Electronic resources for libraries

- e-book collections
  - Our e-book collections constitute an essential resource for institutions with faculties or departments in agriculture, animal and veterinary science, food science, environmental and plant science. The collections include monographs, handbooks and proceedings.
  - e-book package 2000-2013
    - The full back book consists of 220 titles.
  - e-book package 2014-present
    - From listing all new publications from copyright years 2014-present. This collection is available in an advance online version and will be updated in a main version.
- e-book subject collections
  - Complete dedicated collections for the specific subject area of your interest.

visit our online content platform www.WageningenAcademic.com

Wageningen Academic Publishers

is a recognised publisher of books and journals in the domain of life sciences. We aim to deliver cutting edge research from international experts in their field.

Our new 2016 catalogue gives an overview of new and relevant titles as well as bestsellers in our subject areas. In addition, in 2015 Wageningen Academic Publishers launched its new website and content platform. www.WageningenAcademic.com. All our online resources are now available on this new platform for both individuals (scholars, researchers, students or others) and institutions (academic, research or corporate libraries).

Visit our online content platform www.WageningenAcademic.com

Key benefits (e-book collections):
- One off purchase, no additional fees.
- Perusal access rights.
- Multiple concurrent users as standard.
- Documents in PDF format.
- No DRM, users can download to their own device.
- Use in course materials allowed.
- COUNTER compliant usage statistics.
- Support for single sign-on systems (e.g. Shibboleth).
- Long-term archival and preservation agreements with CLOCKSS.

flexible purchase options
- Besides the standard purchasing model, Wageningen Academic Publishers allows you to choose the collection that fits your needs and budget. Use our pick and choose model to create your custom selection of titles tailored to your needs.
- Our e-book and e-journals are offered as very attractive price conditions. We invite you to request a FREE Trial Access for your Library.
- For more information about prices, book lists, license terms and to organise a free trial, please email Mr. Ruud Kimenai: sales@wageningenacademic.com

Spain, Portugal
Trinidad López
C/ Lluís Cistella, 3 – 08133
28800 Boadilla del Monte, Madrid, Spain
T: +34 913244457, 34 5749486 (mobile)
trln@eiaes.es

India
Penny Marcello
Via Bata, 12
35121 Padova, Italy
T: +39 49 3806671
F: +39 49 3876579

India, Sri Lanka & Bangladesh (book)
Sunit Mitra
Maya Publishers Pvt Ltd.
4831, Parwana Bhawan (3rd Floor)
24, Ansari Road, Daryaganj
New Delhi – 110 002, India
T: +91 11 64117237, +91 11 64599145 (direct)
F: +91 11 22348289
sunitmaya@gmail.com

India [journals]
Harip Singh Gill
Aeirn Information Services (AIS)
GGI / 70 & Vikas Pur
New Delhi – 110 018, India
T: +91 11 4709798, +91 11 9801549914 (mobile)
gilli@aeirn.com
amritinfo.services@gmail.com

Pakistan
Tahir Lodhi
 Publishers’ Representatives
14-42, H.C.S. Lahore
Lahore 53700, Pakistan
T: +92 42 5437947
F: +92 42 5437948
tahirlodhi@gmail.com

Middle East, North Africa, Greece and Turkey
Avicenna Partnership Ltd.
P.O. Box 501
Witney, Oxfordshire OX28 9JL, United Kingdom
T: +44 8702 244457
F: +44 1387 247375
bill.kennedy@itmsgroup.com
T: +44 7771 887843
cber_de@yuco.com

Africa and Carribean (books)
Kalvin van Hasselt
15 Hilda
Cromer Northfield NR27 0HY, United Kingdom
T: +44 1623 532560
lahain@freeuk.com

Representatives

Distributors

---

Wageningen Academic Publishers

is a recognised publisher of books and journals in the domain of life sciences. We aim to deliver cutting edge research from international experts in their field.

Our new 2016 catalogue gives an overview of new and relevant titles as well as bestsellers in our subject areas. In addition, in 2015 Wageningen Academic Publishers launched its new website and content platform. www.WageningenAcademic.com. All our online resources are now available on this new platform for both individuals (scholars, researchers, students or others) and institutions (academic, research or corporate libraries).

Visit our online content platform www.WageningenAcademic.com

Key benefits (e-book collections):
- One off purchase, no additional fees.
- Perusal access rights.
- Multiple concurrent users as standard.
- Documents in PDF format.
- No DRM, users can download to their own device.
- Use in course materials allowed.
- COUNTER compliant usage statistics.
- Support for single sign-on systems (e.g. Shibboleth).
- Long-term archival and preservation agreements with CLOCKSS.

flexible purchase options
- Besides the standard purchasing model, Wageningen Academic Publishers allows you to choose the collection that fits your needs and budget. Use our pick and choose model to create your custom selection of titles tailored to your needs.
- Our e-book and e-journals are offered as very attractive price conditions. We invite you to request a FREE Trial Access for your Library.
- For more information about prices, book lists, license terms and to organise a free trial, please email Mr. Ruud Kimenai: sales@wageningenacademic.com

Spain, Portugal
Trinidad López
C/ Lluís Cistella, 3 – 08133
28800 Boadilla del Monte, Madrid, Spain
T: +34 913244457, 34 5749486 (mobile)
tln@eiaes.es

India
Penny Marcello
Via Bata, 12
35121 Padova, Italy
T: +39 49 3806671
F: +39 49 3876579

India, Sri Lanka & Bangladesh (book)
Sunit Mitra
Maya Publishers Pvt Ltd.
4831, Parwana Bhawan (3rd Floor)
24, Ansari Road, Daryaganj
New Delhi – 110 002, India
T: +91 11 64117237, +91 11 64599145 (direct)
F: +91 11 22348289
sunitmaya@gmail.com

India [journals]
Harip Singh Gill
Aeirn Information Services (AIS)
GGI / 70 & Vikas Pur
New Delhi – 110 018, India
T: +91 11 4709798, +91 11 9801549914 (mobile)
gilli@aeirn.com
amritinfo.services@gmail.com

Pakistan
Tahir Lodhi
 Publishers’ Representatives
14-42, H.C.S. Lahore
Lahore 53700, Pakistan
T: +92 42 5437947
F: +92 42 5437948
tahirlodhi@gmail.com

Middle East, North Africa, Greece and Turkey
Avicenna Partnership Ltd.
P.O. Box 501
Witney, Oxfordshire OX28 9JL, United Kingdom
T: +44 8702 244457
F: +44 1387 247375
bill.kennedy@itmsgroup.com
T: +44 7771 887843
cber_de@yuco.com

Africa and Carribean (books)
Kalvin van Hasselt
15 Hilda
Cromer Northfield NR27 0HY, United Kingdom
T: +44 1623 532560
lahain@freeuk.com

Representatives

Distributors

---
How to order

**Individual customers** can order our books through their local bookstore or directly from Wageningen Academic Publishers. 

