

COMPARATIVE ANATOMY OF THE STOMACH IN MAMMALIAN HERBIVORES

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INTRODUCTION

The aims of this paper are to review data on the comparative anatomy of the stomach in mammalian herbivores and to refer to some structural adaptations that can be identified as serving specialized functions. Reference will be made to the three main digestive functions of the stomach: secretion, absorption and motility, but most attention will be paid to the adaptations of the stomach that serve to ensure the storage of the digesta for microbial degradation, the delay in transit of digesta and the physical separation of constituents of digesta.

COMPARATIVE ANATOMY OF THE STOMACH IN RELATION TO GASTRIC FUNCTION

Secretion

The gastric secretion of proteolytic enzymes, hydrochloric acid and mucus has been associated with characteristic types of cells and glands in the gastric mucosa; these cells and endocrine cells present in the glandular gastric mucosa are not distributed uniformly throughout the stomach. Thus, in the glandular unilocular stomach (terminology, Langer, 1984) such as that of man, three main areas of the mucosa are identified: cardiac, oxyntic or fundic and pyloric (Ito, 1968). The exocrine secretions of the cardiac and pyloric glands are alkaline with a high mucus content, those of the oxyntic area may contain acid, enzyme and mucin. The areas differ in extent in the unilocular stomach, with the cardiac gland area being relatively narrow in the stomachs of cat, dog and human. In animals in which a multilocular stomach has developed, these glandular areas are commonly situated most caudally in the stomach lying between sometimes capacious non-glandular gastric compartments and the duodenum. In Sirenia, however, oxyntic cells are concentrated in a pouch or diverticulum set off from the main gastric lumen (Marsh, Spain & Heinsohn, 1978; Reynolds, 1980). The stomach of the pig presents, in some respects, a form intermediate between the uni- and multi-locular types of stomach because it has a small gastric diverticulum and stratified epithelium at the cardia; there is an extensive cardiac zone with glandular epithelium extending into the diverticulum (Sloss, 1954) and discrete oxyntic and pyloric gland areas. Radiological studies show that the diverticulum always contains gas and occasionally ingesta and is motile (Wood & Kidder, 1982). The status of the diverticulum and its functions are not clear.

Gastric development and microbial fermentation

Microbial degradation of the structural carbohydrates in plants is vital to digestion in mammals. It can be argued that the development of this type of digestion has been of great evolutionary advantage, enabling some mammalian herbivores to occupy nutritional niches free, in many instances, of competitors (Kinnear & Main, 1979).

Mammalian Herbivore Stomach Comparative Anatomy Function And Evolution

Kenneth Kardong



Mammalian Herbivore Stomach Comparative Anatomy Function And Evolution:

The Mammalian Herbivore Stomach Peter Langer, Justus Liebig-Universität Giessen. Institut für Anatomie & Zytobiologie, 1985 Comparative Anatomy of the Gastrointestinal Tract in Eutheria II Peter Langer, 2017-10-23 This volume of the series Handbook of Zoology deals with the anatomy of the gastrointestinal digestive tract stomach small intestine caecum and colon in all eutherian orders and suborders It presents compilations of anatomical studies as well as an extensive list of references which makes widely dispersed literature accessible Introductory sections to orders and suborders give notice to biology taxonomy biogeography and food of the respective taxon It is a characteristic of this book that different sections of the post oesophageal tract are discussed separately from each other Informations on form and function of organs of digestion in eutherians are discussed under comparative anatomical aspects The variability and diversity of anatomical structures represents the basis of functional differentiations **The Digestive System in Mammals** D. J. Chivers, P. Langer, 1994-07-21 Biochemical physiological and morphological aspects of mammalian digestive systems **The**

Mammalian Herbivore Stomach Peter Langer (anatom.), 1985 The Mammalian Herbivore Stomach Peter Langer, 1988

Animal Nutrition Science Gordon McL. Dryden, 2008 Animal Nutrition Science introduces the fundamental topics of animal nutrition in a treatment which deals with terrestrial animals in general The subjects covered include nutritional ecology and the evolution of feeding styles nutrients including minerals vitamins and water and their functions food composition and methods of evaluating foods mammalian and microbial digestion and the supply of nutrients control and prediction of food intake quantitative nutrition and ration formulation methods of investigating nutritional problems nutritional genomics nutrition and the environment and methods of feed processing and animal responses to processed foods Publisher s description Resource Ecology Herbert H.T. Prins, Frank van Langevelde, 2008-01-21 This multi author book deals with resource ecology which is the ecology of trophic interactions between consumers and their resources All the chapters were subjected to intense group discussions comments and critiques were subsequently used for writing new versions which were peer reviewed Each chapter is followed by a comment This makes the book ideal for teaching and course work because it highlights the fact that ecology is a living and active research field **(Endo)symbiotic**

Methanogenic Archaea Johannes H.P. Hackstein, 2010-09-08 This updated monograph deals with methanogenic endosymbionts of anaerobic protists in particular ciliates and termite flagellates and with methanogens in the gastrointestinal tracts of vertebrates and arthropods Further chapters discuss the genomic consequences of living together in symbiotic associations the role of methanogens in syntrophic degradation and the function and evolution of hydrogenosomes hydrogen producing organelles of certain anaerobic protists Methanogens are prokaryotic microorganisms that produce methane as an end product of a complex biochemical pathway They are strictly anaerobic archaea and occupy a wide variety of anoxic environments Methanogens also thrive in the cytoplasm of anaerobic unicellular eukaryotes and in the

