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Contents	
Books	2-19
Animal and veterinary science	Journals  Beneficial Microbes  Comparative Exercise Physiology  Journal of Insects as Food and Feed  Quality Assurance and Safety of Crops & Foods  World Mycotoxin Journal
Food and health science	
Agribusiness and rural studies	
Agriculture and environment	
	20

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## Integrated approaches to health

A handbook for the evaluation of One Health

edited by: Simon R. Rüegg, Barbara Häsler and Jakob Zinsstag



One Health addresses health challenges arising from the intertwined spheres of humans, animals and ecosystems. This handbook is the product of an interdisciplinary effort to provide science-based guidance for the evaluation of One Health and other integrated approaches to health. It guides the reader through a systems approach and framework to evaluate such approaches in a standardised way. It provides an overview of concepts and metrics from health and life sciences, social sciences, economics, and ecology that are relevant for the evaluation of the processes involved, as well as the characterisation of expected and unexpected outcomes of One Health initiatives. Finally, the handbook provides guidance and practical protocols to help plan and implement evaluations in order to generate new insights and provide meaningful information about the value of One Health.

The handbook is intended for practitioners, researchers, evaluators as well as funders of integrated approaches to health and beyond.



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## Animal farming

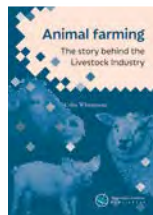
The story behind the livestock industry

author: Colin T. Whittemore



*Animal farming* is a readable, thought-provoking, honest, and unstuffy account of what really happens on Europe's and Britain's animal farms, and how animal farming came to be that way. Stories behind modern farming practices are revealed and concerns are raised over how our farms will look in the future. Fascinating insights and unpalatable questions are presented into the ways that animals are – often wrongly – fed, bred, housed and managed. Learning comes from failures, so the book is more about failures than successes.

The author combines well researched facts with well found experience. He commends and condemns in equal measure; often in unexpected ways. A broad range of subjects is covered in the book. What domestication now means for farm animals. How selective breeding has changed them for better and worse. The mixed blessings of government support and subsidisation. The story of abuse of animals' rights and welfare is dealt with in detail, as are ideas of respect and compassion, and the inadequate ways in which animals are fed. The author describes a broken marketing system for livestock products, and also considers organic farming. Lastly, in the present environment of agricultural upheaval in Europe, how can science and technology take animal farming forward? What are the chances of the wrongs being righted – what will tomorrow's farmed animals be for?



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Also available



## Precision livestock farming applications

Making sense of sensors to support farm management

edited by: Ilan Halachmi



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## Indirect calorimetry

Techniques, computations and applications

edited by: Walter Gerrits and Etienne Labussière



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**NEW**

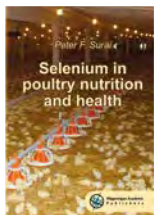
## Selenium in poultry nutrition and health

author: Peter F. Surai

Selenium (Se) is an essential dietary trace element participating in the regulation of various physiological functions in humans, farm animals and poultry through its incorporation into a range of selenoproteins. Low Se content in main feed ingredients is a common problem worldwide and dietary Se supplementation is a current practise in poultry and farm animal nutrition. Recent research clearly proved that sodium selenite, used for the last 40 years as a feed supplement, is not an optimal form of Se. However, use of organic selenium in animal/poultry diets can help meeting Se requirement and maintain high immunocompetence, productive and reproductive performance.

The goal of this book is to provide up to date information about the roles of Se in poultry nutrition and health. A special emphasis is given to the role of selenium as an essential part of the integrated antioxidant system. Se in feed and organic Se are characterised in detail with emphasis to selenomethionine as a storage form of Se in the body. Also specific Se-deficiency related diseases in poultry are described and the importance of Se in growth, development, immunity and reproduction is demonstrated. A link between poultry industry and human health via production of Se-eggs and Se-enriched meat is shown.

This book will be of practical importance to poultry producers, to nutritionists and vets as well as for avian/animal scientists, students of agricultural colleges and universities. It will also be of interest for researchers in areas related to ecology, environmental sciences, evolutionary biology, etc.



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## Precision Dairy Farming 2016

edited by: Claudia Kamphuis and Wilma Steeneveld

The supply of new innovative precision dairy farming technologies is steadily increasing. It aims to help farmers to be more labour efficient and to support them in their daily management decisions. At the same time, since many technologies are developed from an engineering perspective, adoption of these technologies is sometimes limited since knowledge on economic benefits and farmers' needs is often incomplete.

This book covers the current status of precision dairy farming technologies and what farmers expect from them. It also includes insights and future perspectives on managing, analysing, and combining sensor information. Moreover, new innovative ideas that may better fit farmers' needs and expectation are introduced, ranging from technologies or innovations that aim at improved animal health and welfare, to those technologies that result in a more efficient use of feed and improved grazing management.

This book is unique because science and engineering are combined to develop precision dairy farming technologies that are to be applied in practice. The book will serve as a stepping stone for new and innovative ideas within this rapidly growing area within dairy farming.



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## Genomic management of animal genetic diversity

edited by: J.K. Oldenbroek

Recently developed genomic tools, like SNP-genotyping and whole genome sequencing, and their analysis, offer great opportunities for the conservation and utilisation of animal genetic diversity, both among and within breeds. These genomic tools can be used to detect potentially valuable rare alleles and haplotypes. They are important parts of the genetic diversity we need to conserve now for possible utilisation in the future. This book describes the use of genomic technology to define breeds, to measure diversity and to assess important features in the history of breeds affecting the present genetic diversity. The management of genetic diversity with genomic tools is outlined both in vivo: small populations of rare breeds or large populations with small effective population sizes and in vitro: genebanks. Special attention is given to the genomic management of populations of animals with high incidences of genetic defects. This book is intended for MSc and PhD students, scientists working with small populations in animal breeding and in conservation programmes for rare breeds.



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 NEW

## INRA feeding system for ruminants

edited by: INRA

The *INRA Feeding System for Ruminants* has been renewed to better address emerging challenges for animal nutrition: provision of productive responses, product quality, animal health and emissions to the environment, in a larger extent of breeding contexts. The new system is mainly built from meta-analyses of large data bases, and modelling. The dietary supply model accounts for digestive interactions and flows of individual nutrients, so that feed values depend on the final ration. Animal requirements account for variability in metabolic efficiency. Various productive and non-productive animal responses to diets are quantified.

This book presents the whole system for dairy and meat, large and small ruminant production, including specificities for tropical and Mediterranean areas. The first two sections present biological concepts and equations (with their field of application and statistical accuracy) used to predict intake (including at grazing) and nutrient supply (Section 1), animal's requirements and multiple responses to diets (Section 2). They apply to net energy, metabolisable protein and amino acids, water, minerals and vitamins. Section 3 presents the use of concepts and equations in rationing with two purposes: (1) diet calculation for a given performance objective; and (2) prediction of the multiple responses of animal to diet changes. Section 4 displays the tables of feed values, and their prevision. All the equations and concepts are embedded in the fifth version of INRAtion<sup>®</sup> software for practical use.



