

comparative animal nutrition and metabolism



Peter R. Cheeke and Ellen S. Dierenfeld

Comparative Animal Nutrition And Metabolism

SA Dillow



Comparative Animal Nutrition And Metabolism:

Comparative Animal Nutrition and Metabolism Peter R. Cheeke, Ellen Sue Dierenfeld, 2010 Nutrition is a very broad discipline encompassing biochemistry physiology endocrinology immunology microbiology and pathology Presenting the major principles of nutrition of both domestic and wild animals this book takes a comparative approach recognising that there are considerable differences in nutrient digestion metabolism and requirements among various mammalian and avian species Explaining species differences in food selection food seeking and digestive strategies and their significance to nutritional needs chapters cover a broad range of topics including digestive physiology metabolic disorders and specific nutrients such as carbohydrates proteins and lipids with particular attention being paid to nutritional and metabolic idiosyncrasies It is an essential text for students of animal and veterinary sciences

Comparative Animal Nutrition and Metabolism for Dummies Biden Dum Ph D, 2021-04-23 Evern h a metabolism But d d you know there r thr different t f m t b l m If you ve ever n someone n t ntl t ng nd not g n ng a single und wh r u uld l k t a l f k and g n weight th d ff r nt m t b l m t uld help t x l n wh Th three m t b l m types r nd m r h ectomorph nd mesomorph And though th words w ll l k l n v r appear n u l conversation t t ll nt l th t u understand th differences kn w ur t of m t b l m nd how t u th knowledge t f tn dv nt g

Comparative Animal Nutrition and Metabolism Peter R. Cheeke, Ellen Sue Dierenfeld, 2010 Presenting the major principles of nutrition of both domestic and wild animals this book takes a comparative approach recognising that there are considerable differences in nutrient digestion metabolism and requirements among various mammalian and avian species

Principles of Animal Nutrition Guoyao Wu, 2017-11-22 Animals are biological transformers of dietary matter and energy to produce high quality foods and wools for human consumption and use Mammals birds fish and shrimp require nutrients to survive grow develop and reproduce As an interesting dynamic and challenging discipline in biological sciences animal nutrition spans an immense range from chemistry biochemistry anatomy and physiology to reproduction immunology pathology and cell biology Thus nutrition is a foundational subject in livestock poultry and fish production as well as the rearing and health of companion animals This book entitled Principles of Animal Nutrition consists of 13 chapters Recent advances in biochemistry physiology and anatomy provide the foundation to understand how nutrients are utilized by ruminants and non ruminants The text begins with an overview of the physiological and biochemical bases of animal nutrition followed by a detailed description of chemical properties of carbohydrates lipids protein and amino acids It advances to the coverage of the digestion absorption transport and metabolism of macronutrients energy vitamins and minerals in animals To integrate the basic knowledge of nutrition with practical animal feeding the book continues with discussion on nutritional requirements of animals for maintenance and production as well as the regulation of food intake by animals Finally the book closes with feed additives including those used to enhance animal growth and survival improve feed efficiency for protein production and replace feed antibiotics While the classical and modern concepts of animal nutrition are emphasized

throughout the book every effort has been made to include the most recent progress in this ever expanding field so that readers in various biological disciplines can integrate biochemistry and physiology with nutrition health and disease in mammals birds and other animal species e g fish and shrimp All chapters clearly provide the essential literature related to the principles of animal nutrition which should be useful for academic researchers practitioners beginners and government policy makers This book is an excellent reference for professionals and a comprehensive textbook for senior undergraduate and graduate students in animal science biochemistry biomedicine biology food science nutrition veterinary medicine and related fields

Catalogue Rutgers University,1910 **Comparative Nutrition Of Man and Domestic Animals** H Mitchell,2012-12-02 Comparative Nutrition of Man and Domestic Animals Volume I discusses practical phases in the evaluation of the nutrient requirements of man and his domesticated animals and the factors that modify these quanta This book also covers various nutrients biochemical nature functions and participation in the energy transactions of the body Organized into 11 chapters the book initially discusses the principles of the basal metabolism and the activity increment and their role in evaluating maintenance requirement of human and animal for energy The subsequent chapter focuses on the maintenance requirement of protein under stress and non stress conditions Other chapters discuss nutrient requirements for maintenance such as water and minerals The book also examines the nutrient requirements for muscle activities growth senescence reproduction and lactation A discussion on the storage of nutritive material such as water protein minerals vitamins and energy is included This volume is an invaluable source for organic chemists biochemists animal physiologists zoologists and nutritionists

Annual Catalogue Rutgers College,Rutgers University,1916 **Animal Models of Disease** Cynthia Petrie Smith,1992 Animal Models of Disease Tim Allen,1995 **Veterinary Journal and Annals of Comparative Pathology** ,1912 *Which Degree?* ,1977 **Quick Bibliography Series** ,1976 Which University? ,1975 *Catalogue and Circular of the Agricultural and Mechanical College of Alabama* Agricultural and Mechanical College of Alabama,Auburn University at Montgomery. Division of Continuing Education,1962 **Quick Bibliography Series** National Agricultural Library (U.S.). Reference Division,1994 *Biological & Agricultural Index* ,1928 Folia Primatologica ,1991 The Melbourne University Calendar University of Melbourne,1922 **Calendar** University of Melbourne,1913 Medical and Health Care Books and Serials in Print ,1986

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