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**Agriculture and Agri-food in Canada** Jan 17 2020

[Geographical Indication and Global Agri-Food](#) Mar 31 2021 This book addresses the relevance of geographical indication (GI) as a tool for local and socio-economic development and democratization of agri-food, with case studies from Asia, Europe and the Americas. A geographical indication is a sign used on products that have a specific geographical origin and possess qualities or a reputation that are due to that origin. It provides not only a way for businesses to leverage the value of their geographically unique products, but also to inform and attract consumers. A highly contested topic, GI is praised as a tool for the revitalization of agricultural communities, while also criticized for being an instrument exploited by global corporate forces to promote their interests. There are concerns that the promotion of GI may hamper the establishment of democratic forms of development. The contributing authors address this topic by offering theoretically informed investigations of GI from around the world. The book includes case studies ranging from green tea in Japan, olive oil in Turkey

and dried fish in Norway, to French wine and Mexican Mezcal. It also places GI in the broader context of the evolution and trends of agri-food under neoliberal globalization. The book will be of interest to researchers, policy makers and students in agri-food studies, sociology of food and agriculture, geography, agricultural and rural economics, environmental and intellectual property law, and social development.

**Handbook of Agri-Food Law in China, Germany, European Union** Jan 09 2022 This book offers a new and differentiated overview of Agri-Food Law against the background of national and global integration of markets, and compares for the first time important aspects of the agricultural, environmental and food law of China and Germany / the European Union. In addition to the basics, it discusses a wide range of issues, such as the respective legal regulatory structures for food security, food safety, geographical indications of origin, climate protection, fertilizers, plant protection products, genetic engineering, water protection, soil protection, land resources and organic farming. In addition, it addresses key environmental impacts and developments in order to create integrated value chains. The increasing fusion of upstream and downstream areas is becoming apparent from primary production, to the refinement and trade up level, and even to consumption. Agri-Food Law is now productively taking these important developments into account with regard to the aforementioned countries.

**The Good Farmer** Feb 16 2020 Developed by leading authors in the field, this book offers a cohesive and definitive theorisation of the concept of the 'good farmer', integrating historical analysis, critique of contemporary applications of good farming concepts, and new case studies, providing a springboard for future research. The concept of the good farmer has emerged in recent years as part of a move away from attitude and economic-based understandings of farm decision-making towards a deeper understanding of culture and symbolism in agriculture. The Good Farmer shows why agricultural production is socially and culturally, as well as economically, important. It explores the history of the concept and its position in contemporary theory, as well as its use and meaning in a variety of different contexts, including landscape, environment, gender, society, and as a tool for resistance. By exploring the idea of the good farmer, it reveals the often-unforeseen assumptions implicit in food and agricultural policy that draw on culture, identity, and presumed notions of what is 'good'. The book concludes by considering the potential of the good farmer concept for addressing future, emerging issues in agriculture. This book will be of interest to students and scholars of food and agriculture and rural development, as well as professionals and policymakers involved in the food and agricultural industry.

*International agrifood chains and networks* Mar 19 2020 Selection of papers presented at the 7th International Conference on Management in Agri-Food Chains and Networks, held in The Netherlands June 1-2 2006.

**Nanotechnology in the Agri-Food Sector** Sep 24 2020 Providing an overview of nanotechnology in the context of agriculture and food science, this monograph covers topics such as nano-applications in the agri-food sector, as well as the social and ethical implications. Following a review of the basics, the book goes on to take an in-depth look at processing and engineering, encapsulation and delivery, packaging, crop protection and disease. It highlights the technical, regulatory, and safety aspects of nanotechnology in food science and agriculture, while also considering the environmental impact. A valuable and accessible guide for professionals, novices, and students alike.

**Developing Smart Agri-Food Supply Chains** Nov 26 2020 The safety of agri-food supply chains remains under constant threat from instances of food adulteration, malicious contamination, exposure of products to microbiological and chemical hazards, as well as the

presence of foreign bodies in food products. Developing smart agri-food supply chains: using technology to improve safety and quality provides an authoritative assessment of the recent developments implemented to improve safety and quality at all levels of the agri-food supply chain. This collection provides a comprehensive coverage of the methods used to establish food authenticity and integrity, including tracking technologies such as radio-frequency identification (RFID) and DNA profiling. Edited by Professor Louise Manning, Royal Agricultural University, UK, *Developing smart agri-food supply chains: using technology to improve safety and quality* will be a standard reference for researchers working in food safety in universities or other research centres, government and private agencies regulating threats to the agri-food supply chain, and food processors and retailers/suppliers.

