

Ruminant Excretory System

Physiology of Digestion in the Ruminant; .1965

Neurobiology of Chemical Communication Carla Mucignat-Caretta.2014-02-14 Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism—ranging from behavioral modification to modulation of hormones release. Animals emit intraspecific chemical signals, often referred to as pheromones, to advertise their presence to members of the same species and to regulate interactions aimed at establishing and regulating social and reproductive bonds. In the last two decades, scientists have developed a greater understanding of the neural processing of these chemical signals. Neurobiology of Chemical Communication explores the role of the chemical senses in mediating intraspecific communication. Providing an up-to-date outline of the most recent advances in the field, it presents data from laboratory and wild species, ranging from invertebrates to vertebrates, from insects to humans. The book examines the structure, anatomy, electrophysiology, and molecular biology of pheromones. It discusses how chemical signals work on different mammalian and non-mammalian species and includes chapters on insects, Drosophila, honey bees, amphibians, mice, tigers, and cattle. It also explores the controversial topic of human pheromones. An essential reference for students and researchers in the field of pheromones, this is also an ideal resource for those working on behavioral phenotyping of animal models and persons interested in the biology/ecology of wild and domestic species.

Concepts of Biology Samantha Fowler,Rebecca Roush,James Wise.2018-01-07 Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Bulletin Florida. State Dept. of Education.1964

Husbandry of Farm Animals and Poultry in the Tropics .

Mosby's Comprehensive Review for Veterinary Technicians - E-Book Monica M. Tighe,Marg Brown.2007-10-17 Mosby's Comprehensive Review for Veterinary Technicians, 3rd edition introduces and reviews the material in each of your veterinary technology courses. Key topics ranging from basic and clinical science, diagnostics and applications, to professional practices and issues are presented in a user-friendly outline format that is ideal whether you're a new student or you're reviewing for your certification exams. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included. Comprehensive coverage of veterinary technology spans basic and clinical sciences, applications, patient management, nursing, nutrition, anesthesia and pharmacology, as well as personal, practice and professional management skills - everything you need for both the U.S. and Canadian certification exams. Care of large animals, birds, reptiles and laboratory animals, in addition to cats and dogs, is included. Chapter outlines, learning outcomes and expanded glossaries help you comprehend and retain essential material. Summary tables are ideal for reference or review. Review questions at the end of each chapter, in addition to a 300-question comprehensive review exam, test and reinforce your knowledge of veterinary technology. Six appendixes ensure crucial resources are always at your fingertips. State-of-the-art Alternative Imaging Technology chapter discusses computed tomography and nuclear scintigraphy to complement ultrasound technology. Enhanced content highlights vet tech responsibilities in genetics, small animal nursing, veterinary dentistry, zoonoses, breeding/reproduction, neonatal care, and much more. Small animal nursing instruction now includes dermatology, auricular treatments and ophthalmology. Extended pharmacology coverage features pain management. Personal and practice management skills include expanded OSHA/WHMIS guidelines and ethics discussions.

Ruminant Physiology Y. Chilliard.2009 This book contains the proceedings of the XIth International Symposium on Ruminant Physiology. The papers address ruminant comparative physiology, the rumen ecosystem and metagenomics, nutrient digestion and absorption, methanogenesis, tissue metabolism and gene expression, pregnancy, lactation and growth, adaptation to heat-stress, nitrogen use, nutrition and reproduction, nutrition and welfare and nutrition for sustainable ruminant production.These topics are in line with the current challenges for animal breeding: production efficiency, meat and milk quality, environment (greenhouse gases, nitrogen use), animal welfare and health.The contributions come from research teams in 49 countries of all continents, showing a world-wide interest in ruminant nutrition and physiology. They show the latest techniques and results on ruminant nutrition physiology, including fundamental and integrative approaches, presented in the book on the following sections: (1) Digestion and absorption; (2) Metabolism and hormonal regulations; (3) Nutrition and reproduction; (4) Nutrition and welfare.Proceedings from past ISRP symposia have had a major influence on research and teaching in animal science over the years. Without a doubt, this book, which is of interest to all professionals and researchers who are concerned with ruminant nutrition and physiology, will contribute to this fine tradition.