gastrointestinal tracts of animals and humans The symbiotic methanogens in the gastrointestinal tracts of ruminants and other methanogenic mammals contribute significantly to the global methane budget especially the rumenhosts an impressive diversity of methanogens This makes this updated volume an interesting read for scientists and students in Microbiology and Physiology *Enigmatic Microorganisms and Life in Extreme Environments* Joseph Seckbach, 2013-12-01 Modern methods and approaches such as the analysis of molecular sequences to infer evolutionary relationships among organisms have provided vast new sets of data to further our understanding of living organisms but there remain enigmas in the biological world that will keep scientists working and thinking for decades Microorganisms by virtue of their small size and almost unbounded diversity provide ample examples of intriguing mysteries that are being challenged with all of the techniques the modern scientific arsenal can provide One whole arena of this battle to resolve puzzling mysteries about various microorganisms is the almost unbelievable ability of many micro organisms to live in extreme environments Whether the challenge is extreme heat cold pressure hyper salinity alkalinity or acidity some micro organisms live now where no life might seem possible This fascinating state of affairs is the context for this present volume edited by Joseph Seckbach This Volume is a compilation of many of the especially interesting questions and biological challenges that arise in the consideration of microorganisms in general and the extremophiles in particular **Tropical Forests in Transition** J. Goldammer, 2013-03-08 In evolutionary time scales natural disturbances have affected the vegetation on Earth During the Quaternary the forest biomes of the tropics were subjected to manifold disturbances Climate changes and climate oscillations were associated with changing precipitation and drought regimes flooding siltation landslides etc The prehistorical forest was also influenced by the effects of large wildlife populations Large scale catastrophes in the forest biomes were mainly caused by abiotic environmental alterations the small scale disturbances were and still are related to both biotic and abiotic processes Both the large and the small scale disturbances have played a significant role in shaping distribution dynamics structure and composition of the paleoforest After the expansion of hominids and early humans and later by modern humans the anthropogenic influences on the tropical forest began to overlap natural disturbances Today's anthropogenic impacts on the tropical forests differ qualitatively and quantitatively from the natural disturbances The speed of tropical deforestation and savannization is dramatically increasing The physical and chemical impacts of forest conversion and biomass burning add to other anthropogenic influences on the atmosphere and climate The expected anthropogenic climate change will also have considerable impacts on the tropical flora and fauna The book on Tropical Forests in Transition synthesizes information on changing environmental conditions and human impacts on the tropical forest by looking back to the paleoecology analyzing the impact of modern human populations and modeling the future of the tropical forest in a changing environment The aim of the book is to strengthen multidisciplinary thinking in disturbance ecology *Wildlife Review*, 1989 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1989 Only in Africa Norman

Owen-Smith,2021-10-07 That humans originated from Africa is well known However this is widely regarded as a chance outcome dependant simply on where our common ancestor shared the land with where the great apes lived This volume builds on from the Out of Africa theory and takes the view that it is only in Africa that the evolutionary transitions from a forest inhabiting frugivore to savanna dwelling meat eater could have occurred This book argues that the ecological circumstances that shaped these transitions are exclusive to Africa It describes distinctive features of the ecology of Africa with emphasis on savanna grasslands and relates them to the evolutionary transitions linking early ape men to modern humans It shows how physical features of the continent especially those derived from plate tectonics set the foundations This volume adequately conveys that we are here because of the distinctive features of the ecology of Africa **The**

Complementarity of Feed Resources for Animal Production in Africa John E. S. Stares,A. N. Said,Jackson A.

Kategile,1992-01-01 **Pigs, Peccaries, and Hippos** William L. R. Oliver,IUCN/SSC Pigs and Peccaries Specialist

Group,IUCN/SSC Hippo Specialist Group,1993 *Ebook: Vertebrates: Comparative Anatomy, Function, Evolution* Kenneth

Kardong,2014-10-16 This one semester text is designed for an upper level majors course Vertebrates features a unique emphasis on function and evolution of vertebrates complete anatomical detail and excellent pedagogy Vertebrate groups are organized phylogenetically and their systems discussed within such a context Morphology is foremost but the author has developed and integrated an understanding of function and evolution into the discussion of anatomy of the various systems

The Florida Manatee Roger L. Reep,Robert K.,2021-04-14 From two scientists who have been at the forefront of manatee research for over three decades The Florida Manatee offers an engaging accessible introduction to manatee biology including communication diet long distance migration and much more This second edition is updated with new scientific research as well as discussions of recent conservation efforts largely driven by manatee injuries and deaths resulting from boat collisions that have contributed to the robust growth of manatee numbers in Florida It also includes the latest predictions for manatee populations and health in the future both in Florida and worldwide This is the perfect book for anyone seeking the most comprehensive current information on this fascinating marine mammal *The Inadequate*

Environment Thomas C.R. White,2012-12-06 Ecology is characterized by a rapidly growing complexity and diversity of facts aspects examples and observations What is badly needed is the development of common patterns of rules that as in other sciences such as physics can more generally explain the increasing complexity and variability we observe Tom White being one of the seniors in ecology makes such an attempt in his book the pattern he shows and explains with numerous examples from the entire animal kingdom is a universal hunger for nitrogen a misery that drives the ecology of all organisms He advocates that the awareness of this fundamental role that the limitation of nitrogen plays in the ecology of all organisms should be as a much part of each ecologist's intellectual equipment as is the awareness of the fact of evolution by means of natural selection His claim is that not energy but nitrogen is the most limited currency in the animal world for the production

and growth of their young *Ecology, Evolution and Behaviour of Wild Cattle* Mario Melletti, James Burton, 2014-10-30 A beautifully illustrated reference work on the biology ecology conservation status and management of all thirteen species of wild cattle and buffalo This book will be a valuable resource for students researchers and professionals in animal behaviour behavioural ecology evolutionary biology and conservation biology **Encyclopedia of Biodiversity** , 2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

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