**Book sellers** can contact us by phone or email.

Prices mentioned in the catalogue are exclusive of local tax or VAT. We provide free shipping from our Dutch warehouse. Prices may be changed without warning. Dollar prices are given for US or Canadian customers only.

**Lecturers**

Several publications have been especially written or edited for use as course material. Other publications may be suitable for course use as well. We are open to consider requests of inspection copies for intended course adoption. Please send an email with your personal details, the book title, and the course information to Mr. Ruud Kimenai: sales@WageningenAcademic.com. Inspection copies will be sent at our discretion.

Authors

If you are thinking of writing or editing a book, or looking to publish your conference proceedings, we are interested in meeting with you. Our experienced and enthusiastic staff will guide you through the publishing process and will help to make your book a success. For further information, please contact Jacobs@WageningenAcademic.com.

**Open Access**

We offer the option of Open Access publishing for books. “Your Choice for Open Access” means that immediately upon publication your book will be made completely Open Access on our website. This will give you the opportunity to share your book with anyone who has an interest in the work, resulting in increased usage and a greater impact worldwide. This model allows readers to download, copy and distribute the Open Access work without being required to purchase it.

For further information, please refer to the website: www.WageningenAcademic.com/OpenAccess.

Conference organisers

OASES (Online Academic Submission and Evaluation System) is especially designed to make submission and processing of conference abstracts and papers significantly more efficient and effective. Conference material can be monitored and managed fairly easy. In addition, overviews and reports of your conference material are just one click away. OASES output can result in a printed and/or electronic proceedings or abstract book.

For more information, take a look at the website: www.WageningenAcademic.com/OASES.

Wageningen Academic Publishers
Sales department
P.O. Box 220
6700 AE Wageningen
The Netherlands

T: +31 317 47 65 14
F: +31 317 45 34 17

www.WageningenAcademic.com
sales@WageningenAcademic.com
The textbook *Parasitology in Veterinary Medicine* is based on *Lehrbuch der Parasitologie für die Tiermedizin* (3rd ed.), published in 2013 by Enke, Germany. Wageningen Academic Publishers presents a revised edition in English, suited both for basic and advanced studies and as reference book for the veterinary practice. Although focused on the European situation, the book also deals with important parasitic diseases occurring in other regions.

The main part is organized by **parasite groups** (protozoa, helminths, arthropoda, etc.). It provides information on the parasites' biology, epidemiology, immunology, pathogenesis, clinical signs, diagnosis, therapy and control. Summaries allow for a quick overview.

Another part is arranged according to **animal species** (cattle, sheep and goats, pigs, horses, dogs and cats, rabbits, poultry, bees). It contains tables listing the parasites of the organ systems and showing antiparasitic drugs. Furthermore, practical instructions on the control of parasitic diseases are given.

Further chapters deal with general parasitology, zoonoses, parasites in food, diagnostic procedures, and essentials of therapy and control of parasitoses. A detailed glossary with etymological notes is intended for a better understanding of parasitological terms. The book contains numerous tables and is illustrated with 421 figures, including many instructive drawings of parasite life cycles.

© 2016 – ± 650 pages  
*Textbook*  
www.WageningenAcademic.com/parasitology

---

Killing animals is common practice, yet it is not normal. 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 killing it? But also the question whether it could be legitimate to kill individual animals for the welfare of the herd or 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 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 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 on 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 wildlife management, fishing and fish farming, animal experimentation and livestock farming. These chapters can help veterinarians, scientists, policy makers and many other professionals working with animals to easily get a good overview of the issues at stake and contribute to responsible decisions with regard to the end of animal life.

© 2016 – ± 320 pages  
*Edited volume*  
www.WageningenAcademic.com/animallife

---

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.

© 2015 – ± 250 pages – EUR 79 – USD 112  
*Edited volume*  
www.WageningenAcademic.com/calorimetry
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.

© 2015 – 572 pages – EUR 75 – USD 119
Edited volume
A4-size, full colour
www.WageningenAcademic.com/fishatlas

Precision livestock farming applications
Making sense of sensors to support farm management
edited by: Ilan Halachmi

Precision Livestock Farming (PLF) technology is a reality. PLF is a combination of developing animal sensing (sensors) tools and decision-making process at the farm level. It also has the potential to support animal feed suppliers, human-food retailers and other players along the supply chain to make better choices. The current challenge for PLF is the integration of the technology in the majority of the farms and not only to the pioniering farms.

This book consist of full-length peer-reviewed papers combined with ‘questions and answers’ sections. It is the result of a joint session hosted by the European Association of Animal Production and brings together research focusing on real-time interpretation of the combination of sensor development, industry, animal genetics, animal nutrition, and animal health.

Unique of this ‘cross-disciplinary’ approach is that ‘animal-focused’ scientists, engirs, companies as well as farmers’ organizations have interacted and combined their strengths and views. Precision livestock farming applications – Making sense of sensors to support farm management provides an update on the state of the art of PLF in interaction with the other scientific and applicative expertise. It is of interest for researchers, students, professionals, farmers, and livestock industry concerned with livestock production management.

© 2015 – 328 pages – EUR 82 – USD 119
Edited volume
www.WageningenAcademic.com/plfa

Farm animal proteomics 2014
Proceedings of the 5th Management Committee Meeting and 4th Meeting of Working Groups 1, 2 & 3 of COST Action FA 1002
edited by: André de Almeida, Fabrizio CeciLiani, David Eckersall, Ingrid Miller, Jenny Renaut, Paola Roncada and Romana Turk

Proteomics is the large-scale study of the proteome, i.e. a set of proteins being expressed in a certain fluid, tissue, organ or organism. The value of this advanced technology is being recognised in farm animal and veterinary sciences from ‘farm to fork’. The potential of proteomics is unequivocal in holding a significant promise in applications such as vaccine and drug development, physiology, toxicology, animal product quality and food safety. Proteomics has been growing steadily during the last 3-4 years and, as time goes by, proteomics-based studies are more and more common, not just to scientists but to the general public as well, unravelling the full potential of this innovative technology.

This book reflects the will of a group of multi-disciplinary scientists that merge innovation with excellence of research and to whom the dissemination of knowledge and discovery through cooperation is a key point. It is of interest to scientists at the early stages of their careers as well as to researchers well established in the field and to whom proteomics may be the necessary next step towards more in-depth research activities. By providing a collection of diverse scientific interests, Farm Animal Proteomics 2014 demonstrates the vitality of the area and the importance it holds to animal and food research, to science, industry, government agencies, the consumer and ultimately the society as a whole.