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## The gestating and lactating sow

edited by: Chantal Farmer

The last book on the lactating sow was published over 15 years ago. This new book brings us up to date in current knowledge on the gestating and lactating sow. It covers new and important topics such as conditioning of gilts for optimal reproductive performance, feeding high fibre diets to gestating sows and providing various fat sources in gestation and lactation. It also describes the several key success factors to group-housing systems in gestation, which is a must due to the current move towards group-housing. The new concept of transition feeding for sows is discussed, as well as the factors involved in mammary development of gilts and sows, both of which are instrumental for maximum colostrum and/or milk yields. The impact of the human-animal interactions on sow welfare and performance is discussed with focus on new handling practices that could be developed to overbalance the negative interactions inherent to pig management systems. Updates on must-have topics, such as amino acid and energy requirements of sows, colostrum and milk yield and composition, and sow health are also provided. The subjects covered in this book will assist animal scientists, nutritionists, veterinarians and swine producers in learning the most recent information on relevant and current topics affecting sow production, and in knowing which areas are in need of further research efforts.



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## Training for equestrian performance

edited by: Jane Williams and David Evans

*Training for equestrian performance* is an essential guide for the modern equestrian competitor who wants to optimise their own and their horse's potential in training and competition, or for the equine sports science student wanting to understand the science of equestrian training. Leading equestrian researchers and performance analysis experts bring together the fundamental scientific principles which underpin competition preparation for the horse and rider. These include exercise physiology, psychology, conformation, biomechanics and feeding for performance. The book explores the principles of training and alternative training methods, and how these principles translate to management of the equine athlete to extend careers and prevent injury occurring. Suggestions for how to successfully develop training strategies and plans matched to short and long term training and competition goals are provided. Developments in performance analysis techniques and equipment for the horse and rider, independently and as a partnership, are reviewed. This enables the reader to select techniques and devise training regimes which can help them achieve their own competitive goals. The book concludes by applying science to the practical requirements of a range of equestrian disciplines, giving practical advice and explanations of how to use science and technology to improve fitness, prevent injury and to achieve competition success. Horse owners, students, veterinarians, coaches and many other participants in equestrian sports will find new knowledge and perspectives to consider. *Training for equestrian performance* will become a must-have training companion for the modern equestrian who wants to leave nothing to chance in their competition preparation.



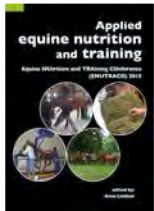
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## Applied equine nutrition and training

### Equine NUtrition and TRaining COnference (ENUTRACO) 2015

edited by: Arno Lindner

This book describes recent developments on equine nutrition and rehabilitation. Experts provide reviews on feeding horses with roughage only and with medicinal plants, as well as insight in the potential importance of monitoring the urine of horses for mycotoxins. Information on the effect of supplementing the diet of horses with dimethylglycine and aleurone complement the nutritive information. Moreover, overviews are given on managing the whole horse instead of the lesioned tissues only and inform on a new tool to monitor the effect of measures taken. In addition, there is very specific information on the effect of training horses included. The book will be of interest to those working in the field of equine sports nutrition, science and medicine.



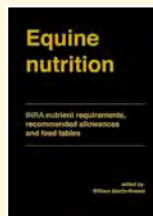
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## Also available

### Equine nutrition

#### INRA nutrient requirements, recommended allowances and feed tables

edited by: William Martin-Rosset



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### The new equine economy in the 21<sup>st</sup> century

edited by: C. Vial and R. Evans



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## Proceedings of the 21<sup>st</sup> European Symposium on Poultry Nutrition

edited by: M. Francesch, D. Torrallardona and J. Brufau

This book brings together 19 full length manuscripts from invited speakers and nearly 300 abstracts from oral and poster communications presented at the 21<sup>st</sup> European Symposium on Poultry Nutrition held in Salou/Vila-seca, Spain in May 2017. The invited papers address aspects of poultry nutrition such as feed intake and thermoregulation, feeding strategies and gastrointestinal health, precision feeding (feeding strategies and nutrient requirements), optimized use of feed ingredients, and other hot topics such as updating P requirements of broilers, mycotoxins and future perspectives of poultry production. The open communication abstracts deal with the latest research on poultry nutrition, including feed raw materials, protein sources and amino acids, feed additives and enzymes, nutrition and gut health, mineral nutrition, among other topics.



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## Fish atlas of the Celtic Sea, North Sea, and Baltic Sea

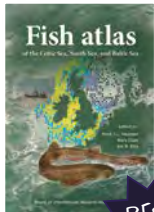
Based on international research-vessel surveys

edited by: Henk J.L. Heessen, Niels Daan and Jim R. Ellis

The atlas presents a unique set of abundance data to describe the spatial, depth, size, and temporal distribution of demersal and pelagic fish species over an extensive marine area, together with accounts of their biology. A large number of pictures, graphs and distribution maps illustrate the text. By largely avoiding – or at least explaining – scientific terms and providing extensive references, the book should be useful for both laymen and scientists.

The quantitative information on some 200 fish taxa is derived from 72,000 stations fished by research vessels during the period 1977-2013. The area covers the northwest European shelf from west of Ireland to the central Baltic Sea and from Brittany to the Shetlands. Although the surveys extend beyond the shelf edge, only taxa reported at least once in waters less than 200 m are included. Typical deep-water species and typical fresh-water species are excluded.

We hope this publication will contribute to gaining a better understanding of the ocean ecosystems.



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## Feed evaluation science

edited by: Paul J. Moughan and Wouter H. Hendriks

Written by a team of international authorities, *Feed evaluation science*, is a must-have for students, researchers, postdoctoral fellows and teachers of animal nutrition, as well as practitioners in the feed industry. The text offers a classical treatment of the basic principles and new developments in feed evaluation for simple-stomached animals with emphasis on pigs and poultry. The chapters follow a logical progression, to provide a coherent in-depth coverage of the key science and technology inherent in the nutrition and feeding of animals. The topics covered are nutrient analysis and characterisation, nutrient-bioavailability, post-absorptive nutrient utilisation, the principles of animal growth and the mathematical modelling of growth. Practical aspects of feed processing, anti-nutritional factors, the use of markers in nutrition studies, predicting bioavailable nutrients and the principles of feed formulation are highlighted in the context of pig, poultry and companion animal nutrition.

This is a classic text on the nutrition of simple-stomached animals, and is intended for those working at the forefront of developments in feed evaluation science.



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## Energy and protein metabolism and nutrition

edited by: Jacek Skomiał and H el ene Lapierre

Development in agricultural sciences, particularly in farm animal sciences, resulted in the increased productivity to meet the demand for high quality and relatively cheap protein sources for human nutrition. In parallel, this increased productivity challenges the adequate supply of nutrients, including protein and energy, needed to cover not only high performances, but also insure animal health and welfare, reproduction and quality of products in a sustainable environment. The precise understanding of the animal biology is crucial for animal health and welfare, sustainable animal production, and health of animal product consumers. This book focuses on combining basic and applied research and its practical applications. To achieve these goals, many important topics are presented and discussed in detail. The most important issues in this book are: physiological aspects of protein and energy metabolism and nutrition; animal health and welfare metabolic related issues; effect of feeds and feed processing on energy and protein digestion and metabolism; methodological aspects of research on protein and energy metabolism; environment protection and enhancement of the quality and health-promoting features of animal products.