**Agri-Food Industry Strategies for Healthy Diets and Sustainability** Dec 20 2022 Divided into five sections, *Agri-Food Industry Strategies for Healthy Diets and Sustainability: New Challenges in Nutrition and Public Health* provides an overview of the challenges and future perspectives related to nutrition, public health, and sustainability. The book addresses strategies to reduce fat, trans fat, saturated fat, sugar, and salt consumption, while also exploring the manufacturing, safety, and toxicology of new food manufacturing. This book examines commercial labeling and nutritional education, nutrigenomics and public health, and provides coverage of the valorization of waste and by-products from the food industry. Nutrition researchers and practitioners, food scientists, technologists, engineers, agronomists, food product developers, medical and public health professionals, and postgraduate students focused in food science and nutrition are sure to find this reference work a welcomed addition to their libraries. Contains innovative strategies to achieve a healthy diet through the design of new food products Provides comprehensive information related to agriculture, nutrition, food industry, government, and sustainable waste management and details their roles in addressing food waste Explores the ways in which innovative approaches, used to valorize and give an added value to agri-food waste and by-products, ensure the sustainability of the production process Presents nutritive education about reducing empty calories by lowering consumption of fats, sugars, and other high-calorie nutrients Delineates the roles of food industry and government in shaping the best policies for the general public and the design of new products

*Next Generation of Agriculture and Agri-food Policy* Apr 12 2022

**The Transformation of Agri-food Systems** Aug 16 2022 The driving forces of income growth, demographic shifts, globalisation and technical change have led to a reorganisation of food systems from farm to plate. The characteristics of supply chains - particularly the role of supermarkets - linking farmers have changed, from consumption and retail to wholesale, processing, procurement and production. This has had a dramatic effect on smallholder farmers, particularly in developing countries. This book presents a comprehensive framework for assessing the impacts of changing agri-food systems on smallholder farmers, recognising the importance of heterogeneity between developing countries as well as within them. The book includes a number of case studies from Asia, Africa, Latin America and Eastern Europe, which are used to illustrate differences in food systems' characteristics and trends. The country case studies explore impacts on the small farm sector across different countries, local contexts and farm types

**Agriculture and Agri-food in Canada** Jul 03 2021

The Financialization of Agri-Food Systems Nov 19 2022 Financialization is the increased influence of financial actors and logics on social and economic life, and is one of the key drivers transforming food systems and rural economies around the world. The premise of this book is that the actions of financial actors, and their financial logics, are transforming agri-

food systems in profound ways. It is shown that although financialization is a powerful dynamic, some recent developments suggest that the rollout of financialization is contradictory and uneven in different spaces and markets. The book examines cases in which state regulation or re-regulation and social movement resistance are setting roadblocks or speed bumps in the path of financialization, resulting in a 'cooling off' of investment, as well as the other side of the argument where there is evidence of a 'heating up'. The authors address not only the limits to financialization, but also the mechanisms through which financial entities are able to penetrate and re-shape agri-food industries. This book provides both a comparative analysis of financialization blending, and empirical findings with conceptual insights. It explores the connection between financialization, food systems, and rural transformation by critically examining: the concept of financialization and how food and farming are being financialized; the impacts of financialization in the food industry; and financialization in farming and forestry – along with the impacts this has on rural people and communities. This is a timely book, bringing together concrete case studies, from around the globe, to reveal the operations and impacts of finance capital in the 'space' of agri-food.

**Localizing Global Food** Apr 19 2020 This book reviews recent initiatives on short food supply chains from an interdisciplinary perspective. It is aimed at advanced students in food studies, sociology, geography, planning, politics and environmental studies.

**Advances in Agri-Food Biotechnology** Oct 06 2021 This book presents biotechnological advances and approaches to improving the nutritional value of agri-foods. The respective chapters explore how biotechnology is being used to enhance food production, nutritional quality, food safety and food packaging, and to address postharvest issues. Written and prepared by eminent scientists working in the field of food biotechnology, the book offers authentic, reliable and detailed information on technological advances, fundamental principles, and the applications of recent innovations. Accordingly, it offers a valuable guide for researchers, as well as undergraduate and graduate students in the fields of biotechnology, agriculture and food technology.

