

Introduction To Animal Science

Introduction to Animal Science Encyclopedia of Animal Science - (Two-Volume Set) Introduction to Animal Science An Illustrated Guide to Animal Science Terminology Introduction to Animal Science Introduction to Animal Science Introduction to Animal Science, Part II Introduction to Animal Science Introduction to Animal Science Introduction To Animal Science Principles of Laboratory Animal Science Introduction to Animal Science, Part II Animal Science Reviews 2011 Animal Sciences Introduction to Animal Science, Part III Encyclopedia of Animal Science Leading Source of New Knowledge and Perspective in Animal Science Critical Role of Animal Science Research in Food Security and Sustainability Techniques and Procedures in Animal Science Research W. Stephen Damron Wilson G. Pond Prentice-Hall Staff Colleen Michele Brady W. Stephen Damron National Agricultural Institute Wilson G. Pond H Rozar (ed) Floyd Byron Wolberg Stephen Rere L. F. M. van Zutphen David Hemming John R. Campbell Wilson G. Pond National Research Council American Society of Animal Science

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pond is for the mainstream introduction to animal science taught in every university that has a school of agriculture or animal science department the result of years of teaching the book provides students with a comprehensive and balanced overview of animal agriculture in contemporary society taking into account the needs of students with highly varied cultural backgrounds and educational objectives

the welfare of laboratory animals as well as the ethical issues involved in the humane use of animals for scientific purposes are discussed in this new revised edition information is included on the biology and husbandry of animal models on behavior stress and well being genetic and microbiological standardization health monitoring anaesthesiology animal alternatives ethics this book addresses all of the aspects that scientists need to know when considering the design of an animal experiment replacement reduction and refinement of animal experiments are the guiding principles for its contents

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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 authors teaching and research experiences in agriculture animal and dairy sciences and veterinary medicine provide the professional expertise that underpins the clearly written discussions of advances in animal sciences affecting humans globally coverage includes breeds and life cycles of livestock and poultry nutritional contributions of animal products to

humans the principles of animal genetics anatomy and physiology including reproduction lactation and growth animal disease and public health and insects and their biological control each chapter stands on its own instructors can assign higher priority to certain chapters and arrange topics for study in keeping with their preferred course outlines the text has been classroom tested for four decades in more than 100 colleges and universities at home and abroad additionally it is pedagogically enhanced with glossary terms in boldface type study questions at the end of each chapter more than 350 illustrations and historical and philosophical quotations these useful features aid students in comprehending scientific concepts as well as enjoying the pleasures derived from learning more about food producing animals horses and popular pets

the scope of the subject matter is broad domestic animals being vital for human existence and integral to all social and environmental affairs and the potential audience for this reference is broad as well including policy makers researchers agricultural producers students and concerned citizens some 300 signed entries cover topics related

by 2050 the world s population is projected to grow by one third reaching between 9 and 10 billion with globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated the demand for calories from animal products will nearly double highlighting the critical importance of the world s animal agriculture system meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security critical role of animal science research in food security and sustainability identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally this report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the united states to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies the agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met the recommendations of critical role of animal science research in food security and sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century

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