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LIFE SCIENCES

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Facts about fats
A review of the feeding value of fats and oils in feeds for swine and poultry
edited by: J. Doppenberg and P.J. Van der Aar

Fats and oils are more than ‘just’ energy sources for animal feeds. The fatty acids as part of triglycerides or in Fatty Acid products differ in chemical composition and physical characteristics. The omega-3 and specifically the LC-PUFA omega-3 fatty acids can be considered as functional nutrients. Via the feeding of different fats and differing fat additions body composition and animal products can be modified.

The main use of fats and oils in the feed industry is however increasing the energy content of the feed economically. Therefore knowledge about the digestibility of the fat for each animal category, the metabolisable energy content and the efficiency with which this energy can be used for different production goals are of paramount importance for evaluating the fat source of choice. This book has summarized the presently available knowledge from the scientific literature and concluded with a model to estimate the energy content in practice.

Indirect calorimetry
Techniques, computations and applications
edited by: Walter Gerrits and Etienne Labussière

The use of indirect calorimetry to measure the heat production of men and animals has increased rapidly since the pioneering work of Lavoisier. Measurement of the consumption of oxygen and production of carbon dioxide are the basis for the measurement of heat production. Today, applications of indirect calorimetry are available in many species. Combining these measurements with accurate climate control, recording of physical activity and feed intake, use of stable isotopes and sophisticated modelling techniques allow scientists to make progress in various research areas.

This book provides a scientific basis for indirect calorimetry, dealing with smart ways to design calorimeters, gas measurements and computational techniques to deal with complex data. Novel techniques allow the connection between short term changes in energy expenditure, protein turnover and substrate oxidation, e.g. using stable isotopes. Various applications of indirect calorimetry are addressed, including heat production measurements in growing animals, hatching eggs, companion animals and in animals housed under heat stress conditions. In addition, various ways of measuring methane emissions are discussed.

This book is intended for scientists working or interested in calorimetry or metabolism research, or people designing calorimetry systems, opening their eyes for applications they did not yet think of.

©2017 – 64 pages
monograph
www.WageningenAcademic.com/factsaboutfats
The INRA feeding system for ruminants
edited by: Daniel Sauvant, Luc Delaby and Pierre Nozière

The INRA feeding system for ruminants has been renewed to better address emerging challenges for animal nutrition: prevision of productive responses, product quality, animal health and emissions to the environment, in a larger extent of breeding contexts. The new system is 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 parts present biological concepts and equations (with their field of application and statistical accuracy) used to predict intake (including at grazing) and nutrient supply (Part 1), animal’s requirements and multiple responses to diets (Part 2). They apply to net energy, metabolisable protein and amino acids, water, minerals and vitamins. Part 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. Part 4 displays the tables of feed values, and their prevision. All the equations and concepts are embedded in the INR@tion software for practical use.

©2018 – ± 300 pages – EUR 59 – USD 83
monograph
www.WageningenAcademic.com/inraredbook
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.

textbook
www.WageningenAcademic.com/equestrian

Equine nutrition
INRA nutrient requirements, recommended allowances and feed tables
edited by: William Martin-Rosset

Equine nutrition gives insight in updated feed evaluation systems based on net energy, global amount of amino acids, and feed intake. These systems allow accurate comparison of the nutritive value of feeds, the formulation of well-balanced rations to achieve production or utilisation goals, and the prediction of equine performance based on the quantity and quality of the ration.

Equine nutrition provides an update of the nutrient requirements for all categories of equine. Tables of recommended allowances based on long term feeding trials carried out at INRA are proposed. These recommendations and the simple approach to formulation of rations based on the use of a maximum amount of forage have been successfully tested in the fields. The importance of grass intake during summer for the different categories of equines is evaluated and grazing management is described. Feed allowances and feeding practices are proposed in respect of health and behaviour of the equine and of the preservation of environment.

The feed tables list 169 roughages and 71 concentrates feeds. Data have been derived from digestion trials on horses, carried out at INRA and measurements of voluntary intake for most of the forages. This book also deals with several distinct pedagogic tools dedicated to end-users: ‘equineration’, a guide to ‘body condition scoring in horse’ and ‘Equine Rami’ for horse grazing and farming management.

This book is an essential source for scientists, teachers and their students, advisers and professionals.

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edited-collection
www.WageningenAcademic.com/equinenutrition

Applied equine nutrition and training
Equine NUtrition and TRAining COnference (ENUTRACO) 2015
edited by: Arno Lindner

proceedings

The new equine economy in the 21st century
edited by: C. Vial and R. Evans

edited-collection
www.WageningenAcademic.com/eaap136
**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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edited-collection
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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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edited-collection
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**Proceedings of the 21st 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 21st 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.