**Agriculture, Food and Nutrition for Africa** Oct 18 2022

*Encyclopedia of Agriculture and Food Systems* Dec 16 2019 *Encyclopedia of Agriculture and Food Systems, Second Edition* addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face. Questions it addresses include: Will we be able to produce enough food to meet the increasing dietary needs and wants of the additional two billion people expected to inhabit our planet by 2050? Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today's agriculture practices? Will we be able to produce the additional food using less land and water than we use now? These are among the most important challenges that face our planet in the coming decades. The broad themes of food systems and people, agriculture and the environment, the science of agriculture, agricultural products, and agricultural production systems are covered in more than 200 separate chapters of this work. The book provides information that serves as the foundation for discussion of the food and environment challenges of the world. An international group of highly respected authors addresses these issues from a global perspective and provides the background, references, and linkages for further exploration of each of topics of this comprehensive work. Addresses important challenges of sustainability and efficiency from a global perspective. Takes a detailed look at the important issues affecting the agricultural and food industries today. Full colour throughout.

**Russia's Role in the Contemporary International Agri-Food Trade System** Jul 15 2022 This Open Access book analyses the emergence of Russia as a global food power and what

it means for global food trade. Russia's strategy for food production and trade has changed significantly since the end of the Soviet period, and this is the first book to take account of Russia's rise as a food power and the global implications of that rise. It includes food trade policy and practice, and developments in regional food trade. This book will be of interest to academics and practitioners in agricultural economics, international trade, and international food trade.

**Valorization of Agri-Food Wastes and By-Products** Dec 28 2020

*Valorization of Agri-Food Wastes and By-Products: Recent Trends, Innovations and Sustainability Challenges* addresses the waste and by-product valorization of fruits and vegetables, beverages, nuts and seeds, dairy and seafood. The book focuses its coverage on bioactive recovery, health benefits, biofuel production and environment issues, as well as recent technological developments surrounding state of the art of food waste management and innovation. The book also presents tools for value chain analysis and explores future sustainability challenges. In addition, the book offers theoretical and experimental information used to investigate different aspects of the valorization of agri-food wastes and by-products.

*Valorization of Agri-Food Wastes and By-Products: Recent Trends, Innovations and Sustainability Challenges* will be a great resource for food researchers, including those working in food loss or waste, agricultural processing, and engineering, food scientists, technologists, agricultural engineers, and students and professionals working on sustainable food production and effective management of food loss, wastes and by-products. Covers recent trends, innovations, and sustainability challenges related to food wastes and by-products valorization Explores various recovery processes, the functionality of targeted bioactive compounds, and green processing technologies Presents emerging technologies for the valorization of agri-food wastes and by-products Highlights potential industrial applications of food wastes and by-products to support circular economy concepts

**Multifunctional Hybrid Nanomaterials for Sustainable Agri-food and Ecosystems** Aug 04 2021

*Multifunctional Hybrid Nanomaterials for Sustainable Agrifood and Ecosystems* shows how hybrid nanomaterials (HNMs) are being used to enhance agriculture, food and environmental science. The book discusses the synthesis and characterization of HNMs before exploring agrifoods and environmental functions. It shows how novel HNMs are being used for the detection and separation of heavy metal ions, for destroying and sensing of insecticides, in managed release fertilizer and pesticide formulations, plant protection, plant promotions, purification, detection, and to control mycotoxins. Further, the book describes the use of silica-based total nanosystems, carbon nanotubes, nanocellulose-based, and polymer nanohybrids for agricultural and biological applications. This book is an important reference source for materials scientists, engineers and food scientists who want to gain a greater understanding on how multifunctional nanomaterials are being used for a range of agricultural and environmental applications. Outlines the major nanomaterial types that are being used in agriculture Explains why the properties of multifunctional nanomaterials are particularly efficient for use in agriculture Assesses the major challenges of using multifunctional nanomaterials on an industrial scale

