

Factors Affecting Calf Crop Biotechnology Of Reproduction

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American Book Publishing Record - 2002

Laboratory Production of Cattle Embryos - Ian Gordon 2003-01-01

3000 new references added since the first edition Gives information necessary to produce embryos totally through in vitro techniques Shows commercial applications of embryo and oocyte research Cattle remain at the forefront of many new developments in reproductive technology and what can be done for the cow today will later be applicable to other farm livestock and perhaps humans. This new edition reviews the considerable advances and issues in embryo production technology, based on reports since the first edition in 1994. This is a must have volume for those who own the first edition, and in itself an incredibly informative text.

THE SECOND REPORT ON THE STATE OF THE WORLD'S ANIMAL GENETIC RESOURCES FOR FOOD AND AGRICULTURE - Food and

Agriculture Organization of the United Nations 2018-06-06

Animal genetic resource diversity underpins the supply livestock products and services across a wide range of production environments. It promotes resilience and serves as a basis for adapting livestock management to changing conditions. It is vital to livelihoods of many of the world's poor people. It can contribute to the delivery of ecosystem services such as landscape management and the maintenance of wildlife

habitats. However, it is often undervalued, underused and under threat. This report updates the global assessment provided in the first report on The State of the World's Animal Genetic Resources for Food and Agriculture, published in 2007. It focuses particularly on changes that have occurred during the period since the first report was published. It serves as a basis for a review, and potential update, of the Global Plan of Action for Animal Genetic Resources, which since 2007 has provided an agreed international framework for the management of livestock biodiversity. Drawing on 129 country reports, it presents an analysis of the state of livestock diversity, the influence of livestock-sector trends on the management of animal genetic resources, the state of capacity to manage animal genetic resources, including legal and policy frameworks, and the state of the art in tools and methods for characterization, valuation, use, development and conservation.

Encyclopedia of Reproduction - Ernst Knobil 1998-10-23

"The present work should serve as a convenient and comprehensive source of information encompassing all aspects of the subject of reproduction as it relates to the entire animal kingdom." -- Preface, p. xxxiii.

Animal Genomics - Bhanu P. Chowdhary 2003

This publication provides an update on the current status of gene maps in different livestock and pet/companion animal species. The findings

summarized in species specific commentaries and original articles testify the rapid advances made in the field of animal genomics. Of significant interest is the fact that current investigations are providing headways for two important and exciting research fronts: targeted high-resolution mapping leading to the application of genomic information in addressing questions of economic and biological significance in animals, and the initiation of whole genome sequencing projects for some of the animal species. Like in humans and mice, this will set the stage for a new level of research and real time complex analysis of the genomes of these species. Animal Genomics signifies the beginning of a new era in this field and celebrates the achievements of the past 20 years of genomics research. It will be of special interest to researchers involved in genome analysis - both gross chromosomal as well as molecular - in various animal species, and to comparative and evolutionary geneticists.

Factors Affecting Calf Crop - Michael J. Fields 2001-11-21

In today's world, we are witnessing simultaneous breakthroughs in reproductive technologies, genomics, and molecular biology. Advances in molecular genetic technology and understanding of the bovine genome have led to the development of tools that can be used to enhance profitability on cow-calf enterprises. *Factors Affecting Calf Crop: Biotechnology of Reproduction* provides a detailed compilation of current and forthcoming technology for managing reproduction in cattle. The book discusses topics such as: approved techniques for controlling the estrous cycle in cattle; managing follicular growth with progesterone, estrogens, and prostaglandins; freezing, thawing, and transfer of cattle embryos; application of embryo transfer to the beef cattle industry; embryo transfer in topically adapted cattle; new factors affecting bull fertility; embryo collection and utilization technology, in vitro fertilization, somatic cell cloning, and genetic technologies; uses of real-time ultrasound; and sexed semen. Over 25 leading animal scientists have combined their expertise to produce the first single-source reference that covers successful reproductive techniques that will, most likely, be the wave of the future. Expansive in scope, the book addresses current biotechnologies as they impact the production of beef cattle.

Written at a level to appeal to the researcher, commercial producer, or student, *Factors Affecting Calf Crop: Biotechnology of Reproduction* presents you with a wealth of technologies applicable to animal agriculture.