© 2014 – 290 pages – EUR 58 – USD 81
Proceedings
Trends in game meat hygiene
From forest to fork
edited by: P. Paulsen, A. Bauer and F.J.M. Smulders

Game meat, previously often considered as an 'exotic' food, or being relevant only in remote regions, is becoming increasingly popular. In order to provide sufficient quantities of nutritious, wholesome and safe game meat, a number of measures have to be implemented along the food chain—from the forest/field or fenced area where the animals are harvested, to the point of consumption. These involve monitoring and control of diseases of game animals transmissible to man, technology and hygiene of game meat processing and specifics of products manufactured from game meat.

This book combines 30 contributions of various experts in the field, addressing four main topics: i.e. 'hygiene and management of microbial contamination in fresh meat from game', 'zoonoses and epidemiology', 'risk assessment and quality assurance along the game meat chain' and 'quality issues in game meat products'.

The focus on Europe is expanded by presenting specifics of the game meat chain in African and Asian regions, with a view to provide information on 'bushmeat' consumed by the indigenous population.

Similar to the first volume in this series, this volume follows a 'from forest to fork' approach and is targeted at scientists in academia and industry, graduate students as well as governmental officials in veterinary public health and food safety.

© 2014 – 400 pages – EUR 85 – USD 120
Edited volume

Livestock housing
Modern management to ensure optimal health and welfare of farm animals
edited by: Andres Aland and Thomas Banhazi

Appropriate housing that promotes excellent health and high welfare for different livestock species is an essential aspect of sustainable animal production. The appropriate design of livestock buildings is a fast changing and ever improving professional endeavour. This book is set out to review the 'current best practice management' in relation to all key design elements of livestock buildings. It is important to manage these buildings correctly to generate environmental conditions that will enhance the health and welfare of livestock, the health of farm workers and people living near farming operations.

Livestock housing is written for all those who are involved in managing the health and welfare conditions of housed livestock on commercial farms, including farm workers, animal scientists, veterinarians, agricultural engirs and of course students. Contributions have been solicited from highly respected specialists from around the world. All key areas of housing management are reviewed, including feeding, watering, ventilation and waste management systems. Furthermore, issues such as the control of emissions, role of bedding, maintenance of hygiene, the management of thermal and aerial environment as well as the use of modern technological tools in the service of livestock management are discussed. This book provides a unique forum for leading international experts to convey up-to-date information to professionals involved in modern animal production.

© 2013 – 496 pages – EUR 84 – USD 125
Edited volume
www.WageningenAcademic.com/livestockhousing

The new equine economy in the 21st century
edited by: Céline Vial and Rhys Evans

From the time they became domesticated, horses have fulfilled roles imposed by human societies. Changing economies, societies and technologies have transformed the predominant roles held by horses in human life. They are now overwhelmingly employed in improving the quality of human life. Across Europe the status of the horse is evolving as ridership grows, and these changes create new economic opportunities for equine and rural enterprises.

The 20 chapters focus on new or developing sectors of the equine economy through sections devoted to impact studies, economic opportunities, socio-economic challenges, social economy, governance issues, sustainable development, the case of horse meat and national reports about the horse in the national economies. The topics range from equine tourism, alternative medicine for competition horses, and the use of social media, through to what may be the most complete guide to the scientific production of horse meat to be published so far.

Each chapter provides a glimpse of where the equine economy may go in the 21st century, based upon the research of experts in their field. No one can predict the future, but the authors give us insight into some of the cutting edge trends which are shaping the nature of the equine world and producing the new equine economy of the 21st century.

© 2016 – ± 250 pages
Edited volume
www.WageningenAcademic.com/eaap136
Consumer attitudes to food quality products
Emphasis on Southern Europe
edited by: Marija Klopcic, Abele Kuipers and Jean-François Hocquette

This book presents an analysis of the dairy and associated sector developments in Eastern Europe and China. The transition in cattle husbandry in Eastern Europe, resulting in enormous structural changes, but not in an increased production volume, is different from emerging countries, like China, where traditional small scale farming goes together with the remodelling or start of mega farms. Capacity building by means of cooperation appears to be hindered by historical experience.

Farm development paths were studied in more depth in Poland, Lithuania and Slovenia using detailed farmer surveys. Farmers’ strategies, availability of resources, and opportunities and threats were analysed, and interactive group trainings in strategic management were part of the analysis. The results are presented here. Although farmers showed similar wishes concerning farm development, the local environment and policies determines the degree of achievement. Farm fragmentation, the high percentage of rented land and availability of suitable labour are major constraints. Future EU policies are a concern but new technologies are embraced.

This book is a must for those interested in the transition in Eastern Europe. It is indispensable to consultants, marketers, companies, farm leaders and government officials in agriculture.

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 Terveysoppu written by Sauli Laaksonen in 2013.
NorFor is a semi-mechanistic feed evaluation system for cattle, which is used by advisors in Denmark, Iceland, Norway and Sweden. This book describes in detail the system and it covers five main sections. The first is concerned with information on feed characteristics, feed analysis and feed digestion methods. The second section describes the digestion and metabolism in the gastrointestinal tract and the supply and requirement of energy and metabolizable amino acids. The third section considers the prediction of feed intake and physical structure of the diet. The fourth section focuses on model evaluation and the final section provides information on the IT solutions and feed ration formulation by a non-linear economical optimization procedure. This book will be of significant interest to researchers, students and advisors of cattle nutrition and feed evaluation.

© 2011 – 180 pages – EUR 70 – USD 98
Edited volume
www.WageningenAcademic.com/eaap130

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.

© 2015 – 452 pages – EUR 95 – USD 142
Edited volume
www.WageningenAcademic.com/sowlactation

Feed efficiency in swine has been prepared as a comprehensive treatise on the current state of our understanding of this topic which is so important to the pork industry. Each chapter is written by international authorities who understand both the science and application of their topic area. The book provides detailed insight into the many factors affecting feed efficiency, ranging from diet processing to herd health, from nutrition to physiology and from day-to-day barn management to the adoption of advanced technologies. The authors explain such practical aspects as the challenge of interpreting feed efficiency information obtained on farm or the role of liquid feeding. The authors also delve into more scientific topics such as amino acid or energy metabolism or animal physiology. This book is written for people who have a technical interest in pork production, including nutritionists, geneticists, farm management specialists, veterinarians, other academics and, of course, pork producers.

© 2012 – 280 pages – EUR 92 – USD 132
Edited volume
www.WageningenAcademic.com/feedeff
Voluntary feed intake in pigs
edited by: David Torrallardona and Eugeni Roura

Understanding voluntary feed intake of pigs enables the precise formulation of pig feeds, ensuring the ingestion of sufficient but not excessive amounts of nutrients to optimise performance. This reference textbook, based on scientific results covers all aspects of feed intake in pigs. Different physiological factors involved in feed intake regulation, ranging from the sensorial evaluation of feeds, to the hormonal and metabolic regulation of feed intake and diet selection in pigs are discussed. The book also deals with aspects such as genetic background of the animals, feeder design, feed manufacturing technology and the use of models to predict feed intake.

