

Unraveling The Genetics Of Bovine Johnes Disease Digestive Diseases Research And Clinical Developments

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Unravelling genetic variation underlying de novo-synthesis ...
 Background. Selection of cattle that are less sensitive to environmental variation in unfavorable environments and more adapted to harsh conditions is of primary importance for tropical beef cattle production systems. Understanding the genetic background of sensitivity to environmental variation is necessary for developing strategies and tools to increase efficiency and sustainability of beef production.

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Unraveling The Genetics Of Bovine Johnes Disease Digestive ...
 This thesis aimed to unravel the genetic background of bovine milk fat composition by detection, confirmation and fine-mapping of quantitative trait loci (QTL) for milk fatty acids in Dutch Holstein Friesian cattle. In addition, causal relations between fatty acids were explored.

Unraveling the genetic background of bovine milk fat ...
 unraveling the genetics of bovine johnes disease digestive diseases research and clinical developments johnes disease is a chronic enteritis of ruminants caused by m paratuberculosis this bacteria embeds itself in the wall of the lower most information about johnes disease jd comes from dairy cattle

Johne's disease is a chronic, granulomatous enteritis of ruminants and some wild-type species that is caused by infection with *Mycobacterium avium* spp. paratuberculosis (MAP). This inflammatory bowel disease (IBD) is characterised by a lengthy yet variable asymptomatic subclinical phase in which infected animals can transmit MAP to their progeny and herd mates. This is followed by a clinical phase characterised by chronic diarrhoea, wasting, and eventually death. The impact of Johne's disease is particularly evident in the dairy and beef industries, where significant losses due to reduced productivity and fertility, mortality, and premature culling have been reported. This book addresses the genetics of this condition and its possible treatments.

Despite not being a disease in and of itself, antibiotic resistance could be considered the global epidemic of modern times, since it produces the failure to prevent and treat many infectious diseases. This can ultimately lead to untreatable microbial infections becoming more widespread and this will significantly increase morbidity and mortality. This worldwide problem is estimated to cause millions of deaths per year and could become an even more significant menace to humanity than established illnesses, such as cancer. In February 2017, the World Health Organization (WHO) published a list of antibiotic-resistant " priority pathogens " – a catalogue of 12 families of bacteria which pose the greatest threat to human health - and *Acinetobacter baumannii* is leading the list. The most critical group includes multidrug-resistant bacteria, which pose a particular threat in hospitals, nursing homes, and among patients whose care requires devices such as ventilators and blood catheters. This group includes *Acinetobacter*, *Pseudomonas*, and various *Enterobacteriaceae* and they are often associated with deadly infections, such as bloodstream infections and pneumonia. Furthermore, these bacteria have become resistant to a large number of antibiotics, including carbapenems and third generation cephalosporins – the best available antibiotics for treating multidrug-resistant bacteria. *A. baumannii* is a particularly worrisome example and demands attention: This pathogen turned into a menace to humans during the late 70s, likely as a result of intense antibiotic use in hospital settings, and became one of the microorganisms that are challenging the antibiotic era. Its extreme genome plasticity, combined with mechanisms of horizontal genetic transfer, have played a key role in the evolution of this microorganism, as well as its adaptability to unfavorable environments. However, its pathophysiology, as well as the mechanisms leading to its success as a pathogen, are not that simple to unveil. However, what is clear is that the triad of host-pathogen-environment is crucial in selection and establishment of multidrug-resistant clones and outbreaks. Indeed, there are still many aspects of this pathogen that require a deeper understanding - not only regarding mechanisms of resistance but also its global pathophysiology. For example, basic understanding of transmission mechanisms; knowledge of ' external ' factors modulating persistence of the pathogen; genetic effects on host susceptibility and infectiousness; mechanisms of pathogenicity and their dynamics; and genetic variation of the pathogen affecting virulence and transmissibility are some aspects that would require further study. Furthermore, the importance of other members of the genus as important nosocomial pathogens, such as *Acinetobacter nosocomialis*, has been increasingly recognized during the last few years.

In Masterminding Nature, Margaret Derry examines the evolution of modern animal breeding from the invention of improved breeding methodologies in eighteenth-century England to the application of molecular genetics in the 1980s and 1990s. A clear and concise introduction to the science and practice of artificial selection, Derry ' s book puts the history of breeding in its scientific, commercial, and social context. Masterminding Nature explains why animal breeders continued to use eighteenth-century techniques well into the twentieth century, why the chicken industry was the first to use genetics in its breeding programs, and why it was the dairy cattle industry that embraced quantitative genetics and artificial insemination in the 1970s, as well as answering many other questions. Following the story right up to the present, the book concludes with an insightful analysis of today ' s complex relationships between biology, industry, and ethics.

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This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology.

Since the time of domestication more than 10,000 years ago, cattle have played an increasingly crucial role in the development of human civilizations. Progress has been quite remarkable since the turn of the century; the sequencing of the bovine genome in 2009 launched new avenues for furthering our understanding of theoretical and practical aspects of cattle genetics. Covering a vast array of questions, this book reviews major topics from molecular and developmental genetics, disease resistance and immunogenetics to genetic improvement of dairy and beef breeds, addressing all current problems in the field. This second edition includes a new team of authors and completely new chapters on the genetics of fat production, nutrition, feed intake and efficiency, growth and body composition. Fully updated throughout, it provides a valuable resource on cattle genetics for researchers, breeders, veterinarians and postgraduate students.

Medical Virology

Veterinary Virology deals with basic biomedical virology and the clinical discipline of infectious diseases. The book discusses the principles of virology as effecting future developments in the search for preventive and management of infectious diseases in animals, whether singly or as a whole herd or flock. Part I explains the principles of animal virology including the structure, composition, classification, nomenclature, cultivation, and assay of viruses. This part also discusses viral genetics, replication, and evolution (including mutation and genetic engineering). The book also reviews the pathogenesis of viruses, host resistance and susceptibility, as well as the mechanisms of persistent infections and tumor induction. Part II deals with viruses found in domestic animals; this part also explains in detail the properties, replication methods, pathogenesis, immunity, diagnosis, and control of some common viruses. The book discusses some other families of viruses of which no members are yet known as to have caused serious or important diseases in animals. Veterinarians, immunologists, virologists, molecular researchers, students, and academicians in the discipline of virology and cellular biology, as well as livestock owners will find this book helpful.

This Book of Abstracts is the main publication of the 61st Annual Meeting of the European Association for Animal Production (EAAP) held in Heraklion, Crete Island, Greece, on August 23-27 2010. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Also, important problems were discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems. In addition joint sessions on topics interesting several disciplines and species were included in the programme.

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