Reproductive Technologies in Farm Animals - Ian Gordon 2004

In the past half century great progress has been made in the reproductive management of farm animals, both mammals and birds. This book aims to review developments and indicate which reproductive technologies can be used commercially or in research. It begins by discussing artificial insemination and how this has recently been refined in semen sexing technology. Embryo transfer, in vitro embryo production technology and the control of oestrus and ovulation are then reviewed. Subsequent chapters consider the control of postpartum ovarian activity, seasonal breeding, multiple births and litter size, pregnancy testing, parturition, and the onset of puberty. The author then describes more recent developments in cloning and the production of transgenic animals, before a final chapter on suppressing reproductive activity.

Current Therapy in Large Animal Theriogenology - E-Book - Robert S. Youngquist 2006-11-23

An essential resource for both students and practitioners, this comprehensive text provides practical, up-to-date information about normal reproduction and reproductive disorders in horses, cattle, small ruminants, swine, llamas, and other livestock. Featuring contributions from experts in the field, each section is devoted to a different large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females. Key topics include the evaluation of breeding soundness, pregnancy diagnosis, diagnosis and treatment of infertility, abortion, obstetrics, surgery of the reproductive tract, care of neonates, and the latest reproductive technology. Includes coverage of all large animal species. All sections provide a review of clinically pertinent reproductive physiology and anatomy of males and females of each species. Complete coverage of the most current reproductive technology, including embryo transfer, estrous synchronization, and artificial insemination. A new

section on alternative farming that addresses reproduction in bison, elk, and deer. New to the equine section: stallion management, infertility, and breeding soundness evaluation. New to the bovine section: estrous cycle synchronization, reproductive biotechnology, ultrasonographic determination of fetal gender, heifer development, and diagnosis of abortion. New to the porcine section: artificial insemination, boar/stud management, diseases of postpartum period, and infectious disease control. New to the llama section: infectious disease and nutrition.

Designing Foods - National Research Council 1988-02-01

This lively book examines recent trends in animal product consumption and diet; reviews industry efforts, policies, and programs aimed at improving the nutritional attributes of animal products; and offers suggestions for further research. In addition, the volume reviews dietary and health recommendations from major health organizations and notes specific target levels for nutrients.

Safety of Genetically Engineered Foods - National Research Council 2004-07-08

Assists policymakers in evaluating the appropriate scientific methods for detecting unintended changes in food and assessing the potential for adverse health effects from genetically modified products. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The book offers a framework to guide federal agencies in selecting the route of safety assessment. It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

Fundamentals of Food Biotechnology - Byong H. Lee 2015-02-16

Fundamentals of Food Biotechnology Food biotechnology is the application of modern biotechnological techniques to the manufacture and processing of food; for example, through fermentation of food (which is the oldest biotechnological process) and food additives, as well as plant and animal cell cultures. New developments in fermentation and

enzyme technological processes, molecular thermodynamics, genetic engineering, protein engineering, metabolic engineering, bioengineering, and processes involving monoclonal antibodies, nanobiotechnology and quorum sensing have introduced exciting new dimensions to food biotechnology, a burgeoning field that transcends many scientific disciplines. Fundamentals of Food Biotechnology, 2nd edition is based on the author's 25 years of experience in teaching on a food biotechnology course at McGill University in Canada. The book will appeal to professional food scientists as well as graduate and advanced undergraduate students by addressing the latest exciting food biotechnology research in areas such as genetically modified foods (GMOs), bioenergy, bioplastics, functional foods/ nutraceuticals, nanobiotechnology, quorum sensing and quenching. In addition, cloning techniques for bacterial and yeast enzymes are included in a "New Trends and Tools" section and selected references, questions, and answers appear at the end of each chapter. This new edition has been comprehensively rewritten and restructured to reflect the new technologies, products, and trends that have emerged since the original book. Many new aspects highlight the short- and longer-term commercial potential of food biotechnology. Food Biochemistry and Food Processing, 2nd Edition Edited by Benjamin K. Simpson, Leo M.L. Nollet, Fidel Toldra, et al. ISBN 978-0-8138-0874-1 Food Processing: Principles and Applications, 2nd Edition Edited by Stephanie Clark (Editor), Stephanie Jung, Buddhi Lamsal ISBN 978-0-470-67114-6 *Annual Research Report* - University of Florida. College of Engineering 2001

