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Biology of Domestic Animals - Taylor & Francis Group

That the pattern of growth is predetermined and regular in plants and animals can be seen in the forms of adults. In some organisms, however, notably the slime molds, no regular pattern of growth occurs, and a formless cytoplasmic mass is the result.

Growth | biology | Britannica

ISBN: 0813829062 9780813829067: OCLC Number: 51242166: Description: x, 408 pages : illustrations ; 27 cm: Contents: 1. Origins of Domestic Animals and Their Importance to Man / Colin G. Scanes --2.Fundamental Concepts of Growth / Dennis Marple --3.Methods to Measure Animal Composition / David G. Topel --4.Approaches to Assess Animal Growth Potential / Roger E. Calza and Michael V. Dodson --5.

Biology of growth of domestic animals (Book, 2003 ...

Biology of Growth of Domestic Animals critically examines the fundamental process of growth both from a systems viewpoint (mathematical aspects, modeling, cell and molecular biology, hormones, growth factors, the extra-cellular matrix) and at the organ level (muscle, adipose, mammary gland and bone). The text considers the interface of growth with other disciplines including nutrition, genetics, and environment management, as well as specific aspects of growth in livestock and companion ...

Biology of Growth of Domestic Animals (2003, Hardcover ...

The chick embryo is a classical model to study eye development. As pituitary growth hormone (GH) is an established growth factor, it was tacitly assumed that it was causally involved in embryogenesis and eye growth. Ocular tissues are not just sites of GH production, as they express the GH receptor (GHR) gene and are thus sites of GH actions.

Growth Hormone and the Chick Eye | Biology of Domestic ...

Domestication, the process of hereditary reorganization of wild animals and plants into domestic and cultivated forms according to the interests of people. Domesticated animals and plants are created by human labor to meet specific requirements or whims and are adapted to conditions of continuous care.

domestication | Definition, Of Plants, Of Animals, & Facts ...

Impressive progress has been made during the past 15 years in our understanding of the biology of somatotropin (ST) in domestic animals. In part, this progress was sparked by advances in biotechnology that made feasible the production of large quantities of recombinant bovine ST (bST) and porcine ST (pST). The availability of recombinant bST and pST resulted in an exponential increase in investigations that explored their role in growth and lactation biology, as well as evaluated their ...

Biology of somatotropin in growth and lactation of ...

The Biology, Care, and Production of Domestic Animals . Fourth Edition . John R ... This textbook is intended as a comprehensive introduction to the biology, care, and production of domestic animals and freshwater ?sh raised to provide food, as well as pets kept for companionship and recreation. ... The Physiology of Growth and Senescence

Waveland Press - Animal Sciences - The Biology, Care, and ...

Etherton, Terry D., and Dale E. Bauman. Biology of Somatotropin in Growth and Lactation of Domestic Animals. *Physiol. Rev.* 78: 745 – 761, 1998. — Impressive progress has been made during the past 15 years in our understanding of the biology of somatotropin (ST) in domestic animals.

Biology of Somatotropin in Growth and Lactation of ...

Animals that have never been domesticated, such as kangaroos, can intentionally communicate with humans, challenging the notion that this behavior is usually restricted to domesticated animals ...

There is increasing interest in the biology of domestic animals ranging from genomics, transcriptomics, metabolomics, nutritional physiology, and systems biology. This book touches on all of these, with a particular focus on topics such as domestic animals as comparative models to humans, molecular regulation of growth, metabolic efficiency, reproduction, and the impact of stress on growth and development. The book concludes with a discussion on the current and future directions for researchers.

The latest advances in knowledge of growth biology are now available in a single, seminal volume. Biology of Growth of Domestic Animals critically examines the fundamental process of growth both from a systems viewpoint (mathematical aspects, modeling, cell and molecular biology, hormones, growth factors, the extra-cellular matrix) and at the organ level (muscle, adipose, mammary gland and bone). The text considers the interface of growth with other disciplines including nutrition, genetics, and environment management, as well as specific aspects of growth in livestock and companion animal species. Man's relationship with animals is reviewed as an introduction to the importance of domestic animals which have been critical to human development providing nutrition, income, transportation, locomotive power, companionship and entertainment.

PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT [e-reference@taylorandfrancis.com](mailto:e-reference@taylorandfrancis.com) Containing case studies that complement material presented in the text, the vast range of this definitive Encyclopediaencompasses animal physiology, animal growth and development, animal behavior, animal reproduction and breeding, alternative approaches to animal maintenance, meat science and muscle biology, farmed animal welfare and bioethics, and food safety. With contributions from top researchers in their discipline, the book addresses new research and advancements in this burgeoning field and provides quick and reader-friendly descriptions of technologies critical to professionals in animal and food science, food production and processing, livestock management, and nutrition.

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Animals and Human Society provides a solid, scientific, research-based background to advance understanding of how animals impact humans. As a resource for both science and non-science majors (including students planning to major in or studying animal science, pre-veterinary medicine, animal behavior, conservation biology, ecotoxicology, epidemiology and evolutionary biology), the book can be used as a text for courses in Animals and Human Society or Animal Science, or as supplemental material for an Introduction to Animal Science. The book offers foundational background to those who may have little background in animal agriculture and have focused interest on companion animals and horses. Animals have had profound effects on people from the earliest times, ranging from zoonotic diseases, to the global impact of livestock, poultry and fish production, to the influences of human-associated animals on the environment (on extinctions, air and water pollution, greenhouse gases, etc.), to the importance of animals in human evolution and hunter-gatherer communities. The volume introduces livestock production (including poultry and aquaculture) but also includes coverage of companion and lab animals. In addition, animal behavior and animal perception are covered. It can also function as a reference or recommended reading for a capstone class on ethical and public policy aspects related to animals. This book is likewise an excellent resource for researchers, academics or students newly entering a related field or coming from another discipline and needing foundational information, as well as interested laypersons looking to augment their knowledge on the many impacts of animals in human society. Features research-based and pedagogically sound content, with learning goals and textboxes to provide

key information Challenges readers to consider issues based on facts rather than polemics Poses ethical questions and raises overall societal impacts Balances traditional animal science with companion animals, animal biology, zoonotic diseases, animal products, environmental impacts and all aspects of human/animal interaction Includes access to PowerPoints that facilitate easy adoption and/or use for online classes

This book describes the cellular and molecular mechanisms that control farm animal growth, including development and body composition. The emphasis is on circulating hormones, local growth factors and gene transcription factors which regulate growth and differentiation of skeletal muscle, bone and adipose tissue. Overall, this book will be an important resource for students that have a limited background in cell, molecular and developmental biology and the effect of endocrine and growth factors on the growth process.

The Encyclopedia of Meat Sciences is an impressive and important body of work. Prepared by an international team of experts, this reference work covers all important aspects of meat science from stable to table, including animal breeding, physiology and slaughter, meat preparation, packaging, welfare, and food safety, to name a few. This Encyclopedia further covers important topics such as food microbiology, meat in human nutrition, biotechnological advances in breeding and many more. The Encyclopedia of Meat Sciences is an invaluable resource to practitioners of meat science and students alike. Also available online via ScienceDirect – featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy. For more information, pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com). Foreword written by Rt. Hon. Helen Clark, Prime Minister of New Zealand Over 200 articles covering all aspects of meat science Reading lists at the end of each article provide further information into primary literature Various figures and tables illustrating the text and a color plate section in each volume Appeals to students, academics researchers and professionals working not only in meat science, but also food science, veterinary sciences, agricultural engineering and livestock management Extensive cross-referencing

When considering the physiological systems of the body, the degree of species variation within the reproductive system compared to other systems is remarkable. Furthermore, it is essential that researchers, educators, and students alike remain aware of the fundamental comparative differences in the reproductive biology of domestic species. Written by renowned scientists in their respective fields, Comparative Reproductive Biology is a comprehensive reference on the reproductive systems of domestic species. The book offers both broad and specific knowledge in areas that have advanced the field in recent years, including advances in cell and molecular biology applied to reproduction, transgenic animal production, gender selection, artificial insemination, embryo transfer, cryobiology, animal cloning and many others. This seminal text includes topics in animal reproduction that are usually only found as part of other books in animal science such as anatomy, histology, physiology, radiology, ultrasonography, and others. \* Comprehensive reference of the reproductive systems of domestic species \* Written by a team of top researchers \* Richly illustrated throughout, including 12 pages of color images

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