This book constitutes a good source of knowledge for those who like to be up to date with the newest trends and findings in energy and protein metabolism in farm animals.



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## Tables of composition and nutritional value of feed materials

**Pigs, poultry, cattle, sheep, goats, rabbits, horses and fish**  
edited by: D. Sauvant, J.-M. Perez and G. Tran

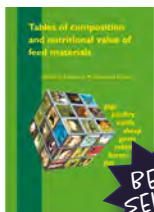
This book is the result of collaborative work between INRA and the Association Française de Zootechnie (AFZ). The tables in this book present the chemical composition and nutritional values of the feed materials fed to the main farm species.

The feed materials included in this publication are used both in the formulation of compound feeds and as straight feedstuffs (concentrates and by-products).

The values of chemical composition were mainly obtained using field data collected by AFZ from laboratories specialising in animal feeding (the data base includes over one million values). The nutritional values result principally from experimental work performed by INRA and its partners.

The data used take into account the evolution in feed materials and nutritional concepts. Important characteristics have been introduced, namely net energy for pigs (growing pigs and sows), amino acid digestibility, mineral availability and starch degradability for ruminants.

In the present context of animal feeding and the new challenges that it faces (product quality and safety, animal health and welfare, environmental issues), this publication provides a reliable scientific reference document for feed manufacturers, veterinarians, extension officers, farmers, lecturers and students.



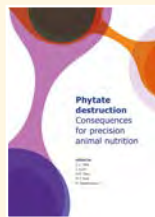
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## Also available

### Phytate destruction – consequences for precision animal nutrition

edited by: C.L. Walk, I. Kühn, H.H. Stein, M.T. Kidd and M. Rodehutscord



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### Parasitology in Veterinary Medicine

authors: Peter Deplazes, Johannes Eckert, Alexander Mathis, Georg von Samson-Himmelsfjerna and Horst Zahner



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## Intestinal health

**Key to maximise growth performance in livestock**  
edited by: Theo Niewold

Livestock production is changing worldwide. Amongst the changes are those instigated by legislation such as restrictions on antibiotics and antibiotic growth promoters, well fare regulations, etc., all forcing livestock producers to adapt to new husbandry, management, nutrition and healthcare techniques. Food safety is an explosive political issue. The expectations and demands of the informed consumer have altered perceptions of risk and brought food safety to the very front and centre of politics. The gastrointestinal tract is essential in the maintenance of health, wellbeing and production in livestock. The above changes impact feed formulation. The industry looks for alternatives to maintain intestinal health and maximise animal performance, whilst complying with increasingly stringent legislation. This requires a good understanding of the physiological processes involved.

In this book, the current knowledge in the major monogastric production species (pigs and chicken) is reviewed by renowned experts in the field. It describes infectious and non-infectious challenges as well as the complex interaction between innate, cellular and humoral immunity and performance. The problems that this complexity poses concerning the identification of important factors for intestinal health are discussed. *Intestinal health* also reviews promising new approaches such as the use and development of validated biomarkers, and the application of omics techniques and systems biology.



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## Game meat hygiene

### Food safety and security

edited by: P. Paulsen, A. Bauer and F.J.M. Smulders

Increased consumers' demand for game meat is driven by various motivations. In order to fulfil this demand for safe, wholesome and nutritious meat, management of wild game and establishment of adequate supply chains are required. Identification and assessment of hazards of biological and non-biological origin help to design and implement effective control measures. This requires cooperation of the stakeholders, of food safety authorities and scientists. Game meat safety extends from the wildlife-human interface to wildlife-livestock interactions, as regards transfer of pathogenic agents or transfer of residues.

Thus, assurance of game meat hygiene is a multidisciplinary task, and involves tackling a variety of safety and quality issues for a number of species under diverse living conditions and modes of harvesting. This is reflected in the contents of this volume, with 19 contributions on free-living or farmed game and on invasive species, namely the warthog in South Africa.

This volume is the third in a series on safety and quality assurance along the game meat chain, following a 'from forest to fork' approach. Like its predecessors, it is targeted at scientists in academia and industry, graduate students as well as to governmental officials in veterinary public health and food safety.



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## Hunting hygiene

authors: Sauli Laaksonen and Peter Paulsen

*Hunting hygiene* is an internationally unparalleled textbook introducing the basics of hunting hygiene. This concept includes the basic biology and ecology of game animals as well as game animal diseases and their causes. An important part of hunting hygiene is the identification and assessment of pathological alterations and the possible risks for humans caused by animal diseases, and how these risks can be diminished. Risk control begins with the practice of environmental and game animal management, animal health and hunting dog health care. Other essential parts of the subject are hunting methods, correct practices in game handling, slaughterhouse hygiene and safe preparation methods of game in the kitchen. *Hunting hygiene* presents the tools to detect and assess diseases in game animals and the universally applicable principles of hygiene during hunting and handling meat from wild game, illustrated by numerous examples.

The content of this textbook is enlivened by unique photographs and Sauli Laaksonen's watercolour illustrations. The authors' exceptional insight into the topic combined with years of collecting material and extensive international collaboration make this book a riveting exploration into the concept of hunting hygiene.

*Hunting hygiene* is a textbook intended for hunters and educational institutes in the field. It is also suitable for biologists, veterinary surgeons, doctors and all readers interested in the diversity of nature. The book focuses on north and central Europe. *Hunting hygiene* is primarily based on the Finnish book *Metsästäjän Terveysoppi* written by Sauli Laaksonen. *Hunting hygiene* meets the international demand that became obvious after the publication of *Metsästäjän Terveysoppi* in 2013.



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## The end of animal life: a start for ethical debate

**Ethical and societal considerations on killing animals**  
edited by: Franck L.B. Meijboom and Elsbeth N. Stassen

Killing animals is common practice, yet it is not morally neutral. The end of animal life is related to many societal and ethical questions and concerns. Questions such as how long should we continue to treat an animal before putting it down? But also the question whether it could be legitimate to kill individual animals for the welfare of the herd or of future generations. The ongoing public and academic discussions on these, and on other well-known questions like those related to the killing of animals for food or for scientific purposes, show that there is no one standard evaluation of animal life. This book is an edited volume that enables the reader to get a grip on that plurality of views with regard to animals. It helps to deal with the many questions related to the end of animal life. The chapters show how the plurality of views on killing animals is related to moral presuppositions by providing a clear overview of the ethical views on end-of-life decisions. Furthermore, the book contains a number of applied studies of the ethical questions related to killing animals in various practices, including small animal practice, wildlife management, fishing and fish farming, animal experimentation and livestock farming. These chapters can help veterinarians, scientists, students, policy makers and many other professionals working with animals to easily get a good overview of the issues at stake, and may contribute to responsible decision-making with regard to the end of animal life.



