

Plasma Pig

Mark Steyvers

Effects of Different Management Strategies and Dietary Spray-dried Porcine Plasma on Early-weaned Pig Performance and the Occurrence of Gastrointestinal Hemolytic Escherichia Coli Florian A. Chirra,1998

Pig Growth Hormone Roderick James Chappel,1972

Control of Pig Reproduction D.J.A. Cole,G. R. Foxcroft,2013-10-02 Control of Pig Reproduction focuses on carefully evaluated techniques and technologies involved in the control of pig reproduction. The selection first ponders on the sexual development of male pigs, including early fetal, perinatal, and pubertal periods. The text also discusses testicular steroids and boar taint; interrelationships between spermatozoa, female reproductive tract, and egg investments; and artificial insemination. Discussions focus on androgens, estrogens, deposition of semen and uterine transit, sperm regulation and release by the isthmus, and types of artificial insemination. The manuscript examines endocrine control of sexual maturation in female pigs and sexual differentiation of the stimulatory estrogen feedback mechanism and factors affecting the natural attainment of puberty in gilts. Discussions focus on development of ovarian function and gonadal steroid levels; development of the stimulatory estrogen feedback mechanism; and maturation of negative feedback of gonadal steroids. The text also takes a look at controlled induction of puberty, endocrine control of the estrus cycle, and control of ovulation. The selection is a valuable reference for farmers and readers interested in pig reproduction.

The Biology of the Pig Wilson G. Pond,Katherine A. Houpt,1978 The pig as a model in biomedical research; Behavior; Prenatal development; Postnatal development; Reproductive Physiology; Lactation and the mammary gland; Anesthesia, blood sampling, and surgery; Body fluids, hematology and immunology; Nutrition; Husbandry, handling, and restraint.

Advances in Swine in Biomedical Research L.B. Schook,M.E. Tumbleson,2013-03-07 Similarities in structure and function between pigs and human beings include size, feeding patterns, digestive physiology, dietary habits, kidney structure and function, pulmonary vascular bed structure, coronary artery distribution, propensity to obesity, respiratory rates, tidal volumes and social behaviors. Since the pig is an omnivore, it provides an adaptable model to evaluate chronic and acute exposures to xenobiotics such as alcohol, caffeine, tobacco, food additives and environmental pollutants. Swine have been used successfully as models to evaluate alcoholism, diabetes, absorption, digestion, total parenteral nutrition, organ transplantation, atherosclerosis, exercise, hypertension, hemorrhagic hypotension, melanoma, gingivitis, obstructive and reflux nephropathy, osteochondrosis, dermal healing and septic shock. A severe and worsening shortage of organs and tissues for transplantation in patients with severe organ failure has encouraged the consideration of interspecies or xenotransplantation. In developing programs toward this end, the pig generally is viewed as the preferred donor because of its size, physiology and availability. The pig harbors relatively few diseases which could be transmitted inadvertently to human patients. The ability to genetically modify swine to ameliorate the consequences of the human immune response offers a further significant advantage. Another important consideration for an animal model is that basic biological background information be available for investigators to design future prospective studies.

Weaning the pig J.R. Pluske,J. Le Dividich,M.W.A. Verstegen,2023-08-28 'Weaning the Pig: Concepts and Consequences' is a new book that addresses the major issues surrounding the weaning process, both for piglets and the breeding herd, in modern-day pig production. The post-weaned pig presents many challenges to the manager, stockperson and nutritionist, and as such is a critical phase in the overall production system. Numerous challenges are also faced by the sow, which is required to be rebred as soon as possible after weaning. This book draws together summaries of research dealing with both piglets and the sow, and is a unique book in this regard. Accordingly, the material presented covers in detail the following areas associated with the weaning process: growth of the weaned pig, nutritional management in preparation for weaning, behavioural changes and adaptations around weaning, voluntary feed intake, digestive physiology, modulation of small intestinal integrity, the intestinal microflora and diarrhoeal diseases after weaning, intestinal immunity, nutritional requirements and intestinal requirements of the weaned pig, environmental and housing issues after weaning, saving and rearing supernumery and underprivileged piglets, and productivity and longevity of the weaned sow. The chapters have been written by acknowledged experts from around the world. The book is an ideal reference for all professions associated with the pig industry, and is invaluable as a text for students at both undergraduate and postgraduate levels.

The Neonatal Pig Mike A. Varley,1995 Genetics and physiology of the neonatal pig; Genetics and neonatal survival; Immunology and neonatal mortality; Thermoregulation and the environment; The gut and nutrition of the neonatal pig; Development of the neonatal gut and enzyme systems; Microbiology of the gut and the role of probiotics; Nutrition of the neonatal pig; Diseases, behaviour and husbandry of neonatal pigs; Principal neonatal diseases; The physical environment and mortality; Behavioural aspects of piglet survival and growth; Human care and the neonatal pig; The way ahead.