**Polymers for Agri-Food Applications** Sep 05 2021 This book presents an exhaustive analysis of the trends in the development and use of natural and synthetic polymer systems aimed at sustainable agricultural production. The polymers have allowed the development of controlled and released systems of agrochemicals such as pesticides, fertilizers and phytohormones through micro and nanoencapsulated systems, which protect and stimulate the growth of crops at low costs and without damage to the environment. Hydrogel systems from natural and synthetic polymers have also had their place in the agricultural industry, since they allow

to maintain the humidity conditions of the crops for their correct development in drought times. Mulch films made of polymers have also become important in the control of weeds and pests in crops, as well as the use of edible coatings applied to fruits and vegetables during post-harvest, which reduce the losses of these perishable foods. Currently, the systems indicated, as well as others, are already used on a large scale. However, research studies in this area have been limited compared to other polymer applications. This book collects useful information for researchers, students and technologies related to the polymer technology and agri-food production. In this book, world-renowned researchers have participated, including associate editors of important journals, as well as researchers working in the area of research and development (R&D) of leading agri-food industries in the manufacture of agricultural inputs.

Agri-Food 4.0 May 21 2020 *Agri-Food 4.0: Innovations, Challenges and Strategies* addresses new research on digital technologies in the Agri-Food industry, including smart packaging, smart warehousing, effective inventory control, blockchain technology, artificial intelligence, and other Industry 4.0 concepts.

*Challenges and Opportunities of Circular Economy in Agri-Food Sector* Jun 21 2020 Global population by 2050 is predicted to be over 9 billion and accordingly, the production systems will demolish about 140 billion tons per year of minerals, ores, fossil fuels and biomass, i.e., thrice of the current need, and the food production itself has to be doubled. Optimized resource usage, lifecycle management, and reduced carbon emission have become a priority for agri-food businesses today, and circular economy (CE) helps for a sustainable and flexible way to grow without exhausting primary materials, and it thinks beyond recycling and resource usage. The word CE best relates to the resource and efficiency management, 6Rs, closed-loop production systems, zero waste and lifecycle engineering, reduced overconsumption of resources and waste generation, enriched system redesign and business model innovation, thereby leading to sustainable development goals. In this light, the book calls for theoretical and empirically sound contributions that are focused on the different aspects of the circular economy, 6R's, sustainable production and consumption, closed-loop systems, etc. in the agri-food sector.

**Agri-environmental Governance as an Assemblage** Oct 14 2019 In recent decades, the governance of the environment in agri-food systems has emerged as a crucial challenge. A multiplicity of actors have been enrolled in this process, with the private sector and civil society progressively becoming key components in a global context often described as neoliberalization. Agri-environmental governance (AEG) thus gathers a highly complex assemblage of actors and instruments, with multiple interrelations. This book addresses this complexity, challenging traditional modes of research and explanation in social science and agri-food studies. To do so, it draws on multiple theoretical and methodological insights, applied to case studies from Asia, Europe, Africa, and the Americas. It elaborates an emergent approach to AEG practices as assemblages, looking at the coming-together of multiple actors with diverse trajectories and objectives. The book lays the foundations for an encompassing theoretical framework that transcends pre-existing categories, as well as promoting innovative methodologies, which integrate the role of social actors – including scientists – in the construction of new assemblages. The chapters define, first, the multiplicities and agencies inherent to AEG assemblages. A second set tackles the question of the politics in AEG assemblages, where political hierarchies interweave with economic power and the search for more democratic and participative approaches. Finally, these insights are developed in the form of assemblage practice and methodology. The book challenges social scientists to confront the shortcomings of existing approaches and consider

alternative answers to questions about environmental governance of agri-food systems.

**Agri-food and Forestry Sectors for Sustainable Development** Mar 11 2022 This book surveys state-of-the-art and prospective practices, methods and technologies in agri-food and forestry sectors to document the potential measurable improvements in areas of environmental management, food security, economic growth, social cohesion and human health at the local and global scale. With a focus on the ecosystems-resources-climate-food-health nexus as a framework towards achieving the UN Sustainable Development Goals applicable in these sectors, the book offers a portfolio of guidelines and standards that assesses the affordability, potential profitability and possible unintended consequences of interventions. The areas of intervention covered in the study include global and local forest resources management, safe wastewater reuse for irrigation, sustainable crop and plant protection (e.g. biopesticides, bioherbicides), carbon sequestration and emission reduction strategies, and safe processing methods for food and food waste (e.g. sustainable food preservatives and healthier food). The book is primarily intended for academics, professionals, and policymakers. The professional audience, including enterprises in the forestry, farming, food processing, healthcare and waste management sectors, will take advantage of the updated knowledge basis concerning the innovations in the respective practices, methods and technologies, including their feasibility, affordability and profitability, and policymakers will find useful the comprehensive review of these innovations which could be strategically promoted and deployed in the next decade, with the aim of achieving the UN Sustainable Development Goals.