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## Ecology and Control of Vector-borne diseases

In the past century, many advances were made in the control of vector-borne diseases. Malaria disappeared from the northern hemisphere, diseases such as typhus, Bartonella and yellow fever were seriously reduced in prevalence and in many countries effective methods of disease control contributed to a greatly reduced incidence of such diseases. Most of these advances were beneficial to the industrialized world, whereas underdeveloped countries continued to suffer much as before. Indeed, several diseases such as malaria, Rift Valley fever and African sleeping sickness are still highly prevalent in specific countries. 'New' vector-borne diseases, dengue and West Nile fever, have emerged and are invading previously disease-free regions. The discovery of new drugs and vaccines has made great advances and allows for the effective treatment and control of many diseases. In contrast, vector control has lagged behind in development, even though it is realized that effective vector control would allow for an immediate interruption of the transmission of disease, and aid in disease control and eradication. In the last 20 years new initiatives on vector control have been undertaken, leading to a rapid development of effective and lasting methods of vector control. The development of molecular genetics has provided new insight in vector biology and behaviour, which is being used for developing new strategies of vector control. Advances in geographic information systems allow for precision targeting of interventions. The collective information on new developments in Vector Ecology and Control of Vector-borne Diseases is scattered over numerous periodicals and electronic databases. This book series intends to bring together this information in volumes arranged around selected themes that are currently of interest.

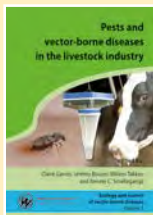
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## Pests and vector-borne diseases in the livestock industry

edited by: Claire Garros, Jérémy Bouyer, Willem Takken and Renate C. Smallegange

How to control economically important vector-borne diseases? What are the best strategies to protect livestock from vector-borne diseases in a changing environment? How to evaluate and assess the acceptability, cost efficiency and cost benefit of the control and surveillance methods? The information in this book will help to answer these questions. It aims at presenting the latest information on vector-borne diseases affecting livestock worldwide, from state-of-the art interventions to the assessment of the impact of these control measures.

This book is a valuable tool for entomologists and all those involved in pest and vector control.



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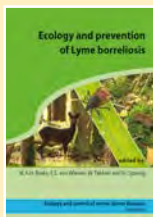
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## Ecology and prevention of Lyme borreliosis

edited by: Marieta A.H. Braks, Sipke E. van Wieren, Willem Takken and Hein Sprong



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1871-9295 – ECVPH Food safety assurance 7

## Chemical hazards in foods of animal origin

edited by: Frans J.M. Smulders, Ivonne M.C.M. Rietjens and Martin Rose

The authorship of this book is comprised of a total of 65 experts of worldwide repute, originating from 13 different countries and representing various scientific disciplines such as human and veterinary medicine, agricultural sciences, (micro)biology, pharmacology/toxicology, nutrition, (food) chemistry and risk assessment science.

In 25 chapters the various chemical hazards – 'avoidable' or 'unavoidable' – and possibly prevailing in major foods of animal origin [muscle foods (including fish), milk and dairy, eggs, honey] are identified and characterised, the public health risks associated with the ingestion of animal food products that may be contaminated with such xenobiotic chemical substances are discussed in detail, and options for risk mitigation are presented.

This volume targets an audience with both an industry and academic background, and particularly those professionals who are (or students who aspire to become) involved in risk management of foods of animal origin.



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## 63<sup>rd</sup> International Congress of Meat Science and Technology

Nurturing locally, growing globally

edited by: Declan Troy, Ciara McDonnell, Laura Hinds and Joseph Kerry

This book contains over 400 offered papers which were presented at the 63<sup>rd</sup> International Congress of Meat Science and Technology, held in Cork, Ireland, from 13-18 August, 2017.

Under the theme of nurturing locally, growing globally, areas covered in the congress included meat sustainability and the role of the of meat science in a challenging global environment, genetics and genomics, the science of meat quality, technological demands in meat processing from an Asian perspective, international best practice in animal welfare, scientific advances underpinning meat safety, emerging technologies in meat processing, meat science and impact, consumer aspects, meat biochemistry, advancements in meat packaging and the congress ended with a session on meat and health, with focus on sustaining healthy protein sources. This year also included a session dedicated to addressing specific hot topics of importance to the industry and meat scientists.

These proceedings reflect the truly global nature of meat research and provide an insight into current research issues for the industry.



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## Insects as food and feed: from production to consumption

edited by: Arnold van Huis and Jeffery K. Tomberlin

Alternative protein sources are urgently required as the available land area is not sufficient to satisfy the growing demand for meat. Insects have a high potential of becoming a new sector in the food and feed industry, mainly because of the many environmental benefits when compared to meat production. This will be outlined in the book, as well as the whole process from rearing to marketing. The rearing involves large scale and small scale production, facility design, the management of diseases, and how to assure that the insects will be of high quality (genetics). The nutrient content of insects will be discussed and how this is influenced by life stage, diet, the environment and processing. Technological processing requires decontamination, preservation, and ensuring microbial safety. The prevention of health risks (e.g. allergies) will be discussed as well as labelling, certification and legislative frameworks. Additional issues are: insect welfare, the creation of an enabling environment, how to deal with consumers, gastronomy and marketing strategies. Examples of production systems will be given both from the tropics (palm weevils, grasshoppers, crickets) and from temperate zones (black soldier flies and house flies as feed and mealworms and crickets as food). Detailed photographs are shown at the beginning of each section and chapter.



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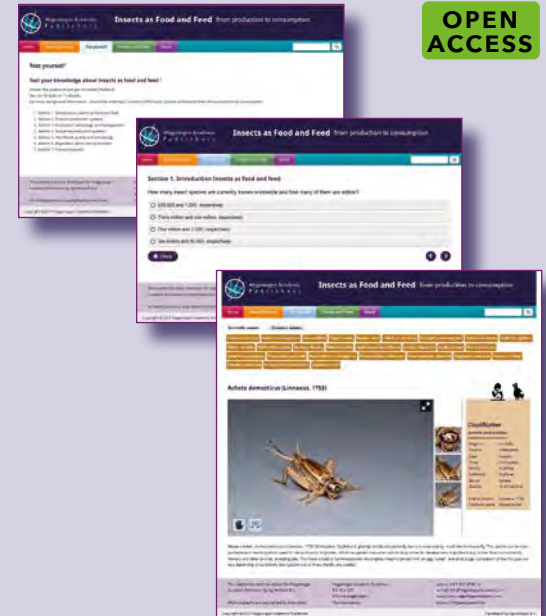
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*Insects as food and feed: from production to consumption* is accompanied by Open Access e-learning. The e-learning materials are located at <https://e-insects.wageningenacademic.com>. These materials include high resolution macro photographs and 360 degrees view photographs of several edible insect species, relevant information on the species that are being shown, questions to test your knowledge on edible insects, and information explaining the technique used to make the photographs.

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## Augmented reality for food marketers and consumers

edited by: Leanne W.S. Loijens

*Augmented reality for food marketers and consumers* starts with an explanation of what augmented reality is and how it works. It lists the technical requirements and gives an overview of popular applications. One of the chapters focusses on augmented reality in retailing and its use in restaurants, and gives examples. Another chapter addresses methods for assessing AR tech in organizations. The book also explains what challenges augmented reality still faces, technical challenges and also ethical and financial challenges. The final chapter looks into the future of augmented reality.



