

Norwegian University Of Life Sciences Umb Core

Nature-based tourism (NBT) is a sector where entrepreneurial success is highly knowledge driven. This insightful book offers a comprehensive evaluation of NBT in a Nordic context, highlighting how long-established Nordic traditions of outdoor recreation practices can reveal lessons for the field more broadly. Chapters explore Nordic and international perspectives, local communities, market dynamics, firms, creativity, innovations and value-added experience products.

This Book of Abstracts is the main publication of the 62nd Annual Meeting of the European Association for Animal Production (EAAP) held in Stavanger, Norway from 29 August - 2 September 2011. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Also, important problems were discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems. In addition joint sessions on topics interesting several disciplines and species were included in the programme.

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Lactic acid bacteria (LAB) have historically been used as starter cultures for the production of fermented foods, especially dairy products. Over recent years, new areas have had a strong impact on LAB studies: the application of omics tools; the study of complex microbial ecosystems, the discovery of new LAB species, and the use of LAB as powerhouses in the food and medical industries. This second edition of Biotechnology of Lactic Acid Bacteria: Novel Applications addresses the major advances in the fields over the last five years. Thoroughly revised and updated, the book includes new chapters. Among them: The current status of LAB systematics; The role of LAB in the human intestinal microbiome and the intestinal tract of animals and its impact on the health and disease state of the host; The involvement of LAB in fruit and vegetable fermentations; The production of nutraceuticals and aroma compounds by LAB; and The formation of biofilms by LAB. This book is an essential reference for established researchers and scientists, clinical and advanced students, university professors and instructors, nutritionists and food technologists working on food microbiology, physiology and biotechnology of lactic acid bacteria.

New Aspects of Meat Quality

Issues in Animal Science and Research: 2012 Edition

Transition Elements—Advances in Research and Application: 2012 Edition

From Place-based Resources to Value-added Experiences

Issues in Life Sciences—Botany and Plant Biology Research: 2012 Edition

Issues in Biochemistry and Geochemistry: 2012 Edition

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Understanding how populations of neurons encode information is the challenge faced by researchers in the field of neural coding. Focusing on the many mysteries and marvels of the mind has prompted a prominent team of experts in the field to put their heads together and fire up a book on the subject. Simply titled Principles of Neural Coding, this book covers the complexities of this discipline. It centers on some of the major developments in this area and presents a complete assessment of how neurons in the brain encode information. The book collaborators contribute various chapters that describe results in different systems (visual, auditory, somatosensory perception, etc.) and different species (monkeys, rats, humans, etc). Concentrating on the recording and analysis of the firing of single and multiple neurons, and the analysis and recording of other integrative measures of network activity and network states—such as local field potentials or current source densities—is the basis of the introductory chapters. Provides a comprehensive and interdisciplinary approach Describes topics of interest to a wide range of researchers The book then moves forward with the description of the principles of neural coding for different functions and in different species and concludes with theoretical and modeling works describing how information processing functions are implemented. The text not only contains the most important experimental findings, but gives an overview of the main methodological aspects for studying neural coding. In addition, the book describes alternative approaches based on simulations with neural networks and in silico modeling in this highly interdisciplinary topic. It can serve as an important reference to students and professionals.

Romania hosts the 2012 Bologna / European Higher Education Area Ministerial Conference and the Third Bologna Policy Forum. In preparation for these meetings, The Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) organised the Future of Higher Education - Bologna Process Researchers' Conference (FOHE-BPRC) in Bucharest on 17-19 October 2011, with the support of the European University Association (EUA) and the Romanian National Committee for UNESCO. The conference brought the voices of researchers into international-level policy making in higher education. The results of the conference are presented in this book. Until now, empirical evidence supporting policies and reforms in higher education has often been a matter of local or regional focus. The development of a pan-European process in higher education policy drives a need to explore wider research topics on which to base policies. This book offers an unprecedented opportunity for higher education researchers to interact and contribute to the political process shaping the European Higher Education Area (EHEA), and to national policy agendas in more than 100 participant countries for the 2012 ministerial events. The book collects more than 50 articles focusing on vital issues in European higher education. These are arranged in sections addressing the European Higher Education Area (EHEA) Principles; Teaching and Learning; Quality Assurance; Mobility; Higher Education Governance in the EHEA; Funding of Higher Education; Diversification of Higher Education Missions; Higher Education Futures and Foresight.