Tüm Yönleriyle İneklerde Embriyonik Ölümler ve Abortus - Pınar AYVAZOĞLU DEMİR 2022-01-20

Reproductive Technologies in Farm Animals, 2nd Edition - Ian Gordon 2017-06-23

Building on the successful structure of the first edition, the second edition of Reproductive Technologies in Farm Animals has been totally

updated and revised to provide an up to date account of the key techniques employed in manipulating reproduction in farm animals, including beef and dairy cattle, pigs, sheep, goats, buffaloes, camelids, horses and poultry. A classic introductory text to the subject, the book is based on a comprehensive review of the current literature. This text remains key reading for students in animal science, agriculture, veterinary medicine and biology, and veterinary practitioners and farmers who wish to keep updated on developments in techniques that may be useful in their daily practice.

Plant Biotechnology and Genetics - C. Neal Stewart, Jr. 2012-12-13

Designed to inform and inspire the next generation of plant biotechnologists Plant Biotechnology and Genetics explores contemporary techniques and applications of plant biotechnology, illustrating the tremendous potential this technology has to change our world by improving the food supply. As an introductory text, its focus is on basic science and processes. It guides students from plant biology and genetics to breeding to principles and applications of plant biotechnology. Next, the text examines the critical issues of patents and intellectual property and then tackles the many controversies and consumer concerns over transgenic plants. The final chapter of the book provides an expert forecast of the future of plant biotechnology. Each chapter has been written by one or more leading practitioners in the field and then carefully edited to ensure thoroughness and consistency. The chapters are organized so that each one progressively builds upon the previous chapters. Questions set forth in each chapter help students deepen their understanding and facilitate classroom discussions. Inspirational autobiographical essays, written by pioneers and eminent scientists in the field today, are interspersed throughout the text. Authors explain how they became involved in the field and offer a personal perspective on their contributions and the future of the field. The text's accompanying CD-ROM offers full-color figures that can be used in classroom presentations with other teaching aids available online. This text is recommended for junior- and senior-level courses in plant biotechnology or plant genetics and for courses devoted to special

topics at both the undergraduate and graduate levels. It is also an ideal reference for practitioners.

Book Of Abstracts Of The 54th Annual Meeting Of The European Association For Animal Production - Y. Van Der Honing 2003-09

Reproduction in Domestic Ruminants VII - M. C. Lucy 2011-02-01

The combined work of eminent scientists in the field, this compilation contains the latest information on ruminant nutrition from the eighth annual International Ruminant Reproduction Symposium. With discussions on how to improve reproduction by applying nutrition and physiology, this collection spotlights the recent advances regarding the ruminant genome and includes chapters about specific animals, including the dairy buffalo, camel, and reindeer.

Encyclopedia of Animal Science - (Two-Volume Set) - Wilson G.

Pond 2018-10-08

PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT reference@taylorandfrancis.com Containing case studies that complement material presented in the text, the vast range of this definitive Encyclopedia encompasses 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.

Annual Research Report of the Florida Agricultural Experiment Station, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, Florida - University of Florida. Agricultural Experiment Station 2001

Factors Affecting Calf Crop - Michael J Fields 2019-08-30

In today's world, we are witnessing simultaneous breakthroughs in

reproductive technologies, genomics, and molecular biology. Advances in molecular genetic technology and understanding of the bovine genome have led to the development of tools that can be used to enhance profitability on cow-calf enterprises. **Factors Affecting Calf Crop: Biotechnology of Reproduction** provides a detailed compilation of current and forthcoming technology for managing reproduction in cattle. The book discusses topics such as: approved techniques for controlling the estrous cycle in cattle; managing follicular growth with progesterone, estrogens, and prostaglandins; freezing, thawing, and transfer of cattle embryos; application of embryo transfer to the beef cattle industry; embryo transfer in topically adapted cattle; new factors affecting bull fertility; embryo collection and utilization technology, in vitro fertilization, somatic cell cloning, and genetic technologies; uses of real-time ultrasound; and sexed semen. Over 25 leading animal scientists have combined their expertise to produce the first single-source reference that covers successful reproductive techniques that will, most likely, be the wave of the future. Expansive in scope, the book addresses current biotechnologies as they impact the production of beef cattle. Written at a level to appeal to the researcher, commercial producer, or student, **Factors Affecting Calf Crop: Biotechnology of Reproduction** presents you with a wealth of technologies applicable to animal agriculture.