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## Sensory and aroma marketing

edited by: Esther Sendra-Nadal and  
Angel A. Carbonell-Barrachina

This book explains how sensory and aroma marketing is used by food companies to improve the sales of their products at different locations. It starts with an introductory section about the current relevance of this field, and the foundation of how senses can affect consumers' behaviours. Then, it moves into different chapters highlighting the importance of each one of the senses in marketing strategies (smell, sight, sound, taste, and touch). Perhaps for readers the role of smell, sight, smell, and taste are obvious in selling strategies and in bringing positive experiences, memories, and feelings, but the book also provides examples of how touch and sound guide consumer decisions. The final chapter looks into the future. *Sensory and aroma marketing* should be easily understood by university students interested in Food Science and Technology, make sensory marketing reachable and useful at the industry as well as at the academic and research levels. Readers will be able to answer questions which all consumers bear in mind. For example: is it possible to 'manipulate' consumers in choosing a specific food by using a specific aroma or locating the product at a proper height in a supermarket; and is it possible to control how much time a consumer spends in a hypermarket by using a specific music rhythm?



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## Consumer trends and new product opportunities in the food sector

edited by: Klaus G. Grunert

The food sector is changing. Consumers want not only tasty and healthy food products, but products that are sustainable and authentic. At the same time, new developments in farming, food processing, and retailing open up new opportunities in the development of food products. Bridging these challenges and opportunities is a major task for food marketing.

This book traces consumer trends regarding healthiness, sustainability, authenticity, and convenience. It gives an introduction to current developments in farming, in food processing technology, and in retailing. It also explains how segmentation and consumer-led product development can lead to new food products in response to these trends.



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## Neuromarketing in food retailing

edited by: Elena Horská and Jakub Berčík

*Neuromarketing in food retailing* provides the reader with fundamental theoretical and practical neuromarketing issues applied in food retailing. It covers essential terminology, interdisciplinary relations of neuromarketing and neuropsychology, ethical issues, neuromarketing research methods and applications from the sphere of consumer behaviour, visual merchandising in retailing and services. A final chapter is devoted to the future of neuromarketing including new trends in marketing and technologies as well as augmented reality and virtual reality. The book provides the readers (university students, scholars, retailers and other professionals) with tips on how to use neuromarketing techniques to reveal and understand hidden consumer reactions and make conditions for shopping more convenient and effective.



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## Professionals in food chains

edited by: Svenja Springer and Herwig Grimm

Within the public debate surrounding food, people often contend that the key to meeting current challenges is changing consumer behaviour. Professionals and practitioners such as farmers, retailers, veterinarians, or researchers only occupy the limelight during media coverage of so-called 'food scandals'. If we are to better understand and negotiate current and future problems in the food supply chain, it will be essential to pay more attention to the role and position of professionals involved.

*Professionals in food chains* addresses questions as: What are the main ethical challenges for professionals in the food supply chain? Who within this complex field holds responsibility for what? What does it mean for the food-related professions to operate in an atmosphere of immense social tension and high expectations? Which virtues are required to do a 'good' job? In brief: What can be said about the roles, responsibilities, and ethics of professionals across this dynamic field?

This book brings together work by scholars from a wide range of disciplines, addressing a broad spectrum of topics pertaining to professionals in the food supply chain. Topics covered include general issues on professional roles and responsibility, sustainable food supply chains, novel approaches in food production systems, current food politics, the ethics of consumption, veterinary ethics, pedagogical/educational and research ethics, as well as aquacultural, agricultural, animal, and food ethics.



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NEW

## Microbiota in health and disease: from pregnancy to childhood

edited by: Pamela D. Browne, Eric Claassen and Michael D. Cabana

This book offers a state-of-the-art overview of the vital relationship between human microbiota and infant and child health. Renowned clinical-experimental experts in this field discuss the development of microbiota during early life and review the environmental inputs that affect the developing infant's gut microbiota, such as early diet and (postnatal) medical interventions. They further describe the interplay between gut microbiota and functional systems of the body, from the immune system to the central nervous system.

The book discusses a range of infant and childhood diseases that are associated with microbial changes or dysbiosis, such as gastrointestinal disorders, allergic diseases, autoimmune disorders and respiratory disorders. Additionally mechanisms by which microbial dysbiosis may influence behaviour in infants are discussed. Other topics include the use of current tools in molecular microbiology for microbiota-related research and clinical practice. In the management of particular paediatric disorders, the potential of microbial manipulation with pre- and probiotics during infancy and childhood is increasingly being investigated. This book presents the evidence supporting their use in practice and reviews safety aspects.

*Microbiota in health and disease: from pregnancy to childhood* has the ambition to provide the reader with an overview of the most recent and stunning advances in the field of infant and child microbiota and their role in health, disease and prevention. As such, it is an excellent resource for health care professionals, students and researchers in the field of life sciences.



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### Human health handbooks

The books published in the *Human health handbooks* series offer a comprehensive coverage of emerging fields of science and important discoveries in human health. The volumes in this series address multiple topics relating to human health, such as skin, hair, human breast milk, and sleep. The publications are devoted to advancing knowledge about the cross-border study of human health through a combination with human nutrition and diet. Unique features of each chapter in the Handbooks include relevant 'Key facts' and 'Summary points' giving a brief and concise introduction to each topic. Contributors to the volumes comprise of an international set of authors who are experts and specialists in their field, sharing their latest and most important research results. The series of *Human health handbooks* aims to provide doctors, nurses, nutritionists and dieticians, health workers and practitioners, university lecturers, undergraduates and graduates with a valuable source that presents a useful and complete overview of human health in relation to diet and nutrition.

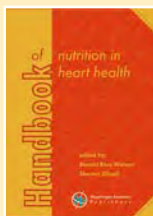
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### Handbook of nutrition in heart health

edited by: Ronald Ross Watson and Sherma Zibadi

Cardiovascular disease (CVD) mortality remains the primary cause of death worldwide, despite the decline in developed countries. CVD includes a variety of heart and vascular conditions: hypertensive heart disease, stroke, and ischemic heart disease. Some risk factors such as age, gender, and family history cannot be changed. Other causes, including diet, tobacco, drugs of abuse, alcohol, and lack of exercise, can be altered. In this book, experts review the validity of various dietary approaches in prevention and treatment of CVD for promotion of heart health. In summary, nutrients, nutraceuticals, macronutrients, and gastrointestinal microbes modified by prebiotics and probiotics play important roles in heart health and disease.

The five sections in the book give an overview of the role of vitamins and minerals, nutrition and nutrition counselling, dietary supplements, herbs and foods, protein and energy, and microbes. A useful part of the chapters in this book are the key facts and summary points.



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### Handbook of nutrition and diet in therapy of bone diseases

edited by: Ronald Ross Watson and Daruka Mahadevan

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### Handbook of nutrition and diet in leukemia and blood disease therapy

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### Handbook of cholesterol

Biology, function and role in health and diseases

edited by: Ronald Ross Watson and Fabien De Meester

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## Food futures: ethics, science and culture

edited by: I. Anna S. Olsson, Sofia M. Araújo and M. Fátima Vieira

Food is at the centre of human existence. We eat every day, not only to satisfy our physical needs but also as part of cultural and social interaction. Food choices and markets shape the agricultural landscape and the cities we live in. Whereas what we choose to eat and feed our family is part of who we are, a growing number of actors compete to influence our food habits, through marketing strategies and nutritional advice. And ethical considerations are coupled with every choice over food – whether related to production, distribution, consumption, food waste, policy in general, marketing or advice.