This book is intended for academics, researchers, students and industry professionals involved in the field of pig nutrition and pig production.

© 2009 - 368 pages - EUR 75 - USD 107
Edited volume
www.WageningenAcademic.com/feedintake

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.

© 2015 - 448 pages - EUR 99 - USD 145
Edited volume
full colour
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.

© 2015 - 696 pages - EUR 94 - USD 139
Textbook
www.WageningenAcademic.com/equinenutrition
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.

Edited volume
www.WageningenAcademic.com/ENUTRACO2015

Forages should be the basis of all diets in horse feeding. Therefore it is of major importance to determine which parameters will influence their quality. Changes on chemical composition along the vegetative cycle, nutrient losses during harvesting, preservation and storage are factors that could have an effect on nutritive value, as well on digestibility and palatability.

A specific grazing and ingesting behaviour, linked to plant preferences and the selection of feeding sites will have an impact on biodiversity. This will determine the options on plant species and varieties and further management of pastures for horses.

This book highlights the role of forages and grazing in horse nutrition and also gathers information about related topics, such as the contribution of local breeds for the sustainability and development of rural areas, their impact on landscape and relationships with environmental preservation.

This book is the 6th volume in a scientific series conceived through the European Workshop on Equine Nutrition (EWEN) which falls under the umbrella of the Horse Commission of the European Federation of Animal Science (EAAP). All these materials provide an interesting basis for further discussion, not only in specialized forums, but also for those involved in horse production.

© 2012 – 512 pages – EUR 90 – USD 129
Edited volume
www.WageningenAcademic.com/EAAP132

As world population increases, demand for food and particularly animal products is expected to grow substantially. Because of limited area for expansion of animal agriculture and growing consumer concern for the environmental impact of animal production, gains in animal efficiency will have to be part of the solution.

This book addresses key issues of how energy and protein are utilized and interact in farm animals from the molecular to the whole animal and even to the herd or group level of organization. It contains state-of-the-art research and reviews on several topics of nutrient utilization and metabolism from top scientists worldwide. Key issues addressed include energy/protein interactions, methodology such as in vitro and in vivo techniques, regulation including pre-natal programming and endocrine regulation, modeling and systems biology (including a tribute to the late Professor R. Lee Baldwin of the University of California, Davis, a leader in the field), products and health of animals, tissue metabolism, and environmental sustainability in agriculture.

This book is a valuable resource for researchers, students, policy makers, producers and industry professionals believing that a better understanding of metabolism and nutrition of farm animals is part of the solution.

© 2013 – 536 pages – EUR 115 – USD 163
Edited volume
www.WageningenAcademic.com/EAAP134
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 database 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.

© 2004 – 304 pages – EUR 64 – USD 90
Edited volume
www.WageningenAcademic.com/tables

How do you define the quality of life of a farmed animal? This timely book addresses the complex and often controversial issues surrounding the assessment and improvement of farm animal welfare.

Based on a large, multi-disciplinary EU funded research project called Welfare Quality, it discusses the relevance of science based welfare assessments and the importance of establishing a fruitful dialogue between science and society. An outline is given of the development of a workable welfare assessment system for cattle, pigs and chickens as well as practical ways of improving the animals’ quality of life.

This book synthesises the huge body of work carried out by the largest ever international network of scientists and stakeholders in Welfare Quality. It describes some of the obstacles encountered and their solution and why particular paths were chosen. It also clearly sets out what still does to be done and presents selected strategies and technologies (automation, proxy indicators, targeting of risk factors, etc.) designed to ensure the continued improvement of welfare and its assessment.

The book provides a valuable source of knowledge on farm animal welfare for social and animal scientists, students, teachers, policy makers, lobby groups and the animal industry.

© 2013 – 232 pages – EUR 54 – USD 81
Edited volume
www.WageningenAcademic.com/welfarequality

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.

Edited volume
www.WageningenAcademic.com/intestinalhealth

© 2004 – 304 pages – EUR 64 – USD 90
Edited volume
www.WageningenAcademic.com/tables
The ethics of consumption
The citizen, the market, and the law
edited by: Helena Röcklinsberg and Per Sandin

We are all consumers. What we consume, how, and how much, has consequences of great moral importance for humans, animals, and the environment. Great challenges lie ahead as we are facing population growth and climate change and reduced availability of fossil fuels.

It is often argued that key to meeting those challenges is changing consumption patterns among individual as well as institutions, for instance through reducing meat consumption, switching to organic or fair trade products, boycotting or ‘buycotting’ certain products, or consuming less overall. There is considerable disagreement regarding how to bring this about, whose responsibility it is, and even whether it is desirable. Is it a question of political initiatives, producer responsibility, the virtues and vices of individual consumers in the developed world, or something else?

Many of these issues pose profound intellectual challenges at the intersection of ethics, political philosophy, economics, and several other fields. This publication brings together contributions from scholars in numerous disciplines, including philosophy, law, economics, sociology and animal welfare, who explore the theme of ‘the ethics of consumption’ from different angles.

Climate change and sustainable development
Ethical perspectives on land use and food production
edited by: Thomas Potthast and Simon Meisch

Climate change is a major framing condition for sustainable development of agriculture and food. Global food production is a major contributor to global greenhouse gas emissions and at the same time it is among the sectors worst affected by climate change.

This book brings together a multidisciplinary group of authors exploring the ethical dimensions of climate change and food. Conceptual clarifications provide a necessary basis for putting sustainable development into practice. Adaptation and mitigation demand altering both agricultural and consumption practices. Intensive vs. extensive production is reassessed with regard to animal welfare, efficiency and environmental implications. Property rights play an ever-increasing role, as do shifting land-use practices, agro-energy, biotechnology, food policy to green consumerism. And, last but not least, tools are suggested for teaching agricultural and food ethics.

Notwithstanding the plurality of ethical analyses and their outcome, it becomes apparent that governance of agri-food is faced by new ds and new approaches of bringing in the value dimension much more explicitly. This book is intended to serve as a stimulating collection for using this information for advanced strategies of vector-borne diseases.

Vector-borne diseases continue to be one of the most important determinants affecting human and animal health. Large numbers of people suffer from diseases like malaria, dengue, filariasis and leishmaniasis, especially in the tropics. Whereas these diseases were eradicated from the temperate climate zones, in recent years the rising incidence of emerging vector-borne diseases such as bluetongue, West Nile Virus, Lyme disease, tick-borne encephalitis and the recent outbreaks of chikungunya and dengue in southern Europe provide evidence that these diseases are resilient and can disperse to other regions and continents where before they were not present or relevant.