**Carbon Nanomaterials for Agri-food and Environmental Applications** May 13 2022

Carbon Nanomaterials for Agri-food and Environmental Applications discusses the characterization, processing and applications of carbon-based nanostructured materials in the agricultural and environmental sectors. Sections discuss the synthesis and characterization of carbon nanotubes, the technological developments in environmental applications of carbon-based nanomaterials, and agri-food applications. The book also covers the toxic effects of engineered carbon nanoparticles on the environment, and in plants and animals. Finally, quality control and risk management are addressed to assess health and environmental risks. This is an applicable book for graduate students, researchers and those in industrial sectors of science and technology who want to learn more about carbon nanomaterials. Compares a range of carbon-based nanomaterials, showing how they are used for a range of agricultural and environmental applications Discusses the challenges and toxicity of different types of carbon-based nanomaterials for environmental and agricultural applications Explores when different classes of nanomaterial should be used in different environments

**Sustainable Food and Agriculture** Jun 14 2022 Sustainable Food and Agriculture: An Integrated Approach is the first book to look at the imminent threats to sustainable food security through a cross-sectoral lens. As the world faces food supply challenges posed by the declining growth rate of agricultural productivity, accelerated deterioration of quantity and quality of natural resources that underpin agricultural production, climate change, and hunger, poverty and malnutrition, a multi-faced understanding is key to identifying practical solutions. This book gives stakeholders a common vision, concept and methods that are based on proven and widely agreed strategies for continuous improvement in sustainability at different scales. While information on policies and technologies that would enhance productivity and sustainability of individual agricultural sectors is available to some extent, literature is practically devoid of information and experiences for countries and communities considering a comprehensive approach (cross-sectoral policies, strategies and technologies)

to SFA. This book is the first effort to fill this gap, providing information on proven options for enhancing productivity, profitability, equity and environmental sustainability of individual sectors and, in addition, how to identify opportunities and actions for exploiting cross-sectoral synergies. Provides proven options of integrated technologies and policies, helping new programs identify appropriate existing programs Presents mechanisms/tools for balancing trade-offs and proposes indicators to facilitate decision-making and progress measurement Positions a comprehensive and informed review of issues in one place for effective education, comparison and evaluation

Life Cycle Assessment in the Agri-food Sector Nov 07 2021 The book presents an overview of the International practices and state-of-the-art of LCA studies in the agri-food sector, both in terms of adopted methodologies and application to particular products; the final purpose is to characterise and put order within the methodological issues connected to some important agri-food products (wine, olive oil, cereals and derived products, meat and fruit) and also defining practical guidelines for the implementation of LCAs in this particular sector. The first chapter entails an overview of the application of LCA to the food sector, the role of the different actors of the food supply chain and the methodological issues at a general level. The other chapters, each with a particular reference to the main foods of the five sectors under study, have a common structure which entails the review of LCA case studies of such agri-food products, the methodological issues, the ways with which they have been faced and the suggestion of practical guidelines.

*Agri-food Chain Relationships* Dec 08 2021 Against the background of global market liberalization, increasing consumer awareness and concerns and the spreading of complex technology, new ways to produce, distribute and consume food are evolving. The organization of agricultural production and distribution systems need to adapt, including the development and maintenance of sustainable business relationships between farmers, food processors and grocery retailers. While agricultural value chains have been promoted for decades, more attention is needed on how to enable economic agents to develop lasting relationships and trust within value chains. Using qualitative and quantitative empirical results, *Agri-food Chain Relationships* offers an insight into the sustainability of current agribusiness relationships and discusses how these may be improved. Theoretical foundations for analysing agri-food chain relations are considered alongside case studies of different countries, food chains and chain stages regarding the issues of sustainable relationships and trust.