Given the variety of implications the ‘food problem’ entails, the construction of an inclusive society must redirect the concerns about food in the present to the imagination of future alternatives. The search for innovative solutions calls for multidisciplinary critical enquiry – and utopian thinking will be instrumental in that regard.

This book brings together work by scholars in a wide range of disciplines addressing many different topics related to food futures. Topics covered include food and literature, food waste, food communication, food policy, corporate social responsibility and public procurement in food supply, responsible research and innovation in food production as well as sustainability and animal ethics and welfare.



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## Also available

### Envisioning a future without food waste and food poverty

#### Societal challenges

edited by: Leire Escajedo San-Epifanio and Mertxe De Renobales Scheifler



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### Know your food

#### Food ethics and innovation

edited by: Diana Elena Dumitras, Ionel Mugurel Jitea and Stef Aerts



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NEW

## Diversity and change in food wellbeing

### Cases from Southeast Asia and Nepal

edited by: Anke Niehof, Hom N. Gartaula and Melissa Quetulio-Navarra

This volume presents recent research on food and nutrition in Indonesia, Philippines, Vietnam and Nepal. The overall theme is food wellbeing, which is seen as having two key components: food and nutrition security, and food sovereignty. The cases cover a diversity of contexts, ranging from indigenous communities and rural villages to the urban environment.

The studies highlight the subjective dimensions of food wellbeing, such as values attached to certain foods and emic meanings of food security and nutrition, and show how these may divert from objective assessments of food and nutrition security. Another pervasive theme is the relational dimension of food wellbeing, visible in the importance of social capital for access to food and the role of gender relations in intra-household food distribution. While change is an integral factor in all studies, three deal specifically with the outcomes of interventions aimed at improving food and nutrition security at the local level. It shows how outcomes may be different than expected and how an intervention may have a positive spill-over effect on others than the targeted beneficiaries, in this way contributing to food sovereignty. Together the studies reveal the meanings and feelings behind food data in various contexts.



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### European Institute for Food Law series

The European Institute for Food Law (Est. 04-04-2004; [www.food-law.nl](http://www.food-law.nl)) is a non-profit foundation aiming to advance the level of expertise and knowledge on food law, at national level, European level as well as global level. They publish the European Institute for Food Law Series in cooperation with Wageningen Academic Publishers. Food law is a relatively young functional area of law addressing all legal and regulatory aspects of food, including production, distribution and trade. In the words of the General Food Law; Regulation (EC) 178/2002, food law encompasses 'the laws, regulations and administrative provisions governing food in general, and food safety in particular' covering 'any stage of production, processing and distribution of food, and also of feed produced for, or fed to, food producing animals'. True to the function of legal scholarship in general to serve and advance legal practice, the *European Institute for Food Law Series* presents scholarship that describes, analyses and explains food law in ways that advance academic understanding, are suitable for education, and support practical application.

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### From agricultural to food law

The new scenario

edited by: Vicente Rodríguez Fuentes

The differences between agricultural law and food law are becoming progressively blurred. This is only natural because both intend to control that food products placed in the market are safe and respond to a certain standard of quality. In their present form, both are relatively new legal disciplines, evolving and expanding very rapidly and a great number of new and transcendental regulations (and an increasing number of compulsory private rules) are being enacted to respond to new realities.

One of these new realities is the legal protection of quality in food. Once almost exclusively applied to a limited number of traditional well-known products and now extended to many products covered by designations of origin or geographical indications. Another area is food safety, a major concern of the legislator. Food alerts, recalls and withdrawals have been carefully regulated to guarantee a rapid and efficient reaction, but these legal mechanisms appear to be less well-designed when dealing with the unwanted consequences of unjustified alerts. A third topic is food prices and trading conditions, an area that cannot always be completely left to unregulated market-forces due to the special nature of the product involved.

The above issues are analysed by several experts from different legal backgrounds and countries, a varied approach adequate to the hybrid nature of food law.



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### EU Food Law Handbook

edited by: Bernd van der Meulen

The twenty-first century has witnessed a fundamental reform of food law in the European Union, to the point where modern EU food law has now come of age. This *EU Food Law Handbook* presents the most significant elements of these legal developments with contributions from a highly qualified team of academics and practitioners. Their analysis is based on a shared vision of the structure and content of EU food law. The book takes the perspective of food law embedded within general EU law. It highlights the consequences of this combination and provides insights into both substantive and procedural food law.

Taking the General Food Law as a focal point, this handbook analyses and explains the institutional, substantive and procedural elements of EU food law. Principles are discussed as well as specific rules addressing food as a product, the processes related to food and communication about food to consumers through labelling. These rules define requirements on subjects like market authorisation for food additives, novel foods and genetically modified foods, food hygiene, tracking & tracing, withdrawal & recall. The powers of public authorities to enforce food law and to deal with incidents are outlined. Attention is given to the international context (WTO, Codex Alimentarius) as well as to private standards.

In addition to the systematic analysis, the book includes selected topics such as nutrition and health policy, special foods, food import requirements, food contact materials, intellectual property and animal feed.



The *EU Food Law Handbook* is produced in co-operation with the European Institute for Food Law. It is ideal for education purposes.

©2014 – 692 pages – EUR 77 – USD 109

**textbook**

hardback ISBN 978-90-8686-246-7

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**BEST  
SELLER**

## Epidemiology in public health practice

edited by: A. Haveman-Nies, M. Jansen, J.A.M. van Oers and P. van 't Veer

Over the past decades, epidemiology has made a relevant contribution to public health by identifying health problems and analysing their determinants. Recent developments call for new and applied methods to support the planning, implementation and evaluation of public health policies and programmes. This book presents an integrated overview of such epidemiological methods, to be used within the joined working process of several public health disciplines. It provides relevant theories, concepts and tools, illustrated with practical examples in order to empower epidemiologists in public health.

The first part of this book describes epidemiological history in a nutshell and explains the relationship with the public health domain. It closes with the presentation of a joint work cycle for policy, practice and research: the public health cycle. Part two presents seven steps epidemiologists should follow to strengthen their contribution to the public health cycle: conduct a needs assessment, support priority setting, formulate aims and objectives, construct a logic model, develop an evaluation plan, perform quality control, and analyse processes and outcomes. Part three illustrates the institutional architecture of public health and describes the professional fields of policy and health promotion as knowledge of these major fields facilitates interdisciplinary collaboration in each stage of the public health cycle.

This book is intended for students and epidemiologists in public health practice. It was written by 20 Dutch authors with either longstanding experience or fresh enthusiasm. The editors are all affiliated with Academic Collaborative Centres for Public Health in the Netherlands, which aim to bridge the gap between policy, practice and research.