Digestion and Metabolism in the Ruminant Ian Wilbur McDonald,A. C. I. Warner.1975

Ruminant Physiology Pierre Cronjé.2000 The International Symposium on Ruminant Physiology (ISRP) is the premier forum for presentation and discussion of advances in knowledge of the physiology of ruminant animals. This book brings together edited versions of the keynote review papers presented at the symposium.

Feeding crops and live stock experiments in South Africa E. R. Sawyer.1911

Comparative Physiology of the Vertebrate Digestive System C. Edward Stevens,Ian D. Hume.2004-11-25 This book discusses the structural and functional characteristics of the digestive system and how these vary among vertebrates.

Quantitative Aspects of Ruminant Digestion and Metabolism J. M. Forbes.1993 Digestion; Metabolism; The whole animal.

Ruminant Physiology Julio Mendes.2016-09-15 Ruminating animals have various physiological features that enable them to survive in nature. One feature of ruminants is their continuously growing teeth. During grazing, the silica content in forage causes abrasion of the teeth. This abrasion is compensated for by continuous tooth growth throughout the ruminant's life, as opposed to humans or other non-ruminants, whose teeth stop growing after a particular age. Most ruminants do not have upper incisors; instead, they have a thick dental pad to thoroughly chew plant-based food. Ruminants are mammals that digest plant based food by processing it in a series of chambers in their stomachs. There are about 150 species of ruminants, including both domestic and wild species. Ruminating mammals include cattle, goats, sheep, giraffes, bison, moose, elk,

yaks, water buffalo, deer, camels, alpacas, llamas, and antelope. Ruminants are distinguished from other animals by having a four-compartment stomach. The four compartments are called the rumen, the reticulum, the omasum, and the abomasum. The rumen and the reticulum are connected and work in concert and are therefore sometimes called the reticulorumen. Ruminant Physiology: Digestion, Metabolism is a valuable tool of information for researchers, nutritionists, advisors, and advanced graduate students who want to have up-to-date and concise information on ruminant digestive system.

The Mineral Nutrition of Livestock Eric John Underwood, N. F. Suttle. 2001 This book is an up to date reference work covering all aspects of macro and trace element nutrition in farm livestock. Sufficient information is given on metabolism, functions and interactions to explain why needs, feeds and imbalances are not always easy to define or anticipate. The major emphasis is on the mineral nutrition of ruminant livestock since they are most likely to be affected by imbalances but where pigs and poultry are the more vulnerable, extensive coverage of the non-ruminant is given. This new edition of a highly successful text has been thoroughly revised and significantly expanded. Many chapters have been extensively updated and several chapters on new topics introduced. * Calcium, phosphorus, sodium and potassium are now treated separately * Over 40 new figures are presented, and extensive use made of tables to summarise important data * Chapters on trace elements have been drastically revised * Claims for enhanced availability for new chelated sources are critically reviewed * Completely new chapters focus on: The unique need of the ruminant for elemental sulphur Occasionally beneficial elements and essentially toxic elements The improved conduct and interpretation of supplementation trials

Kangaroos Terence J Dawson. 2012-04-16 This book provides a clear and accessible account of kangaroos, showing how their reproductive patterns, social structure and other aspects of their biology make them well adapted to Australia's harsh climate and demanding environment. Since the last edition of this book nearly 20 years ago, much more is now known about the biology and ecology of these iconic animals. This completely revised edition describes these new perspectives and attempts to counter the many urban and rural myths that still exist.

Anatomy and Physiology Amy-Jane Beer. 2010 This reference volume takes a look at nine biological systems and their foundations in cell biology and genetics.

The Ruminant Animal D. C. Church. 1993-07-09 Excellent for its quality and in-depth coverage! This volume represents a compilation of important information on major topics related to nutrient requirements and nutrient metabolism among ruminants. This outstanding collection facilitates the dissemination of this ever-growing body of knowledge and is a valuable tool for achieving a more complete understanding of the subject. An abundance of photographs, diagrams, and tables illustrate and reinforce the text, serving to enhance student comprehension.