*Safety in the Agri-food Chain* Feb 27 2021 Increasing public demand for adequate and safe food supply has led to extensive development in the field of plant-animal production, food processing, quality and safety procedures, food analysis and control and regulations. However, safety of food can only be guaranteed by the integration of control systems in the complete food chain "from stable to table". This book covers the total agri-food chain. The first section includes a chapter giving a clear overview of the food production chain, followed by chapters about distinct safety risk factors (biological, chemical, physical and others) occurring in the agri-food chain. The third section deals with various systems to handle these risk factors. It includes a chapter on the various quality assurance systems, a detailed chapter on HACCP, as well as on risk management, modelling of safety, and tracking and tracing. The last section includes chapters on the different stakeholders (consumer, legislation, ethics) that are concerned with food safety. The book is aimed at supporting educational programmes on safety in agri-food chains in higher education and at the academic level. It can also be used as a handbook in food industry and agri-business.

How is Digitalization Affecting Agri-food? Feb 22 2023 Using real cases of food firms and



agriculture supply chains as a context, *How is Digitalization Affecting Agri-food? New Business Models, Strategies and Organizational Forms* aims to understand the key themes in strategic and organizational research in this area. Despite the importance of food and agriculture in the current political and societal context, analysis of the impact of digitalization and information technologies on the industry is still limited. The objective of this monograph is to understand the direction of this change. With case studies of food firms and agriculture supply chains it sets out to conceptualize food organizing and organizations as a fruitful object of inquiry, both at the intra and interorganizational levels. It aims to understand new business models, strategies and organizational forms. Contributions in this stream of research have the potential to yield important and relevant insights for both scholars and societies. This book is written primarily for academics engaged in innovation management or strategy, or conducting organizational behaviour research. It will also be of relevance to practitioners and managers in the agri-food industry.

**Rethinking Food and Agriculture** Feb 10 2022 Given the central role of the food and agriculture system in driving so many of the connected ecological, social and economic threats and challenges we currently face, *Rethinking Food and Agriculture* reviews, reassesses and reimagines the current food and agriculture system and the narrow paradigm in which it operates. *Rethinking Food and Agriculture* explores and uncovers some of the key historical, ethical, economic, social, cultural, political, and structural drivers and root causes of unsustainability, degradation of the agricultural environment, destruction of nature, shortcomings in science and knowledge systems, inequality, hunger and food insecurity, and disharmony. It reviews efforts towards 'sustainable development', and reassesses whether these efforts have been implemented with adequate responsibility, acceptable societal and environmental costs and optimal engagement to secure sustainability, equity and justice. The book highlights the many ways that farmers and their communities, civil society groups, social movements, development experts, scientists and others have been raising awareness of these issues, implementing solutions and forging 'new ways forward', for example towards paradigms of agriculture, natural resource management and human nutrition which are more sustainable and just. *Rethinking Food and Agriculture* proposes ways to move beyond the current limited view of agro-ecological sustainability towards overall sustainability of the food and agriculture system based on the principle of 'inclusive responsibility'. Inclusive responsibility encourages ecosystem sustainability based on agro-ecological and planetary limits to sustainable resource use for production and livelihoods. Inclusive responsibility also places importance on quality of life, pluralism, equity and justice for all and emphasises the health, well-being, sovereignty, dignity and rights of producers, consumers and other stakeholders, as well as of nonhuman animals and the natural world. Explores some of the key drivers and root causes of unsustainability, degradation of the agricultural environment and destruction of nature Highlights the many ways that different stakeholders have been forging 'new ways forward' towards alternative paradigms of agriculture, human nutrition and political economy, which are more sustainable and just Proposes ways to move beyond the current unsustainable exploitation of natural resources towards agroecological sustainability and overall sustainability of the food and agriculture system based on 'inclusive responsibility'

**The Neoliberal Regime in the Agri-Food Sector** Jun 02 2021 For the last three decades, the Neoliberal regime, emphasising economic growth through deregulation, market integration, expansion of the private sector, and contraction of the welfare state has shaped production and consumption processes in agriculture and food. These institutional arrangements emerged from and advanced academic and popular beliefs about the virtues of private, market-based coordination relative to public, state-based problem solving. This book

presents an informed, constructive dialogue around the thesis that the Neoliberal mode of governance has reached some institutional and material limits. Is Neoliberalism exhausted? How should we understand crisis applied to Neoliberalism? What are the opportunities and risks linked to the construction of alternatives? The book advances a critical evaluation of the evidence supporting claims of rupture of, or incursions into, the Neoliberal model. It also analyzes pragmatic responses to these critiques including policy initiatives, social mobilization and experimentation at various scales and points of entry. The book surveys and synthesizes a range of sociological frames designed to grapple with the concepts of regimes, systemic crisis and transitions. Contributions include historical analysis, comparative analysis and case studies of food and agriculture from around the globe. These highlight particular aspects of crisis and responses, including the potential for continued resilience, a neo-productivist return, as well as the emergence and scaling up of alternative models.