Critical Role of Animal Science Research in Food Security and Sustainability - National Research Council 2015-03-31

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.

Amino Acids in Nutrition and Health - Guoyao Wu 2021-03-26

Amino acids (AAs) are not only building blocks of protein, but are also signalling molecules as well as regulators of gene expression and the protein phosphorylation cascade. Additionally, AAs are key precursors for syntheses of hormones and low-molecular weight nitrogenous substances with each having enormous biological importance. For example, physiological concentrations of AA metabolites (e.g., nitric oxide, polyamines, glutathione, taurine, thyroid hormones, and serotonin) are required for cell functions. Growing evidence shows that humans and animals have dietary requirements for all proteinogenic AAs. Mammals, birds and fish also have species- and age-dependent needs for some AA-related substances. However, elevated levels of other products (e.g., ammonia, homocysteine, H₂S, and asymmetric dimethylarginine) are pathogenic factors for neurological disorders, oxidative stress, and cardiovascular disease. Thus, optimal amounts of AAs and their ratios in

diets and circulation are crucial for whole body homeostasis and health. Adequate provision of one or a mixture of functional AAs or metabolites may be beneficial for ameliorating health problems at various stages of the life cycle (e.g., fetal growth restriction, neonatal morbidity and mortality, weaning-associated intestinal dysfunction and wasting syndrome, obesity, diabetes, cardiovascular disease, the metabolic syndrome, and infertility). Dietary supplementation of these nutrients can also optimize the efficiency of metabolic transformations to enhance muscle growth, milk production, and athletic performance, while preventing excess fat deposition and reducing adiposity. Therefore, functional AAs hold great promise in improving the growth, health and well-being of individuals. Chapter 7 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Wolf Prize in Agriculture - Ilan Chet 2009

This specially compiled volume contains contributions from Wolf Prize laureates. In agriculture, there is no higher prize than the Wolf Prize. The book includes a list of publications and the most important papers in plant and animal breeding, genetics, biochemistry and plant protection, biotechnology, as well as chemistry and the physics of soils.

Biotechnologies Applied to Animal Reproduction - Juan Carlos Gardón 2020-11-01

This comprehensive volume focuses on recent trends and new technologies used in the management of reproduction in major farm animals, focusing on both males and females of bovine, equine, and porcine species. With chapters written by scientists who specialize in their respective topics, the volume presents a selection of different technologies that have been developed to assure reproductive success by improving reproductive efficiency, generating germplasm banks, and maintaining genetic diversity in cattle, horses, and pigs. In the last decade, reproductive technologies in veterinary medicine have progressed considerably, providing high profitability to livestock farms. This book provides basic and applied information on the most used reproductive technologies in bovine, equine, and porcine species for

academics, scientists, and veterinarians. The volume discusses reproductive and postpartum management, reproductive ultrasound, sperm management, egg retrieval, artificial insemination, embryo transfer, nutrition, genetics, and certain clinical aspects, such as endocrinology and robustness of reproductive systems.

Agricultural Biotechnology - National Research Council (U.S.). Committee on a National Strategy for Biotechnology in Agriculture 1987-01-01

Executive summary and recommendations. Scientific aspects. Funding and institutions. Training. Technology transfer.

SFT Annual Conference and Symposium - Society for Theriogenology. Conference 2003

Controlled Reproduction in Cattle and Buffaloes - Ian Gordon 1996

This book is the first in a set of four providing a series on controlled reproduction in farm animals. The aim of the series is to provide a general review of the literature dealing with the different ways in which reproduction in the major farm mammals can be controlled and manipulated. The four volumes are effectively an expanded and new edition of a previous work, *Controlled Breeding in Farm Animals* (Pergamon Press, 1983). However, the literature on this subject has expanded so rapidly since the time of the earlier volume, that it is now thought appropriate to publish it in four separate volumes. Buffaloes, goats, deer and camelids have been added to the species covered by the series compared to the previous book. All volumes provide comprehensive reference lists and are fully up-to-date. This first volume focuses on cattle and buffaloes. It will appeal to reproductive physiologists and workers in animal production, animal breeding and veterinary medicine.