Many tools for the management of vector-borne diseases are currently under pressure because of increasing drug and insecticide resistance, as well as the realization of biological variation of parasites and vectors and their ecosystems. At the same time, progress in our understanding of genetics, immunology, population biology and epidemiology allow for a better understanding of parasite-vector interactions. Here the state-of-the-art of these interactions is being reviewed, and means for using this information for advanced strategies of vector-borne disease control are proposed. Ecology of parasite-vector interactions aims to provide a rapid overview of recent developments in the field of parasite-vector interactions and how this can be used for more effective and sustainable disease control.
The series Food Safety Assurance and Veterinary Public Health focusses on all topics considered by the European College of Veterinary Public Health (ECVPH) – a specialty college operating under the aegis of the European Board of Veterinary Specialization (EBVS) – to pertain to this veterinary discipline. The following specific aims have been stated by ECVPH in their constitution as being associated with the VPH field:

a) the quality of animal health care and welfare by making available specialized knowledge and skills in the subspecialities of population medicine and food science to the benefit of animals,
b) the quality of veterinary practice through contacts of general practitioners with registered specialists,
c) the structure of animal health care through enhancing the application of formal risk assessment procedures, quantitative problem analysis methods, systems of monitoring and surveillance at population level, food safety and process quality management systems,
d) the knowledge and perception of veterinarians, livestock owners, food processing industries and the general public,
e) consumer protection with regard to prevention and control of foodborne hazards and food hygiene procedures,

Many risk management plans as currently implemented by the food industry, appear to be primarily designed to address bacteriological concerns. Hence, these often fail to function when public health risks associated with biological agents such as viruses and prions are to be addressed. Similarly, veterinary education in food hygiene mainly focuses on bacterial agents transferred by domestic animal species via meat and milk and the products manufactured therefrom. Additionally, training rarely includes the dangers associated with other (non-animal based) food ingredients as processed in ready-to-eat meals. It thus appears that food safety professionals – employed by industry or serving as governmental officials commissioned to inspect and audit food manufacturing enterprises – would benefit from being updated on the public health risks associated with foodborne viruses and prions. This book, the sixth in the series Food Safety Assurance and Veterinary Public Health, provides this update.

This volume – authored by recognised experts – is targeted at animal and food scientists, students in (veterinary) public health, public health officials and risk managers active in the food industry.

© 2013 – 376 pages – EUR 97 – USD 145
Edited volume
www.WageningenAcademic.com/safety6
Envisioning a future without food waste and food poverty
Societal challenges
edited by: Leire Escajedo San-Epifanio and Mertxe De Renobales Scheifler

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 deficit 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.

Proceedings
www.WageningenAcademic.com/envisioning

Sustainable food planning: evolving theory and practice
edited by: André Viljoen and Johannes S.C. Wiskerke

Half the world’s population is now urbanised and cities are assuming a larger role in debates about the security and sustainability of the global food system. Hence, planning for sustainable food production and consumption is becoming an increasingly important issue for planners, policymakers, designers, farmers, suppliers, activists, business and scientists alike. The rapid growth of the food planning movement owes much to the unique multi-functional character of food systems. In the wider contexts of global climate change, resource depletion, a burgeoning world population, competing food production systems and diet-related public health concerns, new paradigms for urban and regional planning capable of supporting sustainable and equitable food systems are urgently needed. This book addresses this urgent need. By working at a range of scales and with a variety of practical and theoretical models, this book reviews and elaborates definitions of sustainable food systems, and begins to define ways of achieving them. Four different themes have been defined as entry-points into the discussion of ‘sustainable food planning’. These are (1) urban food governance, (2) integrating health, environment and society, (3) urban agriculture (4) planning and design.

© 2011 – 600 pages – EUR 98 – USD 141
Edited volume
www.WageningenAcademic.com/foodplanning

Food quality management
Technological and managerial principles and practices
authors: Pieternel A. Luning and Willem J. Marcelis

© 2009 – 426 pages – EUR 88 – USD 126
Textbook
www.WageningenAcademic.com/fqm

NEW

Best

seller
Quality and risk management in agri-food chains
edited by: Brigitte Petersen, Manfred Nüssel and Martin Hamer

‘An apple a day keeps the doctor away’. While it may be true that a balanced diet is a prerequisite for good health, how good is what we eat and drink every day? And is it actually possible to fulfil every customer desire with the vast array of foodstuffs on offer? BSE, dioxin in eggs, EHEC sprouts: in the light of repeated food safety crises, the issue of quality assurance as well as customer-oriented quality management has become of prime importance for the agri-food industry.

This sector features highly complex value-added chains, which means that quality deficiencies or contaminations can quickly lead to far-reaching problems with serious consequences for consumers and businesses.

What can be done to reduce this vulnerability to crises? The only solution is to establish systematic methods of quality management which will facilitate the establishment and protection of high standards across companies. This book will show which methods are available and how they can reasonably be used.

The authors present an easy-to-read guide which not only includes the most important legal provisions, standards and accreditation and certification procedures, but also develops practical quality assurance strategies and shows how they can be implemented within the agri-food industry.

Industrial, medical and environmental applications of microorganisms
Current status and trends
edited by: Antonio Méndez-Vilas

Industrial, medical and environmental applications of microorganisms offers an excellent opportunity to learn about new insights, methods, techniques and advances in applied microbiology. It is useful not only for those traditionally involved in this research area but for everyone that does to keep up with this diverse discipline.

The articles are written by researchers from around the world and focus on seven themes:
- Environmental microbiology
- Agriculture, soil and forest microbiology
- Food microbiology
- Industrial microbiology
- Medical microbiology
- Biotechnologically relevant enzymes and proteins
- Methods and techniques – education

This book contains a compilation of papers presented at the V International Conference on Environmental Industrial and Applied Microbiology (BioMicroWorld2013), held in Madrid, Spain, in October 2013.

© 2014 – 698 pages – EUR 99 – USD 143
Proceedings
www.WageningenAcademic.com/microorganisms

The food economy
Global issues and challenges
edited by: Frank Bunte and Hans Dagevos

The food economy is increasingly shaped by such new issues as sustainability, safety and quality standards, consumer health, and industry concentration. Cultural and ethical arguments gain momentum when aligned with issues such as economic welfare and stakeholder interests. The food economy grows ever more global and encompasses more elusive elements like trust, integrity, transparency, corporate social responsibility and creating emotional bonds with customers. The food economy is inextricably interrelated with globalisation, changes in consumer demand for food and energy, the ICT revolution, sustainability issues, and shifts in the relationship between private companies and public regulators.