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## It's a jungle out there – the strange animals of economic organization in agri-food value chains

edited by: Gaetano Martino, Konstantinos Karantininis, Stefano Pascucci, Liesbeth Dries and Jean Marie Codron

This book aims to explore the variety in organizational forms that exists in the European agri-food sector, and to identify an appropriate theoretical framework that includes a set of conceptual instruments to analyse this variety. Moreover, this framework should be helpful in the exploration of the relationship between organizations and the regulatory domain. The book focuses on organizational forms under two perspectives. First, it underlines the variety in organizational forms and their internal complexity. Second, it includes a series of case studies from different theoretical perspectives that highlight diversity within the agri-food sector, spanning from the adoption of standards to producer organizations. The book then proposes a conceptual foundation that can help in the design of applied theoretical frameworks to address the variety and the complexity of the organizational modes in agri-food supply systems.



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## Space and economics

An introduction to regional economics  
edited by: W.J.M. Heijman

The subject area Regional Economics has become topical. This means that in economic analyses the production factor 'space' is of increasing importance. This study book aims to integrate space in the area of General Economics in an analytical way. Models and their applications play a major role in the book's approach.

The subject of regional economics contains two broad fields. The first is the theory of location, including the basic principles of the economic theory of land use, which has a microeconomic character. The second subject is regional economic development, including spatial equilibrium theory, which is mainly macroeconomic in nature. In the book, both fields will be elaborated in detail. Basic principles of economics are included as background information in order to study the more advanced subjects addressed in the book.

Another important feature of the book is its European character which is rather unique. In fact the majority of the applications here are from Europe. Regional statistical data and maps available in Eurostat have been used. The spreadsheet programme Excel is used as a convenient tool for the computation of model results. The description of major applications of Excel is included in the book, which makes it self-contained.



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## Also available

### Rural protest groups and populist political parties

edited by: Dirk Strijker, Gerrit Voerman and Ida Terluin



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### Rural development

#### Knowledge and expertise in governance

authors: Kristof Van Assche and Anna-Katharina Hornidge



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### Sustainability models for a better world

author: Kanayathu C. Koshy

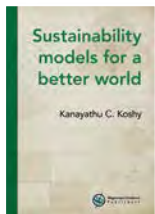
The last two centuries have seen extraordinary technological and economic advances. This growth has come at a cost – that of a rapidly degrading environment. Pollution, resource depletion, and climate change threaten human civilization. The current governance structures do too little too slow. In a planet with finite resources, this is not sustainable. We must act and act now to avert a catastrophe waiting to happen. But where do we start?

*Sustainability models for a better world* gives simple and elegant answers. Illustrative models form the basis of its 55 chapters. Each chapter only 3-4 pages in length, written in newspaper or magazine style language, this book will help to understand sustainability, plan action, implement, monitor progress and continue best practices. A simple approach in five steps will make things happen:

1. create a working model to understand and internalize sustainability;
2. break up big problems into smaller contributory causes and work back for solutions;
3. go for progressive risk reduction and resilience enhancement;
4. monitor change and be mindful of planetary limits; and
5. replicate best practices to promote green growth.

The sustainability paradigm and its pathway, sustainable development, are more than the environment, it involves the economy and society. We need to maintain this balance. The ability to sustain stability seems to define sustainability.

The book is written for a broad audience: students, teachers, universities, civil society, governments and quasi government organizations.



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## Forthcoming

### Ecological economics

authors: C.M. van der Heide, W.J.M. Heijman and J.H.J. Schaminee

A textbook about the nature of economics and the economics of nature. Is economic growth the cause of or the solution for biodiversity loss? Why do we keep drilling for oil and gas when green energy sources are cheaper? And is it possible to protect nature without government intervention? The answer to these and other questions lies in economic knowledge.

But in an age when the boundaries between nature and society are becoming increasingly vague, ecology and economics are still worlds apart. Not only should economists find out more about ecology, ecologists should acquire a better understanding of economic principles and concepts: from Adam Smith's invisible hand to the Gini coefficient and from diminishing marginal utility to the Hedonic Pricing method.

The aim of this book is to provide students with knowledge and an understanding of economic science and to offer them a mindset for tackling the important ecological issues of our time. The book demonstrates that economic theories are sometimes part of an ecological problem but can also offer valuable insights in the search for a solution. The textbook is intended for use on ecology courses at institutes for professional education and on science courses.



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## Also available

**Developmental work research**

A tool for enabling collective agricultural innovation

author: Mutizwa Mukute



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**Coffee certification in East Africa: impact on farms, families and cooperatives**

edited by: Ruerd Ruben and Paul Hoebink



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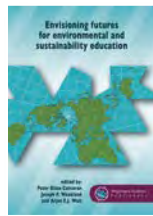
**Envisioning futures for environmental and sustainability education**

edited by: Peter Blaze Corcoran, Joseph P. Weakland and Arjen E.J. Wals

Different factors have contributed to what is known as the Contemporary Food Paradox. To express this more graphically, let us say that more than a third of the food in the world is wasted while almost 800 million people suffer extreme malnutrition. Now the Millennium Goals' deadline expired, we must set the targets for the Sustainable Development Goals for the next decades. Many national and international organizations point out the imperative need to give an adequate reply to this paradox.

Food waste has important economic and environmental implications and, in addition, there is an undeniable ethical and social justice aspect. Beyond the figures of hunger and malnutrition, mothers, the unweaned, and small children die prematurely and young people experience a deficient physical and mental development. All these people, members of our human family, oblige us to recognize their inherent dignity as human beings and their equal and inalienable rights.

In this work, academics from fifteen countries and different disciplines discuss proposals and strategies in order to respond to the desire for a world without waste or food poverty.



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## New, revised edition

**Breeding crops with resistance to diseases and pests**

authors: R.E. Niks, J.E. Parlevliet, P. Lindhout and Y. Bai

*Breeding crops with resistance to diseases and pests* is the most up-to-date text book on this topic targeted towards students in Plant Sciences. This book describes the most basic elements in plant pathogen interactions and defence strategies in plants. The scientific background is explained as far as it is relevant for breeders to make sensible choices in designing and running their breeding work.

A major part of the book presents the options plant breeders have to consider such as what strategy to follow, what aspects to evaluate or measure, and whether it is best to apply mixtures of pathotypes or to test pathotypes one by one.

Professionals, notably in the field of Plant Breeding, may also use it as a manual for disease resistance breeding. The book should be of interest to anyone interested in plant defence strategies and the enhancement of resistance in modern cultivars. In order to enliven and illustrate the text, background reading, interesting examples and exceptions, concrete cases of application and further reading are given. Supplementary reading is readily distinguished from the main text by a different typography, so it is clear what material is most relevant and what is meant as examples supporting the main story lines. Most sections are followed by exercises so that students can test whether they understood the material that was presented.

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Forthcoming

NEW

## Greenhouse horticulture

Technology for optimal crop production

authors: Cecilia Stanghellini, Bert Van 't Ooster and Ep Heuvelink

This book provides an integrated approach to crop growth and development and the technical aspects of greenhouse cultivation and climate management. It combines an analysis of the relationship between crop production and ambient climate with an explanation of the processes that determine the climate in a protected environment. With the ability to modify the environment comes the need for growers to strike a balance between the costs and benefits of technology. This book outlines the methods and gives several examples of how to make 'optimal' choices about technology.

