 vollfarbigen Abbildungen bietet das Werk insbesondere eine ausführliche Diskussion der Anatomie und Physiologie des Bullen auch in Bezug auf die endokrine und exokrine Funktion der Rinderhoden und die Thermoregulation der Hoden Eine Betrachtung des Zucht und Gesundheitsmanagements bei Bullen mit einer Bewertung der Zuchttauglichkeit und einem Abschnitt über Ultraschalluntersuchungen des Fortpflanzungstrakts Eine Analyse der Anatomie Physiologie sowie des Zucht und Gesundheitsmanagements bei Kühen auch in Bezug auf funktionale Programmierung des Mikrobiom des Fortpflanzungstrakts und

mit einem Abschnitt über Geburtshilfe und Reproduktionschirurgie. Einen Überblick über die Intensivpflege des neugeborenen Kalbes und die wirksame Untersuchung und Gabe von Kolostrum. Eine Einführung in assistierte moderne Reproduktionstechnologien. Das praktische umfassende Nachschlagewerk ist ein unverzichtbarer Ratgeber für Rinderzüchter, Theriogenologen, Tierzuchtwissenschaftler, Studierende der Veterinärmedizin und angehende Ärzte mit einer Spezialisierung auf Rinder.

Epigenetic Variation Influences on Livestock Production and Disease Traits Eveline M. Ibeagha-Awemu, Hélène Kiefer, Stephanie McKay, George E. Liu, 2022-07-07

Management of Bulls, An Issue of Veterinary Clinics of North America: Food Animal Practice, E-Book Lee Jones, Joseph C. Dalton, 2024-01-29

In this issue of Veterinary Clinics of North America Food Animal Practice, guest editors Drs Lee Jones and Joseph C Dalton bring their considerable expertise to the topic of Management of Bulls. Top experts in the field offer current discussions of assessing the reproductive potential of bulls, diagnosing disease or causes of infertility and determining appropriate course of treatment or prognosis for recovery of injured bulls. This issue also provides up to date information regarding the contribution of sires to success or failure of reproductive programs in beef and dairy herds and foundational material for success with AI, semen storage, handling and site of deposition. Contains 13 relevant practice oriented topics including semen quality and field fertility, beef and dairy physical evaluation of the breeding bull, nutrition and development, medical and surgical management of conditions of the penis and prepuce, management of lameness in breeding bulls, genomics and bull fertility and more. Provides in depth clinical reviews on management of bulls offering actionable insights for clinical practice. Presents the latest information on this timely focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews.

Animal Andrology Peter J Chenoweth, Steven Lorton, 2014-04-30

Understanding animal andrology is fundamental to optimising genetic breeding traits in domestic and wild animals. This book provides extensive coverage of male reproductive biology, discussing the essentials of sperm production, harvest and preservation, before covering the applications to a range of animals including cattle, horses, pigs, small ruminants, camelids, cats and dogs, poultry and exotic species. It also examines the laboratory procedures that provide the basis of general fertility research.

Molecular Biomarkers in Animal Reproduction Jordi Roca, Isabel Barranco, Cristina Alicia Martinez, 2022-01-19

Oxidative Stress and Toxicity in Reproductive Biology and Medicine Kavindra Kumar Kesari, Shubhadeep Roychoudhury, 2022-05-31

This book discusses the role of oxidative stress in human reproduction with a focus on men's health. The physiological roles of reactive oxygen species (ROS) in male fertility are the focus in this book. This topic is important because oxidative stress is a result of the imbalance between ROS and antioxidants in the body, which may lead to sperm damage, DNA or count deformity and eventually male infertility. Therefore, for a better understanding of the molecular mechanisms related to male genotoxicity and its regulation in infertility, this book provides an up to date view on the impact of oxidative stress factors in male reproduction. The main aim of this book is to collect a series

of research articles and reviews from a diverse group of scientists to share their research work on the role of ROS or oxidative stress in physiological and pathological states in relation to fertility in the male. This book presents various state of the art chapters of the recent progress in the field of cellular toxicology and clinical manifestations of various issues related to men's health and fertility. Topics include cell signaling, DNA damage and infertility, the pathophysiology of disease instigation and distribution, immune toxicity and prevention. **Artificial Insemination** Deborah Y. Richardson, 1992

Frontier Technologies in Bovine Reproduction A. Kumaresan, A. K. Srivastava, 2022-07-22. This book details the frontier technologies in the area of bovine reproduction. It describes the importance and significance of different technologies for improving reproduction efficiency in bovines. The book delineates the advancements in the technologies that are currently in use for faster multiplication of elite germ plasma including multiple ovulation and embryo transfer, ovum pick up, in vitro fertilization and embryo production and semen sexing. Other emerging technologies having potential for improving reproductive efficiency in bovines including stem cells are also discussed with special reference to spermatogonial stem cells. Simple but effective tools having a great scope for day to day application in bovine farms for effective reproductive management like ultrasonography and thermal imaging are also covered in this book. The chapters on sperm transcriptomics, proteomics, metabolomics provide current developments in these areas and use of integrated approach for identification of fertility biomarkers. The chapters also describe technological advancements for early pregnancy diagnosis and offspring sex pre selection in bovines. Additionally, this book discusses different sperm selection procedures including application of nanotechnology to obtain superior spermatozoa for assisted reproduction. Futuristic technologies including genomic selection and transgenesis are also discussed in detail. Finally, the book also elucidates a comprehensive description of challenges perceived with bovine reproduction and how effectively these technologies can help in improving fertility in bovines.

Quality Assessment of Semen from Norwegian Red Bulls Safaa Al-Medhati, 2015-11-30. Master's Thesis from the year 2015 in the subject Biology Zoology, language English, abstract. In the present study, semen samples from NRF bulls were analysed for sperm viability, acrosome integrity and ATP content. The effect of incubation at 37 °C on sperm viability, acrosome integrity and ATP content was investigated on fresh and frozen semen samples from 20 NRF. Semen was incubated at 37 °C and the sperm quality parameters were analysed at 0 hr and after 6 and 24 hrs of incubation for both fresh and frozen samples. Sperm viability and acrosome integrity was assessed with flow cytometry and ATP content with luminometer. The incubation time at 37 °C had a significant effect on all studied parameters. However, ATP content was significantly more affected than sperm viability and acrosome integrity. After 24 hrs of incubation, ATP content of frozen samples decreased approximately to 0 for all tested samples while percentage of viability and acrosome integrity decreased by 78.11 ± 9 %. Percentage of ALL sperm cells of frozen samples decreased at corresponding rate as in fresh samples. Concerning ATP content, there was however a more marked decline in frozen samples compared to fresh samples during incubation. Sperm

samples from eight NRF bulls with high and low fertility were also analysed for sperm viability acrosome integrity and ATP content at 0 hr right after thawing 3 6 and 24 hrs incubation at 37 C The ATP content adjusted for % AIL at 0 hr was significantly correlated with fertility measured as 56 days NRR while % AIL or ATP content analysed separately were not correlated to field fertility

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