The Relationship of Plasma Insulin and Cortisol to Selected Plasma Constituents and to Carcass Consumption in the Pig Dennis Dale Crenwelge,1978

Boar Reproduction Sergi Bonet,Isabel Casas,William V Holt,Marc Yeste,2013-02-01 Latent knowledge in the field of pig reproduction is vast but scattered, making it difficult to take in all information at a glance. Moreover, nascent branches in biotechnology cannot grow if deprived of roots. The book Boar Reproduction: Fundamentals and New Biotechnological Trends links the past, the present and the emerging scientific research fields on reproductive biotechnology, offering a rigorous but easy to follow compilation of topics, from "old favorites" to the latest advances. The book is organized in three parts. The chapters of the first and second part cover various biological aspects of boar spermatozoa within the male, and within the female environments, respectively. The most common laboratory and artificial insemination techniques are discussed in the third part. As an additional feature, some chapters focus on the basis of a technology transfer to bring research expertise from basic science to the market, making the information provided in this book suitable for academic, research and other professional applications.

Assessment of Spray-dried Animal Plasma and Immunoglobulins in Early-weaned Pig Diets James Lewis Pierce,1996

Welfare of pigs Luigi Faucitano,Allan L. Schaefer,2023-08-28 The current scientific literature contains reviews and articles on specific aspects of pig production and farm animal welfare. This book is intended to be a reference text that covers all aspects of pig production, on the basis of scientific results. This work contains current, easy-to-understand scientific reviews on animal welfare with over 700 specific references to animal welfare. All aspects of animal welfare with respect to pigs are discussed, from genetic selection and breeding to transportation and slaughter. This work was written by scientific experts renowned for their knowledge and work in the area of pig welfare. Their common goal was to provide an in-depth review and empirical assessment of pig production concepts, knowledge and techniques in use today. Through scientific examples, the authors explain how improving animal welfare increases profitability. This work is intended for academics, researchers, students, animal welfare associations, industry and anyone who is involved in the production chain or concerned about the welfare of pigs being raised on farms.

The Weaner Pig M. A. Varley,J. Wiseman,2001-11-01 This book is developed from a British Society of Animal Science occasional meeting, held in September 2000. It brings together all of the scientific disciplines involved in the pre- and post-weaning biology of the piglet, concentrating on growth/development, nutrition, immunology/health, ethology and the physical environment.

Swine in Biomedical Research Mike E. Tumbleson,1986

Carotene Requirements of the Pig James Franklin Hentges,1952

Cold Atmospheric Plasmas: Their Use In Biology And Medicine Spencer P Kuo,2019-01-25 Cold atmospheric plasma (CAP) generators have been actively developed as a new device for medical treatment. The applications of plasma treatment include 1) disinfection, sterilization, and decontamination, which inactivates or kills bacteria, fungi, viruses and spores; 2) bleeding control, which coagulates blood swiftly; 3) wound healing, which shortens the healing period and benefits the regeneration of the epithelization of tissue to avoid scar formation; etc. Biomedical applications of CAPs are explored via either in-vitro assays, or in-vivo tests using pigs as animal models; tests include sterilization of oral pathogens and biofilm, decontamination of biological warfare agent, blood clotting and rapid control of active life-threatening hemorrhage, and post-operative observation of wound healing after plasma treatment. The conventional approaches in each application are first introduced, then the advantages of plasma treatments are discussed and demonstrated by the test results. The mechanisms of CAPs' biocidal effect, blood clotting effect, and wound healing effect are presented and discussed.

Manipulating Pig Production III Australasian Pig Science Association. Conference,Australasian Pig Science Association,1991

Swine Nutrition Elwyn R. Miller,Duane E. Ullrey,Austin J. Lewis,2013-10-22 Swine Nutrition is a comprehensive text-reference that deals with the various aspects and knowledge in swine nutrition. The book is basically about nutrient utilization by swine. The topics discussed concerning this subject are factors influencing swine nutrition, nutrient bioavailability, appetite and feeding behavior, physical forms of feed, environment and management, immunocompetence, genetic and sex considerations, mycotoxins, and intestinal microbiology. Major and unique feedstuffs, feeding regimen in different stages of growth, and techniques in swine nutrition research are also elaborated. The text will be useful to students of advance swine nutrition courses as well as those seeking information in swine nutrition.

Nebraska Swine Report ,1992

Manipulating Pig Production Australasian Pig Science Association. Biennial Conference,John Lawrence Barnett,Australasian Pig Science Association,1987

Biotechnology, Growth Hormone in the Pig, January 1979-December 1988 Jean A. Larson,1989

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