The Food Economy explores a variety of trends and topics from the broad perspective that their evolution is interdependent with all kinds of counter currents and opposite notions: scarcity goes together with abundance, public and private initiatives co-evolve, slow food is connected with fast food, global brands and local products exist simultaneously. The Food Economy devotes chapters to existing and emerging issues and challenges of the expanding food economy. The Food Economy is relevant to academics, students, policymakers and consumers who are interested in recent developments in the food system and their implications for the food policy and research agendas in the years to come.

© 2009 – 192 pages – EUR 49 – USD 68
Edited volume
www.WageningenAcademic.com/foodeconomy
Know your food
Food ethics and innovation
edited by: Diana Elena Dumitras, Ionel Mugurel Jitea and Stef Aerts

Food production and consumption is no longer a traditional activity. Every day we make choices that influence not only our health, but also that of other living beings, and our planet. Our food cultures are changing rapidly. Do we still know our food? And if not, is that a bad thing?

This book presents the state of the art in agriculture and food ethics. It considers a wide range of ethics and innovation topics in agriculture, aquaculture, markets, consumption and food culture. Its multi-disciplinary analysis by the many authors helps to understand our current global challenges. At the same time it opens a wide range of new possibilities for future debate, research and reflection towards a sustainable world.

The book will appeal to anyone interested in agriculture, animal and food ethics. To students and people looking for a quick overview it offers a wide range of issues. Experienced readers will find a deepened analysis and new themes and perspectives adding to the existing body of knowledge.

Proceedings

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.

© 2014 – 192 pages – EUR 54 – USD 75
Proceedings
www.WageningenAcademic.com/eifl-10
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. 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. These rules define requirements on subjects like market authorisation for food additives, novel foods and genetically modified foods, food hygiene, animal feed, food contact materials, intellectual property and topics such as nutrition and health policy, special foods, food import 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.
The edited volumes published in the Hunan 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. 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.

Forthcoming books in this series

**Handbook of nutrition and diet in therapy of bone diseases**
edited by: Ronald Ross Watson and Daruka Mahadevan
© 2016 – ± 600 pages – prepublication price EUR 140 – USD 199

**Handbook of nutrition and diet in leukemia and blood disease therapy**
edited by: Ronald Ross Watson and Daruka Mahadevan
© 2016 – ± 600 pages – prepublication price EUR 140 – USD 199

The combination of growing populations moving into large cities in high risk zones increase the risk of natural disasters with a substantial public health consequence. A high population density and rapid air travel increase the spread and effects of plagues and diseases. People in countries with limited resources are more vulnerable to death and other consequences of disasters. This requires global rather than national preparedness and response strategies. Public health organisations, government and non-government organisations can take a leadership role and provide training, organisation and research knowledge to improve responses to such disasters. This book is the first holistic public health approach in relation to natural disasters. It fills the gap to have a one-stop-shopping synopsis of key ideas associated with mediation of public health natural disasters. It is unique in focusing on ‘lessons learned’ rather than ‘what to do’. Published research relating to general responses by public health agencies to disasters is scientifically evaluated. Various types of disasters are reviewed: flooding, diseases, earthquakes, volcanoes, and drought. Long term ds, prevention and individual preparation are taken into account. The information can be used to prepare and mitigate effects of disasters.

The summary points at the start of each chapter will help the reader to use this book as reference book and for educational purpose.

Edited volume
www.WageningenAcademic.com/hhh10
Handbook of eggs in human function
edited by: Ronald Ross Watson and Fabien De Meester

Eggs have been used as key part of the human diet for millennia. They contain a great variety of nutrients and material to sustain life and growth. The role of the egg as natural source of vitamins, proteins, fats, and other nutrients, continues to develop. Some nutrients have a controversy in benefits and risks. This controversy is the subject of several chapters in this book.

Eggs have been used for decades by pharmaceutical companies as vehicles to grow viruses for vaccines. Currently, eggs are being developed to make antibodies for human use, so-called designer eggs. Eggs can also be used as vehicle to transport vitamins and minerals to humans via nutrient supplemented laying hens. These benefits are subject to commercial expansion, as well as being an active research area.

This book, with summary points for each chapter, helps you to understand the role of eggs (including designer eggs) in general nutrition, health promotion and disease. It is aimed at health scientists, nutritionists, dieticians, and food industry groups.

© 2015 – 672 pages – EUR 155 – USD 230
Edited volume
www.WageningenAcademic.com/hhh09

Handbook of dietary and nutritional aspects of bottle feeding
edited by: Victor R. Preedy, Ronald Ross Watson and Sherma Zibadi

Newborn babies are usually fed via the breast which ensures optimal development and emotional mother-child bonding. However, in some circumstances breast feeding may be either inadequate or impractical. Historically, deficiencies in the provision of breast milk were addressed by wet-nurse feeding but this was superseded by the introduction of artificial milk feeds, i.e. formula or bottle feeds.

This handbook covers formula feeds in the most comprehensive way. Each contribution starts with convenient summary points. Six parts give information about historical and international aspects (South American, African and Chinese perspectives), composition, microbiological and chemical contaminants, allergy and immunology, effects on physical development and metabolic responses, and effects on psychological and neurodevelopment.

The Handbook of dietary and nutritional aspects of bottle feeding is essential reading material for nutritionists, dieticians, paediatricians, midwives, pharmacologists, health care professionals, general practitioners and those interested in babies health in general.

Edited volume
www.WageningenAcademic.com/hhh08

Handbook of diet and nutrition in the menstrual cycle, periconception and fertility

www.WageningenAcademic.com/hhh07

Handbook of cheese in health: production, nutrition and medical sciences
edited by: Victor R. Preedy, Ronald Ross Watson and Vinood B. Patel

© 2013 – 880 pages – EUR 185 – USD 272
www.WageningenAcademic.com/hhh06

Handbook of dietary and nutritional aspects of human breast milk
edited by: Sherma Zibadi, Ronald Ross Watson and Victor R. Preedy

www.WageningenAcademic.com/hhh05
Over the past decades, epidemiology has made a relevant contribution to public health by identifying health problems and analysing their determinants. However, 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 joint 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 II presents seven steps for epidemiologists to strengthen their contribution to the public health cycle: conduct 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 III is dedicated to successful collaboration of epidemiology with other public health disciplines such as health promotion, policy making and primary health care.

This book is meant for students and epidemiologists in public health practice. It was written by 19 Dutch authors with either longstanding experience or fresh enthusiasm. The editors are all active in the recently established Academic Collaborative Centres Public Health in the Netherlands, which aim to bridge the gap between policy, practice and research.