Animal Biotechnology 1 - Heiner Niemann 2018-08-12

This two-volume textbook provides a comprehensive overview on the broad field of Animal Biotechnology with a special focus on livestock reproduction and breeding. The reader will be introduced to a variety of state-of-the-art technologies and emerging genetic tools and their

applications in animal production. Also, ethics and legal aspects of animal biotechnology will be discussed and new trends and developments in the field will be critically assessed. The two-volume work is a must-have for graduate students, advanced undergraduates and researchers in the field of veterinary medicine, genetics and animal biotechnology. This first volume mainly focuses on artificial insemination, embryo transfer technologies in diverse animal species and cryopreservation of oocytes and embryos.

The Buffalo (*Bubalus bubalis*) - Production and Research - Giorgio A. Presicce 2017-03-31

This handbook aims at focusing on the husbandry of the common water buffalo, (*Bubalis bubalis*). The book covers a broad range of topics such as the buffalo's genetic evolution, cytogenetics, subspecies, breed diversification, feeding and metabolic specificity, adaptable response to environmental stress factors, welfare, dairy requirements and production, reproduction and embryo technologies, cryopreservation, sperm cell sexing, somatic cell cloning and transgenesis. Chapters presented and reviewed in this book have been contributed by renowned scientists that have devoted years of research to the understanding of this species, and highlight the most recent advances in basic and applied science to unveil the understanding of physiological facets intrinsic to this animal species. The depth of the selected topics makes this book especially suited for readers of all academic levels of study. Researchers, students and professionals will find this book a useful guide to breeding and farming the water buffalo.

Beef Heifer Development, An Issue of Veterinary Clinics: Food Animal Practice, - David J Patterson 2013-11-14

The latest information on heifer development in beef cattle for the food animal practitioner! Topics include rebuilding the US cowherd, physiology and endocrinology of puberty, nutritional development and the target weight debate, long-term reproductive health, effect of prenatal programming on development, economics of development, synchronization of estrus and ovulation, post breeding heifer management, management strategies for adding value to heifers, and

more!

Proceedings of the Seventh International Symposium on Reproduction in Domestic Ruminants, Wellington, New Zealand, August 2006 - J. L. Juengel 2007

Sperm-mediated Gene Transfer - Kevin Richard Smith 2012

"Sperm-mediated gene transfer (SMGT) represents a novel set of technologies for animal (or in the future, human) genetic modification using the sperm as a vector, as opposed to more traditional established routes such as fertilized eggs or embryonic stem c"

Role of Biotechnology in Agriculture - B. N. Prasad 1992

In the context of South Asian Association for Regional Cooperation countries.

Reproduction in Domestic Ruminants V - B. K. Campbell 2003

Genetics and the Behavior of Domestic Animals - Temple Grandin 2022-07-13

Genetics and the Behavior of Domestic Animals, Third Edition offers the latest and most valuable information on animal science and behavioral genetics, carrying on the book's legacy since its original publication in 1998. This book synthesizes research from behavioral genetics and animal and veterinary science, bridging the gap between these fields. The objective is to show that principles of behavioral genetics have practical applications to agricultural and companion animals. The continuing domestication of animals is a complex process whose myriad impacts on animal behavior are commonly under-appreciated. Genetic factors play a significant role in both species-specific behaviors and behavioral differences exhibited by individuals in the same species. Leading authorities explore the impact of increased intensities of selection on domestic animal behavior. Rodents, cattle, pigs, sheep, horses, herding and guard dogs, and poultry are all included in these discussions of genetics and behavior, making this book useful to veterinarians, livestock producers, laboratory animal researchers and technicians, animal trainers and breeders, and any researcher interested

in animal behavior. *Genetics and the Behavior of Domestic Animals*, Third Edition is the most valuable resource for researchers and practitioners in animal and veterinary science, animal behavior, genetics, ethology, and similar fields. Advanced undergraduate and graduate students in these disciplines will also benefit from the global expertise featured in this newest edition. Provides full and thorough updates to all chapters, ensuring dissemination of the latest data and research. Synthesizes research from behavioral genetics, animal science, and veterinary literature. Broaches fields of behavior genetics and behavioral research. Includes practical applications of principles discovered by behavioral genetics researchers. Covers many species ranging from pigs, dogs, foxes, rodents, cattle, horses, and cats.