Comprehensive Chemometrics, Second Edition features expanded and updated coverage, along with new content that covers advances in the field since the previous edition published in 2009. Subject of note include updates in the fields of multidimensional and megavariate data analysis, omics data analysis, big chemical and biochemical data analysis, data fusion and sparse methods. The book follows a similar structure to the previous edition, using the same section titles to frame articles. Many chapters from the previous edition are updated, but there are also many new chapters on the latest developments. Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience

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Sensing Technology

The Genetics and Physiology of Life History Traits and Trade-Offs

Elephants and Savanna Woodland Ecosystems

OECD Reviews of Innovation Policy: Norway 2017

Advances in Enterobacteriaceae Research and Treatment: 2012 Edition

Supporting Career Development and Research

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This textbook provides a comprehensive introduction to all aspects of plant diseases, including pathogens, plant-pathogen interactions, their management, and future perspectives. Plant diseases limit potential crop production and are responsible for considerable losses in agriculture, horticulture and forestry. Our global food production systems are under increasing pressure from global trade, climate change and urbanization. If we could alleviate the losses due to plant diseases, we would be able to produce roughly 20% more food - enough to feed the predicted world population in 2050. Co-authored by a group of international teachers of plant pathology who have collaborated for many years, the book gives expert and seamless coverage. Plant Pathology and Plant Diseases: Addresses major advances in plant-pathogen interactions, classification of plant pathogens, and the methods of managing or controlling disease Is relevant for a global audience; it covers many examples of diseases with an impact worldwide but with an emphasis on disease of particular importance in a temperate context Features over 400 striking figures and colour photographs It is suitable for graduate students and advanced undergraduates studying plant pathology, biology, agriculture and horticulture.

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Issues in Life Sciences—Molecular Biology: 2013 Edition

Nordic Perspectives on Nature-based Tourism

Aquaculture Engineering

From Genes to Ethics

Issues in Life Sciences—Muscle, Membrane, and General Microbiology: 2013 Edition

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"The majority of the papers herein originated at the workshop 'Process Philosophy of Biology' ... held in Exeter in November 2014."--Page vii.

Study in Europe: A Scholarships Guide - presents scholarships, awards, fellowships, grants, studentships, bursaries and courses that are available in different universities and colleges in Europe. Each scholarship award description includes: name of University or College, academic department or faculty offering the award, degree program and duration of study, value and purpose of the scholarship, admission requirements and eligibility, any restrictions, application deadlines and notification dates for undergraduate, graduate, doctoral and post-doctoral study/research, and contact information.

Book of Abstracts of the 62nd Annual Meeting of the European Association for Animal ProductionStavanger, Norway, 29 August - 2 September 2011Wageningen Academic Pub

Key features: Describes the effects and responses of the macro and micro levels of crops under the different components of climate change Reports on the adaptation and resilience of food production systems within the changing climate Covers how plants cope with the changing climate including physiological, biochemical, phenotype, and ecosystem responses Provides an in-depth discussion on the importance of agricultural education connected to climate change Presenting an overview of agroecology within the framework of climate change, this book looks at the impact of our changing climate on crop production and agroecosystems, reporting on how plants will cope with these changes, and how we can mitigate these negative impacts to ensure food production for the growing population. It explores the ways that farmers can confront the challenges of climate change, with contributed chapters from around the world demonstrating the different challenges associated with differing climates. Examples are provided of the approaches being taken right now to expand the ecological, physiological, morphological, and productive potential of a range of crop types. Giving readers a greater understanding of the mechanisms of plant resilience to climate change, this book provides new insights into improving the productivity of an individual crop species as well as bringing resistance and resiliency to the entire agroecosystem. It offers a strong foundation for changing research and education programs so that they build the resistance and resilience that will be needed for the uncertain climate future ahead.