© 2010 - 384 pages - EUR 53 - USD 73

Textbook
www.WageningenAcademic.com/epidemiology
The great diversity
Trajectories of Asian development
edited by: Camilla Brautaset and Christopher M. Dent

This book brings together scholars from the universities of Bergen and Leeds who explore how we may understand different trajectories of development in Asia, arguably the most dynamic and certainly the most diverse part of our world. It asserts that there is no one singular ‘truth’ on understanding development, or universal model on prescribing future paths of development. Evidence from Asia reminds us that the importance of locality in shaping development has not diminished despite deepening globalisation in the modern era. Furthermore, by accepting the prevalence of diversity we are able to learn certain lessons of development from each other, both within and across scholarly disciplines. The book explores how the concept of ‘development’ is itself highly contested, and there exist multiple narratives and discourses on the subject as demonstrated in this book. This book does not seek to define development, or prescribe a particular method of understanding it in an Asian context. Rather, it presents a number of works that in their own way touch on the subject of development, and it lays bare the inherent diversity of development as an idea, practice and experience. It is up to the reader to reflect on how the evidence and arguments presented in each chapter resonates, or not, on their own understanding of development.

© 2014 – 240 pages – EUR 56 – USD 78
Edited volume
www.WageningenAcademic.com/greatdiversity

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.

Edited volume
www.WageningenAcademic.com/coffee

EU policy for agriculture, food and rural areas
edited by: Arie Oskam, Gerrit Meester and Huib Silvis

The European Union varies widely within its boundaries. Still, there are common policies for agriculture, food and rural areas, although with many differences in relation to specific conditions in Member States. Starting with the Mac Sharry reform in 1992, the EU is on a long-term path to freer and more open markets. Traditional EU market and price measures are now largely replaced by ‘decoupled’ direct income support, and further steps are being prepared. There is increased attention at both EU and Member-State levels to food quality, food safety and animal welfare, as there is also to the environment and the development of rural areas. The Union is thus becoming a leader in food and rural policies.

Many experts have contributed their up-to-date knowledge to this book. It is suitable for scientific and professional education at bachelor level, and as a supporting text in master level courses. Business executives, officials and non-governmental organisations will also find this book to be of interest.

Second, completely revised edition.

Textbook
www.WageningenAcademic.com/eupolicy
Learning for sustainability in times of accelerating change
edited by: Arjen E.J. Wals and Peter Blaze Corcoran

We live in turbulent times, our world is changing at accelerating speed. Information is everywhere, but wisdom appears in scant supply when trying to address key inter-related challenges of our time such as: runaway climate change, the loss of biodiversity, the depletion of natural resources, the ongoing homogenization of culture, and rising inequity. Living in such times has implications for education and learning. This book explores the possibilities of designing and facilitating learning-based change and transitions towards sustainability. In 31 chapters contributors from across the world discuss (re)emerging forms of learning that not only assist in breaking down unsustainable routines, forms of governance, production and consumption, but also can help create ones that are more sustainable. The book has been divided into three parts: re-orienting science and society, re-connecting people and planet and re-imagining education and learning. This is essential reading for educators, educational designers, change agents, researchers, students, policymakers and entrepreneurs alike, who are concerned about the well-being of the planet and convinced of our ability to do better.

The content and related issues can be discussed on the blog by editor Arjen Wals: http://transformativelearning.nl.

Intergenerational learning and transformative leadership for sustainable futures
edited by: Peter Blaze Corcoran and Brandon P. Hollingshead

The work of creating the future is being done now – and much of it is unsustainable in terms of natural and cultural resources. How will the next generation of leadership for environmental sustainability be raised up? Can we imagine sustainable futures, and can we enable transformative leadership to help us realize them? How can we best ensure that the several generations share their particular knowledge? What are the ethical frameworks, methodologies, curricula, and tools necessary for advancing and strengthening education for intergenerational sustainability learning and leadership?

In this book, 82 authors from 26 countries across 6 continents seek answers in 32 essays to the many questions related to the intergenerational collaboration that holds promise for creating sustainable futures. The authors themselves represent a diversity of geography, gender, and generation – and include the institutions comprising the emerging International Intergenerational Net-work of Centers. They speak to key principles, perspectives, and praxes at the intersection of intergenerational learning and transformative leadership in the context of education for sustainability.

Edited volume
www.WageningenAcademic.com/youngpeople
Agriculture provides food and nutrition for all people and raw materials for industry. It is the source of employment and livelihoods for the majority of people in developing countries – including much of Sub-Saharan Africa. But agriculture faces sustainability and viability challenges, notably declining production and productivity, food and nutrition insecurity, and conflicting research and development approaches. Solutions to the challenges require innovation that involves transdisciplinary effort and multiple stakeholders.

The Developmental Work Research (DWR) methodology enables practitioners, content and process specialists to work together and develop solutions that overcome complex agriculture challenges. DWR provides conceptual tools that utilise the distributed cognition and volition of agricultural stakeholders to produce lasting solutions. This book discusses the DWR methodology and how it can and has been used to facilitate collective innovation, transform agricultural practices, improve the livelihoods of farming communities and the land. It draws on DWR-inspired case studies in southern Africa, Finland and New Zealand.

Present-day society asks more from agriculture than just the production of food. Agriculture is now required to be concerned with the quality of food, ecosystem services, inclusion of marginalized populations, revitalization of rural territories, energy production, etc.

This opening up of the future of agriculture encourages rural actors to experiment with new farming systems, using imagination, creativity and determination to replace dominant models. At the same time, low-cost mass-production systems continue on their way, with promises of a future based on green technologies. In this discussion it is important to consider what kind of sustainable development societies really want. Which innovations will help in achieving these developments? What role can research and public policies play in supporting the emergence of these innovations?

This book takes the debate beyond the purely technical options and considers social and institutional innovations as well. It demonstrates that innovation is the result of a confrontation between visions of actors who often have divergent interests. There is no single path towards sustainable development and we must find ways to encourage the emergence and co-existence of different types of agriculture and food systems. The success of transitions will not only depend on our capacity to rethink existing models, but especially on our willingness to embark on a creative learning process from which we will inevitably emerge transformed.

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.

Current successes in omics research have accelerated the production of high quality foods. Various mutation methodologies have been developed to achieve this progress, showing the importance of mutagenesis for food security. Mutagenesis: exploring novel genes and pathways describes the latest achievements in induced mutagenesis, with a particular focus on the development of crops. The book details experimental studies on functions of particular genes of interest, the mechanisms involved in physiological processes, and occurring chemical reactions. Also, the creation of new mutants and lines by use of genomic data banks is discussed. The book will be of mutual interest to end-users in modern breeding programs as well as to scientific research.