©2017 – 308 pages – EUR 49 – USD 67
conference-proceedings
www.WageningenAcademic.com/espn2017
Forthcoming

**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.

©2018 - ± 400 pages – EUR 85 – USD 120
*textbook*
www.WageningenAcademic.com/fes

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**Energy and protein metabolism and nutrition**
*edited by: Jacek Skomiał and Hélène 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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**Phytate destruction – consequences for precision animal nutrition**
*edited by: C.L. Walk, I. Kühn, H.H. Stein, M.T. Kidd and M. Rodehutscord*

Incorporating research chapters from academic authors around the world, this book focuses on the most recent scientific advances in understanding phytate; both IP₆ and its esters. It examines phytate degradation patterns in the gastrointestinal tract, and investigates the relevance of gut microbiome and endogenous phosphatases on phytate breakdown, as well as regulation and functions of inositol diphosphates IP₇, IP₈ and IP₉. It also identifies recommendations for formulating for minerals and amino acids in the presence of phytate, including the effects of phytase on protein bioavailability, and the impact of digestible Ca and P in both swine and poultry. This leading science and research is coupled with real-world pragmatism, including a focus on what industry stakeholders are currently doing to counter dietary phytate, and an overview of the role of nutrition in respect of bone health, meat quality, welfare, and antibiotic free production. As such, the content is relevant for scientists, nutritionists and producers alike.

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Parasitology in Veterinary Medicine
authors: Peter Deplazes, Johannes Eckert, Alexander Mathis, Georg von Samson-Himmelstjerna and Horst Zahner

Parasitology for basic and advanced studies and veterinary practice.

The classical textbook Parasitology in Veterinary Medicine, now available in an updated English version, is not only ideal for exam preparation but is also of relevance in veterinary practice.
- The book allows easy and structured learning by providing a clear outline of the subject matter and practical chapter summaries.
- All relevant protozoa, helminths and arthropods that cause parasitic diseases or act as vectors of pathogens are presented.
- Overviews of treatment and control measures are given per animal species and enables rapid contextual orientation. Zoonotic and food-borne parasites are also discussed.
- Memorable life cycles of parasites and excellent colour photographs of the clinical symptoms and pathological changes illustrate the contents.
- Diagnostic panels allow for rapid differentiation of the developmental stages under the microscope.
- In the glossary numerous technical terms are defined and explained etymologically.

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

©2015 - 276 pages - EUR 89 - USD 127
www.WageningenAcademic.com/intestinalhealth

Hunting hygiene
authors: Sauli Laaksonen and Peter Paulsen

©2015 - 304 pages - EUR 94 - USD 140
textbook
www.WageningenAcademic.com/hunting

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.
This book contains over 400 offered papers which were presented at the 63rd 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.

Animals and us
50 years and more of applied ethology
edited by: Jennifer Brown, Yolande Seddon and Michael Appleby

Can we improve the health and welfare of livestock while increasing production? Can we maintain animal biodiversity in the face of increasing demands for resources and expanding agriculture? Can we use animal behaviour to reduce the carbon footprint of livestock production? Applied ethology is a young, multidisciplinary science that is relevant to these and other pressing issues.

This book celebrates the history and science of applied ethology, and commemorates the 50th anniversary of the International Society for Applied Ethology. Through themes such as human-animal interaction, play behaviour, cognition, evolutionary theory and the relationship between applied ethology and animal welfare science, the book examines why ethologists are so passionate about their work, and why this field remains more exciting now than ever. Chapter authors include world renowned ethologists such as Don Broom, Ian Duncan, Ruth Newberry, and many others. The history of the ISAE and development of the field is presented with engaging profiles of founding members and pioneers in the field. New methods and emerging issues in behaviour research are discussed, along with the development of ethology around the globe. The book concludes with thoughts on future directions for applied ethology in addressing global issues of animal production, welfare, biodiversity, and the role of the ISAE.

The book provides an exciting overview of this emerging field of science, and is intended for academics, students and anyone who takes pleasure in observing animals.

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.
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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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).

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textbook
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Free online e-module
Insects as food and feed: from production to consumption

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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e-learning environment
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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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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 focuses 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.

©2017 – 104 pages – EUR 39 – USD 56

augmented reality for food marketers and consumers
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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.

©2017 – ± 250 pages – EUR 59 – USD 83

consumer trends and new product opportunities in the food sector
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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.

©2017 – 170 pages – EUR 49 – USD 67

neuromarketing in food retailing
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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.

Quality and innovation in food chains
Lessons and insights from Africa
edited by: Jos Bijman and Verena Bitzer

Improving product quality has become essential for food chains in developing countries. Quality and innovation in food chains: lessons from Africa presents a set of case studies on food quality improvement and innovation in African food chains, with cases from South Africa, Ethiopia, Benin, Uganda and Senegal.

The book is based on interdisciplinary collaborative research projects. An interdisciplinary approach leads to better insights in the opportunities and constraints for quality improvement, and helps public and private actors in seizing the opportunities and removing the constraints.