Towards a Processual Philosophy of Biology

Advances in Biotechnology Research and Application: 2012 Edition

Enzymes and Coenzymes: Advances in Research and Application: 2011 Edition

Issues in Life Sciences: Molecular Biology: 2011 Edition

Study in Europe

Principles of Neural Coding

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New Aspects of Meat Quality, Second Edition continues to be the leading source of scientific information for what constitutes meat quality for consumers, marketers and producers in the 21st century. The book includes traditional measures of meat quality such as texture, water holding, color, flavor/aroma, safety/microbiology and processing characteristics as well as quality assurance schemes, organic/free range, ethical meat production, and the desirability of genetically modified organisms, amongst others. Users will find comprehensive coverage on developments in our understanding of how muscle structure affects the eating qualities of cooked meat, along with techniques for measuring, predicting and producing meat quality. In addition, the book covers how these new techniques help us minimize variability in eating quality and/or maximize value. The book's final section identifies the current qualities of consumer and public perceptions and what is sustainable, ethical, desirable and healthy in meat production and consumption. Provides the latest research techniques and developments presented by top researchers in the field Covers new aspects of meat quality with the same scientific authority as texts on traditional meat quality value Includes five new chapters that cover the role of proteolysis, meat flavor, meat bi-products, and meat and public health

This study analyses countries' government and institutional level policies on formal training in transferable skills for researchers, from doctoral students through to experienced research managers.

During the nineteenth century, ivory hunting caused a substantial decrease of elephant numbers in southern Africa. Soon after that, populations of many other large and medium-sized herbivores went into steep decline due to the rinderpest pandemic in the 1890s. These two events provided an opportunity for woodland establishment in areas previously intensively utilized by elephants and other herbivores. The return of elephants to currently protected areas of their former range has greatly influenced vegetation locally and the resulting potential negative effects on biodiversity are causing concern among stakeholders, managers, and scientists. This book focuses on the ecological effects of the increasing elephant population in northern Botswana, presenting the importance of the elephants for the heterogeneity of the system, and showing that elephant ecology involves much wider spatiotemporal scales than was previously thought. Drawing on the results of their research, the authors discuss elephant-caused effects on vegetation in nutrient-rich and nutrient-poor savannas, and the potential competition between elephants on the one hand and browsers and mixed feeders on the other. Ultimately this text provides a comprehensive review of ecological processes in African savannas, covering long-term ecosystem changes and human-wildlife conflicts. It summarises new knowledge on the ecology of the sub-humid African savanna ecosystems to advance the general functional understanding of savanna ecosystems across moisture and nutrient gradients.

Following a remarkable transformation in the past century in research and innovation, in particular through the development of new technologies and processes in sectors such as oil and gas, shipbuilding and also fisheries and aquaculture.

Issues in Applied Agriculture: 2011 Edition

Between the Bologna Process and National Reforms

Stavanger, Norway, 29 August - 2 September 2011

Issues in Life Sciences: Botany and Plant Biology Research: 2011 Edition

Issues in Life Sciences—Zoology: 2013 Edition

52nd International Congress of Meat Science and Technology

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With millions of different bacterial species living in soil, the microbial community is extremely complex, varying at very small scales. Microbe-driven functions are essential for most processes in soil. Thus, a better understanding of this microbial diversity will be invaluable for the management of the various soil functions. Nucleic Acids and Proteins in Soil combines traditional approaches in soil microbiology and biochemistry with the latest techniques in molecular microbial ecology. Included are methods to analyse the presence and importance of nucleic acids and proteins both inside and outside microbial cells, the horizontal gene transfer which drives bacterial diversity, as well as soil proteomes. Further chapters describe techniques such as PCR, fingerprinting, the challenging use of gene arrays for structural and functional analysis, stable isotope probing to identify in situ metabolic functions, and the use of marker and reporter genes in soil microbial ecology.