© 2014 - 476 pages - EUR 112 - USD 159
Edited volume
www.WageningenAcademic.com/mutagenesis

Mutagenesis: exploring genetic diversity of crops edited by: N.B. Tomlekova, M.I. Kozgar and M.R. Wani

In the present era various international organizations, such as FAO, UNO, IAEA, FNCA, etc., have unanimously agreed that millions of people in both developing and developed countries are not only facing a shortage of food, but also non-availability of nutrients. The main reason put forward by these agencies is that there is less genetic diversity prevalent in the major crops, which has been further diminished since the inception of conventional plant breeding. Since the first decade of the last century the mutation breeding approach has been pivotal in enhancing the genetic diversity of crops, thereby enriching the genetic pool. Mutagenesis: exploring genetic diversity of crops describes the latest achievements in mutation breeding, with a particular focus on the development of novel mutant varieties and F1 hybrids of crops highly superior to the parental ones. The book details experimental as well as literary studies of induced mutagenesis and its role in developing the new potent varieties. The book will be useful for agricultural policy making authorities in countries of agricultural importance, scientific researchers, breeders, teachers and students keen to use mutation breeding and to explore its hidden potential to secure food and nutrient availability for the growing world population.

© 2014 - 394 pages - EUR 98 - USD 141
Edited volume
hardback ISBN 978-90-8686-244-3
www.WageningenAcademic.com/mutagenesis2

Sustainable agroecosystems in climate change mitigation edited by: Maren Oelbermann

One of the challenges under current land management practices is to increase food and soil security to meet projected trends in food production, while maintaining the resilience to climate change. This book provides a forum for researchers to access the most recent developments in enhancing carbon sinks and minimizing greenhouse gas emissions. It suggests that policies and practices integrating microbial technology, modern crop cultivars, conservation practices, increased manure application, organic farming and agroforestry have a greater capacity to sequester carbon and reduce carbon-based greenhouse gases, leading to more robust agroecosystems compared to conventional agriculture. It is argued that empirical models can represent powerful tools for assessing how mitigation and adaptation strategies can be used to optimize crop yield and minimize greenhouse gas emissions under future climate change scenarios.

Sustainable agroecosystems in climate change mitigation bridges our current knowledge gaps and recognizes the contribution of sustainable agricultural practices as a way forward in reducing the global carbon and nitrogen footprint. It is relevant for students, researchers, governmental and non-governmental organisations interested in climate change mitigation, sustainable agriculture, soil science, modern analytical techniques and modelling. It answers the questions: ‘How can sustainable agroecosystems help mitigate climate change?’ and ‘What are the tools to achieve this goal?’

© 2014 - 272 pages - EUR 76 - USD 108
Edited volume
www.WageningenAcademic.com/agroecosystems
Precision agriculture is now ‘main stream’ in agriculture and is playing a key role as the industry comes to terms with the environment, market forces, quality requirements, traceability, vehicle guidance and crop management. Research continues to be necessary – and to be reported and disseminated to a wide audience.

These proceedings contain reviewed papers presented at the 10th European Conference on Precision Agriculture, held at the Volcani Centre, Israel. The papers reflect the wide range of disciplines that impinge on precision agriculture – technology, crop science, soil science, agronomy, information technology, decision support, remote sensing and others.

The broad range of research topics reported will be a valuable resource for researchers, advisors, teachers and professionals in agriculture long after the conference has finished.


Edited volume
www.WageningenAcademic.com/pa15

Agricultural and food consumption practices are the most important contributors to ecosystem degradation and climate change. Consumers are called on to take responsibility for sustainable development; to consider the environment in their everyday life, to choose more sustainably produced goods and services. Today many of the meals we eat are prepared by someone other than ourselves. In addition, environmental and social issues of food production might be important to us but they have to be weighed up against a range of situational and personal considerations. Thus ‘making a sustainable choice’ can be far from straightforward. This book explores the question ‘how sustainable food consumption can be encouraged’ using social practices theory. This approach focuses not on the individual behaviour of consumers, but on everyday food practices and their context.

The book discusses how Dutch consumers engage in sustainable food consumption on an everyday basis, and how consumers with different grocery shopping practices differ in this engagement. A second study considers the sustainable development of food provisioning within business catering. Here we discover the importance of food professionals and the opportunities that canteens and kitchens offer to explore more sustainable ways of eating. Both studies illustrate how a context-oriented approach leads to insights on where we find leverage points for changing consumption patterns.

© 2014 – 182 pages – EUR 49 – USD 70

PhD thesis
www.WageningenAcademic.com/eps-11

The current fossil fuel-based system of mobility is associated with a wide range of environmental and social problems. There is a growing body of literature on system innovations and transitions which has as a common understanding that long-term transformative change is necessary to deal with these complex problems. However, knowledge on the crucial role of citizen-consumers in sustainable mobility transitions is still underdeveloped. By incorporating the viewpoint of consumption patterns and everyday life routines, this book provides (new) knowledge on the role of citizen-consumers in sustainable mobility transitions. Theoretically, a practice based approach is developed as a novel framework to analyse, understand and influence transition processes to sustainable mobility at the level of everyday life.

The focus in each of the three cases studies is on situated interactions between consumers and producers. Amongst these is an analysis of the role environmental information and subsidies in new car purchasing. Also, various examples in which an attempt was made to orchestrate a (modal) shift in commuting practices are examined. Each of the empirical case studies shows the important role of contextual factors in understanding and influencing mobility behaviour of citizen-consumers. In addition, this book helps to understand how and why innovation in mobility practices takes place or not.

© 2013 – 260 pages – EUR 54 – USD 75

PhD thesis
www.WageningenAcademic.com/eps-10
**Beneficial Microbes**  
**Editor-in-chief:** Koen Venema  

ISSN 1876-2883 (paper)  
ISSN 1876-2891 (online)  
www.BeneficialMicrobes.org

*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.

**Journal of Insects as Food and Feed**  
**Editor-in-chief:** Alan Louey Yen  

ISSN: 2352-4588 (online)  
www.InsectsasFoodandFeed.com

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.

**Journal on Chain and Network Science**  
**Editor-in-chief:** S.W.F. Omta  

ISSN 1875-0931 (online)  
www.WageningenAcademic.com/JCNS

The *Journal on Chain and Network Science* aims to promote theory and practice in the field of innovation in business chains and networks. It takes a multidisciplinary approach, covering engineering, science and management disciplines. Articles are based on empirical research, well-considered observation of inter-organisational management experience, and conceptual and theoretical developments in the field of innovative chain and network science. The journal covers the entire spectrum of managerial concerns in business networks, including inter-organisational governance forms, innovation management, logistics, quality management, marketing, and strategic planning.

**World Mycotoxin Journal**  
**Editor-in-chief:** Hans P. van Egmond  

ISSN 1875-0710 (paper)  
ISSN 1875-0796 (online)  
www.WorldMycotoxinJournal.org

*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.