Sustainable management of shoot and root environment is discussed, as well as the pros and cons of vertical farming. The processes addressed in this book, like crop growth, energy balance and mass exchange, apply to any kind of greenhouse. Therefore, in spite of the word 'technology', this is not a book about high-tech greenhouses only.

*Greenhouse horticulture* is an easy-to-read textbook for all those interested in protected cultivation, from university students and teachers to professional advisers in the field and managers of horticultural companies.



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## Towards a new regulatory framework for GM crops in the European Union

Scientific, ethical, social and legal issues and the challenges ahead

edited by: Leire Escajedo San-Epifanio

Aware of the significant potential of nascent biotechnologies, the European Economic Community (the predecessor to the European Union) was one of the first regions in the world to develop a regulatory framework for them. Back in the 1980s, the objective of Community member countries was to strengthen the standards of consensus and collaboration, and of environmental and health safety, as well as to promote an industrial sector of enormous potential. In spite of all effort, towards the end of the 1990s it was a widely accepted fact that a number of political and economic factors were blocking the development of biotechnology in Europe. From that crisis emerged what in some aspects is probably the most comprehensive and rigorous body of regulations for biotechnology in the world today. However, the very high technical level of those regulations did not prevent a new crisis which EU institutions aim to solve with a new regulatory framework. Thus, since March 2015, the way towards the third regulatory framework for Biotechnology in the EU has been open. Will this third regulatory framework finally offer sufficient guarantees to allow a healthy and sustainable development of biotechnology in the EU? What do we need to do so that 'third time is lucky'? In this work, a group of European and non-European experts, from different disciplines and approaches, discuss the past and the present, as well as the various possible futures, of Genetically Modified Crops in the EU.



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## Using Nature's Shuttle

The making of the first genetically modified plants and the people who did it

author: Judith M. Heimann

NEW

*Using Nature's Shuttle* is a suspenseful, by turns comic or tragic, but always lively account of how young, idealistic scientists - often the first of their families to go to a university - engaged in basic research that led them to make history in the new fields of plant microbiology and molecular biology.

The book passes on the true story of what young scientists in a public Belgian university learned about a million-year-old single cell soil bacterium. This bacterium was able to genetically modify certain plants to produce food that only that bacterium strain could eat. These scientists and their colleagues and rivals figured out how to use that knowledge to genetically modify a variety of plants to make them safer and healthier for man, beast, and the environment. Their genetic modifications made plants cheaper and easier for farmers to grow as well as capable of improving the health and welfare of people in the Third World.

The author, Judith M. Heimann, a former diplomat and writer of three published non-fiction books and contributor to two TV documentaries based on them, tells this multi-sided story chiefly through the information she gathered by conducting intensive interviews of each of more than two dozen of the scientists involved. She sees this book as presenting the actual science, as opposed to the current rash of anti-science on this subject, and as encouraging a new generation of young people to opt for careers in STEM (Science Technology Engineering Mathematics subjects).



© 2018 – ± 224 pages – EUR 23.50 – USD 33

**monograph**

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## Beneficial Microbes

Editor-in-chief: Koen Venema

ISSN 1876-2883 (paper)  
ISSN 1876-2891 (online)  
[www.BeneficialMicrobes.org](http://www.BeneficialMicrobes.org)



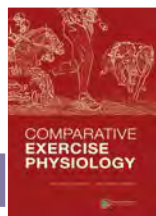
2017 Journal Impact Factor: 2.310  
2017 CiteScore: 2.63

*Beneficial Microbes* is a peer-reviewed scientific journal focussed on the promotion of the science of microbes beneficial to the health and wellbeing of man and animal. The journal contains original research papers and critical reviews in all areas dealing with beneficial microbes in both the small and large intestine. The journal takes a multidisciplinary approach and focuses on a broad spectrum of issues, including safety aspects of pro- & prebiotics, regulatory aspects, mechanisms of action, health benefits for the host, optimal production processes, screening methods, (meta)genomics, proteomics and metabolomics, host and bacterial physiology, application, and role in health and disease in man and animal.

## Comparative Exercise Physiology

Editors-in-chief: David Marlin and  
Kenneth H. McKeever

ISSN 1755-2540 (paper)  
ISSN 1755-2559 (online)  
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*Comparative Exercise Physiology* is the only international peer-reviewed scientific journal specifically dealing with the latest research in exercise physiology across all animal species, including humans. The major objective of the journal is to use this comparative approach to better understand the physiological, nutritional, and biochemical parameters that determine levels of performance and athletic achievement. The result is a unique forum for new information that serves as a resource for all who want to understand the physiological challenges with exercise.

## Quality Assurance and Safety of Crops & Foods

Editor-in-chief: Richard Conrill

ISSN 1757-837X (online)  
[www.WageningenAcademic.com/QAS](http://www.WageningenAcademic.com/QAS)



2017 Journal Impact Factor: 0.558  
2017 CiteScore: 0.72

*Quality Assurance and Safety of Crops & Foods* is an international peer-reviewed journal publishing research and review papers associated with the quality and safety of crops. It targets plant-based primary raw materials, their harvesting, storage and conversion to human foods. There is a strong focus on the development and application of new analytical tools and their potential for quality assessment, assurance, control and safety. The scope includes issues of risk assessment, traceability, authenticity, food security and socio-economic impacts. Manuscripts presenting novel data and information that are likely to significantly contribute to scientific knowledge in areas of food quality and safety will be considered.

## Journal of Insects as Food and Feed

Editor-in-chief: Arnold van Huis

ISSN: 2352-4588 (online)  
[www.InsectsasFoodandFeed.com](http://www.InsectsasFoodandFeed.com)



2017 CiteScore: 2.25

The *Journal of Insects as Food and Feed* covers the whole chain of edible insects or rearing to marketing edible insect products, including the development of sustainable technology. At the end of the edible insect chain, marketing issues, consumer acceptance, regulation and legislation pose new research challenges. Food safety and legislation are intimately related. Consumer attitude is strongly dependent on the perceived safety. Microbial safety, toxicity due to chemical contaminants, and allergies are important issues in safety of insects as food and feed.

## World Mycotoxin Journal

Editor-in-chief: Franz Berthiller

ISSN 1875-0710 (paper)  
ISSN 1875-0796 (online)  
[www.WorldMycotoxinJournal.org](http://www.WorldMycotoxinJournal.org)



2017 Journal Impact Factor: 1.727  
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*World Mycotoxin Journal* focusses on the promotion of the science of mycotoxins. The journal contains original research papers and critical reviews in all areas dealing with mycotoxins. The journal takes a multidisciplinary approach, and it focuses on a broad spectrum of issues, including toxicology, risk assessment, occurrence, modelling and prediction of toxin formation, genomics, molecular biology for control of mycotoxigenic fungi, pre- and post-harvest prevention and control, sampling, analytical methodology and quality assurance, food technology, economics and regulatory issues. *World Mycotoxin Journal* is intended to serve the needs of researchers and professionals from the scientific community and industry, as well as of policy makers and regulators.



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