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This book contains over 300 offered papers in addition to 4 papers from invited speakers presented at the 52nd International Congress of Meat Science and Technology, held in Dublin, Ireland, from 13-18 August 2006. Under the theme of harnessing and exploiting global opportunities, areas covered in the congress included meat quality encompassing genomics and biotechnology, animal production and production systems, muscle biology and biochemistry; meat safety, meat processing and packaging technology, consumer topics and meat and health. A new approach this year was to address specific hot topics important to the industry and meat scientists, in particular, electrical stimulation and new instrumental methods for evaluation of meat quality characteristics. These proceedings reflect the truly global nature of meat research and give an insight into the current research issues for the industry.

New Perspectives in Partial Least Squares and Related Methods

Issues in Biological and Life Sciences Research: 2011 Edition

Proceedings of ICST 2022

A Study from Chobe National Park, Botswana

Plant Pathology and Plant Diseases

Fish Nutrition

Updated and upgraded Life Sciences. There has never been a Life Sciences Guide like this. It contains 80 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about Life Sciences. A quick look inside of some of the subjects covered: Board of Editors in the Life Sciences (BELS), Fluorophore - Uses outside the life sciences, 454 Life Sciences - Ownership, Institute of Food and Agricultural Sciences - College of Agricultural and Life Sciences, 454 Life Sciences - History and major achievements, Cornell University College of Agriculture and Life Sciences, Chemical industry - Life sciences, 2013 in science - Breakthrough Prize in Life Sciences, 454 Life Sciences - Metagenomics, Metal Ions in Life Sciences - Metallomics and the Cell (MILS 12), NASA Research Park - Human Factors and Life Sciences, 454 Life Sciences - Technology, Norwegian University of Life Sciences - Degree programmes, Life Sciences Switzerland - Affiliated societies, Metal Ions in Life Sciences - Structural and Catalytic Roles of Metal Ions in RNA (MILS 9), Altairnano - Life Sciences, 454 Life Sciences - Applications, Glasgow Caledonian University - Health and Life Sciences, Data integration Data Integration in the Life Sciences, 454 Life Sciences - Amplicon sequencing, Radioactivity in the life sciences, Board of Editors in the Life Sciences (BELS) - History, Data integration - Data Integration in the Life Sciences, Cornell University College of Agriculture and Life Sciences - The Agriculture Quadrangle, Biomedical science - Life sciences specialisms, and much more...

The revised edition of the comprehensive book that explores the principles and applications of aquaculture engineering Since the publication of the first edition of Aquaculture Engineering there have been many advances in the industry. The revised and thoroughly updated third edition of Aquaculture Engineering covers the principles and applications of all major facets of aquaculture engineering and the newest developments in the field. Written by a noted expert on the topic, the new edition highlights information on new areas of interest including RAS technology and offshore fish farming. Comprehensive in scope, the book examines a range of topics including: water transportation and treatment; feed and feeding systems; fish transportation and grading; cleaning and waste handling; instrumentation and monitoring; removal of particles; aeration and oxygenation; recirculation and water reuse systems; ponds; and the design and construction of aquaculture facilities. This important book: Presents an updated review of the basic principles and applications in aquaculture engineering Includes information on new areas of focus; RAS technology and offshore fish farming Contains a revised edition of the classic resource on aquaculture engineering Continues to offer an authoritative guide written by a leading expert in the field Written for aquaculture scientists and managers, engineers, equipment manufacturers and suppliers, and biological scientists, the third edition of Aquaculture Engineering is the authoritative guide to the topic that has been updated to include the most recent developments in the industry.