Digestive Physiology and Metabolism in Ruminants Y. Ruckebusch, P. Thivend. 2012-12-06 Two questions could not be avoided in the avant-propos of this book; (i) what is the importance to man of ruminant livestock, and (ii) what results of practical relevance in the growing mountain of scientific verbiage could be found in the Proceedings of this Symposium. Herbivores are an integral and critical part of the natural ecosystem which must be preserved because of their impact on human welfare. What makes ruminants especially important to man is that they can thrive on fibrous forage and are thus the only viable enterprise over much of the earth's surface where crop growing is impracticable. They contribute a wide array of products in addition to 50000 000 tonnes of meat (1977) and represent a 'capital reserve' that can be drawn upon in times of emergency: milk for example (450000000 tonnes) can make the difference between subsistence and starvation. About 60% of the world's meat and 80 % of the milk are produced by one third of the world ruminant population in the developed regions and as much as 99 % of the power for agriculture is provided by the ruminant population in developing countries. For the next two decades, a probable increase by 30 % for cattle and buffalo and more than 40 % for sheep and goats is expected by improving health, fertility, nutrition and genetic potential rather than feed resources.

Nutritional Ecology of the Ruminant Peter J. Van Soest. 2018-09-05 This monumental text-reference places in clear perspective the importance of nutritional assessments to the ecology and biology of ruminants and other nonruminant herbivorous mammals. Now extensively revised and significantly expanded, it reflects the changes and growth in ruminant nutrition and related ecology since 1982. Among the subjects Peter J. Van Soest covers are nutritional constraints, mineral nutrition, rumen fermentation, microbial ecology, utilization of fibrous carbohydrates, application of ruminant precepts to fermentive digestion in nonruminants, as well as taxonomy, evolution, nonruminant competitors, gastrointestinal anatomies, feeding behavior, and problems of animal size. He also discusses methods of evaluation, nutritive value, physical structure and chemical composition of feeds, forages, and broses, the effects of lignification, and ecology of plant self-protection, in addition to metabolism of energy, protein, lipids, control of feed intake, mathematical models of animal function, digestive flow, and net energy. Van Soest has introduced a number of changes in this edition, including new illustrations and tables. He places nutritional studies in historical context to show not only the effectiveness of nutritional approaches but also why nutrition is of fundamental importance to issues of world conservation. He has extended precepts of ruminant nutritional ecology to such distant adaptations as the giant panda and streamlined conceptual issues in a clearer logical progression, with emphasis on mechanistic causal interrelationships. Peter J. Van Soest is Professor of Animal Nutrition in the Department of Animal Science and the Division of Nutritional Sciences at the New York State College of Agriculture and Life Sciences, Cornell University.

Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography Luc DesCôteaux, Jill Colloton, Giovanni Gnemmi. 2009-09-24 Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a practical, fully referenced, image-based guide to the essential concepts of reproductive ultrasound in domesticated ruminants and camelids. Providing information to enable practitioners to incorporate ultrasound service into their practices, the book also includes more specialized information for advanced techniques such as fetal sexing, embryo transfer, color Doppler, and others. Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a must-have reference for ruminant and camelid practitioners, instructors, and students.

Effect of Environment on Nutrient Requirements of Domestic Animals National Research Council, Board on Agriculture, Subcommittee on Environmental Stress. 1981-02-01

Comparative Diagnostic Pharmacology C.P. Coyne. 2008-01-09 Comparative Diagnostic Pharmacology: Clinical and Research Applications in Living-System Models is the first evidence-based reference text devoted exclusively to the subject of applying pharmaceutical and biopharmaceutical agents as diagnostic probes in clinical medicine and investigative research. This unique and groundbreaking book is a versatile guide for clinicians and researchers interested in using pharmacologic agents to: Diagnose disease Assess physiological processes Identify the appropriateness of a therapeutic agent Determine appropriate dosing for therapeutic use. Extensively referenced and organized by major body systems, individual topics are listed in an evidence-based format according to specific disease processes or physiological processes of interest. Each entry also includes information on the mechanism of action, administration, and diagnostic interpretation. Descriptions have been provided for the application of diagnostic pharmaceuticals to assess a wide spectrum of diseases and physiological processes relevant to the fields of veterinary and human medicine. Comparative Diagnostic Pharmacology is useful not merely for pharmaceutical-oriented research investigations, but it will also prove invaluable for the monitoring and evaluation of physiological responses and disease processes in animal models.