This publication shows how a co-innovation perspective can be developed and applied. Co-innovation entails the combination of technical, organisational and institutional changes, the involvement of various chain actors, and the introduction of complementary innovations at different levels of the food chain. Quality and innovation in food chains: lessons from Africa is an essential read for anyone involved in studying, supporting and implementing quality improvements and innovations in food chains.

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©2014 - 192 pages - EUR 54 - USD 75

©2017 - 344 pages - EUR 120 - USD 171
©2016 - 178 pages - EUR 45 - USD 61
©2014 - 187 pages - EUR 45 - USD 61
Coffee certification in East Africa: impact on farms, families and cooperatives
edited by: Ruerd Ruben and Paul Hoebink

Certification of coffee producers is frequently suggested as a promising strategy for improving the position of smallholder farmers in the market. After the launch of the first Fairtrade label in 1988, several other standards have been promoted either by voluntary agencies (Utz-certified) or by private coffee companies. Each coffee label relies on different strategies for enhancing sustainable production and responsible trade.

Coffee certification in East Africa is of a rather recent nature but has been rapidly expanding, representing currently 26 percent of the world’s sustainable certified coffee supply. Marketing channels, cooperative organisation and household structures show notable differences between Kenya, Uganda and Ethiopia. Empirical studies on the effects of standards for smallholders are scarce.

This book intends to deepen our understanding on the role and functions of coffee certification regimes, based on three innovative approaches: (1) longitudinal field survey data capturing changes in coffee farming systems and effects on household welfare; (2) in-depth interviews and behavioural experiments regarding risk attitudes, trust and investments at cooperative level; and (3) detailed discourse analyses regarding gender roles and female bargaining power within coffee households. The chapters included in this book provide new and original evidence about the impact of coffee certification based on large-scale field surveys and in-depth interviews.

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.
It's a jungle out there – the strange animals of economic organization in agri-food value chains
edited by: Liesbeth K.E. Dries, Konstantinos Karantininis, Gaetano Martino, Jean Marie Codron and Stefano Pascucci

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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Developmental work research
A tool for enabling collective agricultural innovation
author: Mutizwa Mukute

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The great diversity
Trajectories of Asian development
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Rural protest groups and populist political parties
edited by: Dirk Strijker, Gerrit Voerman and Ida Terluin

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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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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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conference-proceedings

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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textbook
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Envisioning futures for environmental and sustainability education
edited by: Peter Blaze Corcoran, Joseph P. Weakland and Arjen E.J. Wals

This edited collection invites educational practitioners and theorists to speculate on – and craft visions for – the future of environmental and sustainability education. It explores what educational methods and practices might exist on the horizon, waiting for discovery and implementation. A global array of authors imagines alternative futures for the field and attempts to rethink environmental and sustainability education institutionally, intellectually, and pedagogically. These thought leaders chart how emerging modes of critical speculation might function as a means to remap and redesign the future of environmental and sustainability education today.

Previous volumes within this United Nations Decade of Education for Sustainable Development series have responded to the complexity of environmental education in our contemporary moment with concepts such as social learning, intergenerational learning, and transformative leadership for sustainable futures. Envisioning futures for environmental and sustainability education builds on this earlier work – as well as the work of others. It seeks to foster modes of intellectual engagement with ecological futures in the Anthropocene; to develop resilient, adaptable pedagogies as a hedge against future ecological uncertainties; and to spark discussion concerning how futures thinking can generate theoretical and applied innovations within the field.
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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Breeding crops with resistance to diseases and pests
authors: R.E. Niks, J.E. Parlevliet, P. Lindhout and Y. Bai

textbook
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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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2212-375X
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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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.
Many diseases, nutrients, and foods affect bone structure and bone function, and are critical for human health and happiness. Osteoporosis is the most common bone metabolic disorder in humans. Its incidence is related to poor nutrition, altered hormonal status, ageing, diminished physical activity, impaired health status and harmful pharmacotherapy.

Vitamins, especially vitamin D, and calcium are historically recognized as important for bone health, whereas this book also shows that there is evidence for an association between vitamin D, calcium, bone mineral density and colorectal cancer. In addition, calcium supplements may increase the risk for cardiovascular events.

In regular food patterns, milk, vegetables, herbs, fruit and omega-3 may be profitable for bone health. Eating disorders also influence bone. For example, obesity is known to promote bone disease. This book discusses the multiple mechanisms by which obesity may affect bone mass and the effect of diet-induced maternal obesity on fetal bone development, as well as the different nutritional factors that can affect adolescent bone health. In addition, anorexia nervosa treatments that may help prevent loss of bone mass are reviewed. These treatments should not only be geared towards females but also towards males.
Beneficial Microbes is a peer-reviewed scientific journal focused 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 pre- & probiotics, 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.

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.

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.

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.

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.
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