To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have been on the whole “diseases-centric and individual viral diseases selected based on “epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (Fish viruses and fish viral diseases 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. Aquaculture Virology provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology

Life history theory seeks to explain the evolution of the major features of life cycles by analyzing the ecological factors that shape age-specific schedules of growth, reproduction, and survival and by investigating the trade-offs that constrain the evolution of these traits. Although life history theory has made enormous progress in explaining the diversity of life history strategies among species, it traditionally ignores the underlying proximate mechanisms. This novel book argues that many fundamental problems in life history evolution, including the nature of trade-offs, can only be fully resolved if we begin to integrate information on developmental, physiological, and genetic mechanisms into the classical life history framework. Each chapter is written by an established or up-and-coming leader in their respective field; they not only represent the state of the art but also offer fresh perspectives for future research. The text is divided into 7 sections that cover basic concepts (Part 1), the mechanisms that affect different parts of the life cycle (growth, development, and maturation; reproduction; and aging and somatic maintenance) (Parts 2-4), life history plasticity (Part 5), life history integration and trade-offs (Part 6), and concludes with a synthesis chapter written by a prominent leader in the field and an editorial postscript (Part 7).

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Issues in Genetic Medicine: 2011 Edition

Biotechnology of Lactic Acid Bacteria

Issues in Life Sciences—Aquatic and Marine Life: 2013 Edition

Everything Flows

Scholarships Guide

Life Sciences 80 Success Secrets - 80 Most Asked Questions on Life Sciences - What You Need to Know

This book gathers the latest advances, innovations, and applications in the field of sensing technology, as presented by international researchers and engineers at the 14th International Conference on Sensing Technology (ICST), held in Chennai, India on January 17-19, 2022. Contributions include a wide range of topics such as: vision sensing, sensor signal processing, modelling, sensor characterization, smart sensors and sensor fusion, electromagnetic, chemical and physical sensors, electronic nose technology, biosensors, nano sensors, wireless sensors and WSN, Internet of Things, optical sensors, sensor arrays, intelligent sensing, Internet-based and remote data acquisition. The contributions, which were selected by means of a review process, present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists.

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Fish Nutrition, Fourth Edition is an up-to-date, authoritative presentation of all key elements of the nutrition of fish and crustaceans. As aquaculture is rapidly expanding, more than 200 herbivorous and carnivorous species occupy a diverse range of ecological niches, and have therefore evolved to utilize a wide array of food sources. This new edition highlights the complexity and challenges associated with fish nutrition, addressing nutrient requirements to produce high-quality, healthful and sustainable resources, the essential nutrients for fish species, including proteins and amino acids, vitamins, minerals and essential fatty acids, a feed quality assessment, and fish pathology. Led by a team of international experts, this edition provides comprehensive information on the use of high-throughput technologies in fish nutrition research, the role of feeds on the community structure of the microbiome, and advances in essential nutrient requirements. Features expansive updates to the previous edition, including a new chapter dedicated to diet analysis and evaluation Addresses the roles of fish nutrition and feeds on the environment and the industry Impacts of aquaculture Covers basic nutritional biochemistry and applied nutritional topics

New Perspectives in Partial Least Squares and Related Methods shares original, peer-reviewed research from presentations during the 2012 partial least squares methods meeting (PLS 2012). This was the 7th meeting in the series of PLS conferences and the first to take place in the USA. PLS is an abbreviation for Partial Least Squares and is also sometimes expanded to Partial Least Squares and Related Methods. The book presents the results of the 2012 PLS methods meeting, which included three keynote presentations and 20 regular presentations. The keynote presentations, which were given by three of the leading experts in the field, provide a comprehensive overview of the current state of the most advanced research related to PLS and related methods. The regular presentations, which were given by 20 leading experts in the field, provide a comprehensive overview of the current state of the most advanced research related to PLS and related methods. The book also includes a large variety of PLS approaches such as PLS metamodels, variable selection, sparse PLS regression, distance based PLS, significance vs. reliability, and non-linear PLS. Finally, these contributions applied PLS methods to data originating from the traditional econometric/economic data to genomics data, brain images, information systems, and spectroscopy. Such a broad and comprehensive volume will also encourage new uses of PLS models in work by researchers and students in many fields.

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