Physiology of Digestion in the Ruminant .1965

Ruminant Physiology Wolfgang v Engelhardt. 1995

The Goat Sue Weaver. 2021-03-16 The Goat: A Natural History offers a complete overview of this captivating creature, from the goatish Greek god Pan, to their cognitive capacity and typical milk yields. It is no secret that goats are highly intelligent. They are also curious, gentle, independent, very social, and full of character. They hate to get wet and will avoid puddles. Among the first domesticated animals, goats are a common character in western mythology. In ancient Greece, Crete, and Egypt, goats even received divine honours. Goats are increasingly appreciated for their high adaptability to a wide variety of environmental conditions, and will thrive in the warmer, dryer world of the future. This book reveals everything you need to know about the natural history of a fascinating animal.

CRC Handbook of the Zoology of Amphistomes Otto Sey.2019-01-15 Handbook of the Zoology of Amphistomes provides a comprehensive survey on the morphology, ecology, systematics, and zoogeography of amphistomes, which are a group of digenetic trematodes parasitic in vertebrates. The handbook features the special morphological characteristics of amphistomes, including the structure and types of muscular organs; a short diagnosis for each species (when possible), as well as a line drawing of each adult fluke; a zoogeographical analysis, including the host-parasite coevolution, distributional patterns, and characterization of faunas within the zoogeographical realm; and a possible evolutionary scenario based on holomorphological characteristics. Parasitologists, helminthologists, zoologists, and biologists working with ecological associations will find this book an essential reference source for their work with amphistomes.

Quantitative Aspects of Ruminant Digestion and Metabolism John Michael Forbes,James France.1993-01-01 Ruminant animals have evolved a set of stomachs harboring microorganisms which are capable of digesting fibrous materials, such as cellulose in plants. They account for almost all of the milk and more than half of the meat consumed worldwide. Therefore a great deal of research has been conducted on the digestive system of ruminants, and on the metabolism of products of digestion. As qualitative knowledge increased, it became possible to develop quantitative approaches, initially using complex statistical analyses but more recently by constructing mechanistic mathematical models. This book brings together quantitative approaches used in the study of mechanisms of ruminant digestion and metabolism. Written by leading authorities from the UK, United States, Canada and Australia, it is aimed at research workers and advanced students in animal sciences.

Mitigation of Greenhouse Gas Emissions in Livestock Production Pierre J. Gerber,Benjamin Henderson,Harinder P. S. Makkar.2013 The current analysis was conducted to evaluate the potential of nutritional, manure and animal husbandry practices for mitigating methane (CH₄) and nitrous oxide (N₂O) - i.e. non-carbon dioxide (CO₂) - GHG emissions from livestock production. These practices were categorized into enteric CH₄, manure management and animal husbandry mitigation practices. Emphasis was placed on enteric CH₄ mitigation practices for ruminant animals (only in vivo studies were considered) and manure mitigation practices for both ruminant and monogastric species. Over 900 references were reviewed; simulation and life cycle assessment analyses were generally excluded

Physiology of Digestion in the Ruminant Robert Watson Dougherty.1965

Mammal Anatomy Marshall Cavendish Corporation.2010 Provides details on the anatomy of fourteen mammals, including dolphins, chimpanzees, squirrels, and humans, and describes the musculoskeletal, circulatory, nervous, digestive, and reproductive systems of each animal.

