

# RUMINANT ANIMALS VERSUS NON RUMINANT ANIMALS

## RUMINANT ANIMALS

Animals that chew and regurgitate their food more than once, and digest it multiple times in different stomachs

Herbivores

Have a complex stomach with four compartments

Long

Do not produce enzymes for protein digestion

Have two blunt canines

Premolars and molars move in the lateral direction

Produce more saliva with no carbohydrate digestive enzymes

Undergo regurgitation

Liver is large

Take a longer time to digest plant material

Digest all plant carbohydrates including cellulose

Ex: cattle, sheep, goats, buffalo, deer, etc.

## NON RUMINANT ANIMALS

Animals that digest food in one stomach

Omnivores or carnivores

Have a simple stomach with a single compartment

Short

Produce enzymes for protein digestion

Have four sharp canines

Premolars and molars move in the vertical direction

Produce less saliva with carbohydrate digestive enzymes

Do not undergo regurgitation

Liver is smaller

Take comparatively less time for their digestion

Do not digest cellulose

Ex: human, rabbit, dog, swine, etc.

# Difference Between Ruminant And Non Ruminant Animals

**Lingjun Ying**



## **Difference Between Ruminant And Non Ruminant Animals:**

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 Wh at 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 impracti cable They contribute a wide array of products in addition to 50000 000 tonnes ofmeat 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 **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 Animals, Feed, Food And People R. L. Baldwin, 2019-03-13 Numerous authors have presented analyses of the world food problem and the appropriate role of animals in food production and have drawn qualitative conclusions However projection and planning require quantitative considerations and this volume addresses that challenge Experts in animal science farm management economics international agriculture and nutrition elucidate and debate germane issues with scientific rigor They examine the efficiency and economics of animal production feed resource availability interactions between plant and animal agricultures international trade resource allocation roles of animals in developing countries and the nutritional values and limitations of animal products Textbook on Introductory Physiology of Domestic Animals Drs. Sweety, Neha, Anuj Singh, Parth Gaur, 2023-12-29 PREFACE Physiology is the study of the normal functions of the body the study of the body s molecules cells and organ systems and the interrelationships among them Because the study of medicine is the study of the abnormal functions of the body it is essential to understand normal physiology if one is to understand the mechanisms of disease For this reason physiology and other important sciences basic to medicine are introduced first in the veterinary curriculum Physiology is a vast subject and veterinary students are too busy to learn all that is known about it Therefore an effort was made to limit the concepts presented in this book to those germane to the practice of veterinary

medicine This book is designed for first year VLDD students The goal is to introduce the student to the principles and concepts of physiology that are pertinent to the practice of veterinary medicine This book is divided in 10 chapters and designed to be as student friendly as possible Furthermore this book would not exist without the invaluable expertise of the section authors editors who worked so hard to make this the textbook possible Chemistry of the Farm and Home William Edward Tottingham, Joseph Waite Ince, 1916 Production diseases in farm animals Nanda Joshi, Thomas H. Herdt, 2023-08-28 High producing farm animals are permanently challenged by a variety of factors lack of proper nutrition deficit surplus housing systems infections and stress The incidence course and outcome of production diseases are changing continuously Therefore new information on prevention diagnosis and treatment of production diseases is needed These problems are complicated by the discussion of animal welfare the rapid changes in agricultural production and the economics of production The following key topics are handled Fatty liver in dairy cows Alternatives to growth promoting antibiotics Chronic inflammation and animal production Animal behavior and welfare in intensive production systems Epidemiology of production diseases New techniques in immunoprophylaxis Nutrition immunology and production immunology relationships Phosphorus nutrition animal health and environmental concerns Application of genomics to production disease Role of specific fatty acids in animal health reproduction and performance Trace mineral nutrition and metabolism Subclinical rumen acidosis This book is essential to scientists veterinarians and others interested in animal production **Comparative Nutrition** Sir Kenneth Lyon Blaxter, Ian Macdonald, 1988 The proceedings of the 9th International Symposium sponsored by the Nutrition Committee are detailed here The theme of the book is comparative nutrition in man and animals covering aspects of digestion metabolism and the nutritional aspects of disease **The American Journal of Anatomy**, 1908 Volumes 1 5 include Proceedings of the Association of American anatomists later American Association of Anatomists 15th 20th session Dec 1901 Jan 1902 Dec 1905 **Handbook of feed additives 2002** David R. Williams, 2001 *The Physiology of the Domestic Animals* Robert Meade Smith, 1889 **Quarterly Compendium of Medical Science**, 1886 **Medical Record** George F. Shrady, Thomas Lathrop Stedman, 1886 **Medical record**, 1886 *Medical Record* George Frederick Shrady, Thomas Lathrop Stedman, 1881 Physiology of Digestion and Metabolism in the Ruminant Andrew Tindall Phillipson, 1970 GLOBEFISH EUROFISH international organisation SIPPO Swiss Import Promotion Programme cover **Medical and Surgical Reporter**, 1886 **Husbandry of Farm Animals and Poultry in the Tropics**, **The Popular Science Monthly**, 1897 Urea and the Kidney Bodil Schmidt-Nielsen, 1970 Boston Journal of Chemistry and Popular Science Review, 1899

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