Encyclopedia of Animal Science (Print) - Wilson G. Pond 2004-11-16
PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT reference@taylorandfrancis.com

Regulation of Implantation and Establishment of Pregnancy in Mammals - Rodney D. Geisert 2015-10-08

Over the past few decades technological advances in transcriptomics, proteomics, metabolomics, and glycomics along with the ability to selectively knockout genes of interest has greatly advanced our understanding of maternal-conceptus interactions that are essential for the establishment and maintenance of a successful pregnancy. This knowledge provides a foundation from which to build research endeavors to help resolve infertility, embryonic loss and recurrent abortion in humans, captive wild animals and important farm species. The present volume on "Regulation of Implantation and Establishment of Pregnancy in Mammals" brings together current reviews from leading experts to address the diversity of mechanisms by which species establish and maintain pregnancy. Implantation in rodents, dogs, pigs, cattle, sheep, horses, primates, humans and embryonic diapause in wild species are discussed. Reviews will provide current knowledge on the role of endometrial steroid receptors, adhesion factors, cytokines, interferons, steroids, prostaglandins, growth factors and immune cells involved with regulation of conceptus development.

[Sustainable Agriculture Reviews 54](#) - Vinod Kumar Yata 2021-09-29

This book reviews concepts and recent advances of biotechnological approaches for livestock production. Indeed, biotechnologies have recently emerged as powerful tools for animal breeding, genetics, production, nutrition, and animal health. Applications to the production of livestock such as cattle, camel, and poultry are detailed. Chapters also present biotechnological applications for diagnostics, animal nutrition, and animal food production.

Foot and Mouth Disease - Francisco Sobrino 2004-08-12

The shock following the recent outbreak of foot-and-mouth disease (FMD) in the UK dispelled the notion that this disease was permanently under control and could be forgotten. FMD proved to be an endemic disease in many countries and continues to pose a major threat to animal health worldwide. The development of more effective and socially acceptable diagnosis and control measures is essential to effectively combat this devastating virus. *Foot and Mouth Disease: Current Perspectives* benefits researchers by presenting the latest developments resulting from the upsurge in data concerning this disease.

Interdisciplinary in its approach, this book offers the first coherent picture of emerging strategies for diagnosis and control. With contributions from respected FMD researchers worldwide, this volume provides comprehensive coverage of the entire spectrum of FMD issues. Topics include genome organization, translation and replication of FMD virus RNA, proteinases, virus particles, clinical signs of FMD, and much more. This book delivers essential information for everyone with an interest in FMD, such as virologists, molecular biologists, biotechnologists, veterinarians, and pharmaceutical and biotech researchers.

Global Economic Prospects 2009 - The World Bank 2008-12-09

The eruption of the worldwide financial crisis has radically recast prospects for the world economy. 'Global Economic Prospects 2009: Commodity Markets at the Crossroads' analyzes the implications of the crisis for low- and middle-income countries, including an in-depth look at long-term prospects for global commodity markets and the policies of

both commodity producing and consuming nations. Developing countries face sharply higher borrowing costs and reduced access to capital. This will cut into their capacity to finance investment spending ending a five-year stretch of developing-country growth in excess of 6 percent annually. The looming recession presents new risks, coming as it does on the heels of the recent food and fuel crisis. Commodity markets, meantime, are at a crossroads. Years of fast GDP growth contributed to the rise in commodity prices, while the slowdown provoked by the financial crisis has seen those same prices plummet. However, other factors were also at play, notably a period of low investment in commodity supply capacity during the 1990s due to low prices and reduced demand from the countries of the former Soviet Bloc. In the longer run, slower population growth is expected to ease the pace at which commodity demand grows, while commodity producers are expected to discover sufficient new supplies and improved production techniques to prevent any acute shortages from developing. In part, this

is because prices are projected to be higher than they were in the 1990s, which will induce necessary investment in exploration and production by firms. Higher prices will also promote greater conservation and substitution with more abundant alternatives, while policies to limit carbon emissions and boost agricultural investment and the dissemination of efficient techniques will also contribute. This year's 'Global Economic Prospects' also looks at government responses to the recent price boom. Producing-country governments have been more prudent than during earlier booms, and because they have saved more of their windfall revenues, they are less likely to be forced to cut into spending now that prices have declined. The spike in food prices tipped more people into poverty, which led governments to expand social assistance programs. Ensuring such programs are better targeted toward the needs of the very poor in the future will help improve the capacity of governments to respond effectively the next time there is a crisis.