Sheep, Goat, and Cervid Medicine - E-Book David G. Pugh,N. (Nickie) Baird,Misty Edmondson,Thomas Passler.2020-01-07 NEW! Coverage of cervids has been added to chapters throughout the book, reflecting the growing popularity of deer and elk. NEW! Thorough content updates are made throughout the book and reflect the latest research evidence. NEW! 170 new clinical photos have been added. NEW! Anesthesia and Pain Management chapter includes a new section on pain management strategies, reflecting the emphasis on controlling pain in small ruminants. NEW! Expert Consult website offers an online version of the book, making it easy to search the entire book electronically. NEW! Two new authors are respected and well-known veterinary medicine experts and educators: Dr. Misty Edmondson and Dr. Thomas Passler.

Ruminants Muhammad Abubakar.2018-04-25 It is very essential to understand the recent advances in ruminant science to recognize and control diseases and disorders in these animals. Our book, Ruminants - The Husbandry, Economic and Health Aspects, provides a concise introductory chapter and details about the main aspects of ruminants' science and production. This is the first edition of the book, so it covers the introductory level of topics, which are written specifically for veterinary students, classroom use, and practitioners who require more knowledge of dairy animal health and production. The book covers an introductory chapter and sections on husbandry and economics as well as animal health. Each book section comprises chapters from renowned experts from the area and gives readers a unique opportunity to explore the topic.

Structure and Function of Domestic Animals W. Bruce Currie.2017-12-06 Structure and Function of Domestic Animals provides a solid introduction to the functional anatomy of domestic animals. The author covers general principles, phenomena, and mechanisms and then supports this information by providing concrete examples, giving you a working understanding of the biology of animals. Line drawings, tables, and text boxes provide supplemental information. The author examines the functions of animals from the basic to the complex. The pragmatic application of these principles allows for the raising and caring for animals with the appropriate regard for their welfare. He covers morphology, myology, electrophysiology, endocrinology, comparative anatomy, metabolism, cell growth and development, and reproductive mechanisms. The mechanism and phenomena described in this book will introduce you to the flexibility or plasticity of normal animal function. The author's pedagogical writing style clearly delineates normal function and abnormal function.

Structure and Function of Domestic Animals explores many of the seemingly endless examples of the ways in which animals apply the fundamental principles of chemistry and physics to preserve their integrity. It gives you an insightful overview to a very broad subject.

Cumulated Index Medicus .1974

Cedara Memoirs on South African Agriculture E. R. Sawyer.1911

Textbook of Veterinary Physiology Pradip Kumar Das,Veerasamy Sejian,Joydip Mukherjee,Dipak Banerjee.2023-10-05 This textbook explores the fundamental qualitative and quantitative aspects of veterinary physiology. It presents the morphological description of the organs, tissues, and cells involved in the physiological system with species variation. The book provide the most up-to-date information and in depth knowledge in animal physiology. The book addresses a broad range of topics, including the physiology of digestion in, monogastric animals, ruminants, and birds, and cardio vascular and respiratory system in different animals. The chapters contain a wealth of information on the areas related to the endocrine system, excretory system, body fluid homeostasis, hematology, male and female reproductive systems, coordination of body functions, and regulation of brain functions and sense organs. Further, this book acquaints students with advanced topics like immune system, assisted reproductive technology, ovarian dynamics, environmental physiology and thermoregulation, and behavioral physiology. This textbook contains clear illustrations including graphical abstracts and study questions for each chaptermaking this book a valuable learning resource for veterinary sciences and veterinary medicine students.Further to attract students and create interest in them, interesting facts related to animal physiology have also been highlighted in form of "Know more widges".

The Physiology of Ruminant Digestion John Hammond.1928

The Digestive System in Mammals David Ed. Chivers.1994-07-21 Biochemical, physiological and morphological aspects of mammalian digestive systems.

Physiological Aspects of Digestion and Metabolism in Ruminants T. Tsuda,Y. Sasaki,R. Kawashima.2012-12-02 This volume is comprised of invited papers presented at the Seventh International Symposium on Ruminant Physiology, held in Sendai, Japan, in September 1989. Papers are invited on the recommendations of 300 international experts. The proceedings of this symposia provides the most comprehensive coverage available of current research in ruminant physiology.

Comprehensive Dissertation Index .1973

Decoding **Ruminant Excretory System**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ruminant Excretory System**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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