Sustainability of European Food Quality Schemes Nov 14 2019 This edited volume evaluates recent EU quality policy, focusing on the structure, governance, technical specifications and performances – economic, environmental and social – of Food Quality Schemes (FQS) in the European Union and South East Asia. The intended benefits of FQS include generating a fair return for farmers and producers, and enabling consumers to make better informed purchasing choices through effective labeling. In addition, policy makers now consider FQS as a means of guaranteeing not only quality in food production, but also sustainability. Despite these potential benefits, the economic performance of the FQS (e.g. PDO, PGI, organic) has been variable. While some support significant value added production, with substantial benefits to producers, consumers and wider economies, many others have failed to become economically sustainable. In addition, the environmental and social performance of FQS remains largely unexamined, with the exception of the environmental performance of organic products. The editors examine these discrepancies and offer a nuanced evaluation of the effectiveness of such policies. Several unique features make this volume a key resource for those interested in FQS and in the sustainability of food products. The editors provide a concise description of the value chain, the governance and the technical specifications of 27 FQS in Europe and South East Asia. The editors also provide a sustainability assessment of each of these FQS, and support or question the view that FQS are moving from “quality” to “sustainability.” Finally, the volume serves as a repository of key data on these FQS. Readers have access to the raw data necessary to compute the indicators used in the sustainability assessment (eg. value added, number of jobs, quantity of fertilizers, etc), allowing them to conduct novel re-analysis. The book is designed for an interdisciplinary audience of academics, policy makers, and stakeholders. The compilation of FQS case studies makes it a useful reference for researchers and students of food policy, geography, food anthropology, local and rural development, local agri-food systems and agri-food chains. Stakeholders such as national and European regulators, entities responsible for FQS technical specifications, and embassy staff will also find the information relevant. Additionally, individuals helping to implement food quality schemes, including auditors, producers, and consumer associates, as well as stakeholders in the sustainability of food products, including farmers, farmer's associations, and environmental NGOs, will also find the information relevant and important for their work.

Report: Standing Committee on Agriculture and Agri-Food: Capturing the Advantage: Agricultural Biotechnology in the New Millennium Aug 24 2020

**Supermarkets and Agri-food Supply Chains** Jul 23 2020 This book analyses the gradual shift in the distribution of power in agri-food supply chains, away from the manufacturers of branded food products to the global supermarket chains such as Wal-Mart and Tesco. This

transformation has had a profound effect on the food we eat, together with the ways in which food is produced, processed and marketed. The authors assess the causes and consequences of this transformation, and evaluate the impacts along the whole supply chain. The book considers a variety of theoretical and cultural approaches to the analysis of change in the organization and management of the agri-food supply chain, and presents a series of studies focusing upon the effects of changes in Europe, North America and less developed countries. The impacts on farmers and workers, and implications for the environment, are also considered. The contested nature of these changes suggests a number of possible future scenarios for the global agri-food system, which are also analysed and evaluated. This book will be of great interest to postgraduate and undergraduate students in business studies, sociology, politics, geography, and cultural studies. Academic researchers and teachers, and policy makers and researchers in business, government and industry will also find much of interest.

**Managing Food Safety Risks in the Agri-Food Industries** Sep 17 2022 Modern farming practices involve more stakeholders in the supply chain, presenting issues of storage, transportation, and distribution prior to reaching the consumer. This increasing complexity in food production chains creates more points for introducing microorganism contamination of crops, livestock, and aquatic organisms. *Managing Food Safety Risks in the Agri-Food Industries* addresses existing and emerging risks in the primary agri-food sectors and discusses ways to manage, reduce, or prevent these risks from occurring. Following a short introduction, the authors examine the advantages and disadvantages of various food chain risk assessment tools. The book covers three primary production sectors—crops, terrestrial livestock, and aquaculture products—along with a chapter on game and wild fish catch. Under each sector, the book addresses the existing and emerging food safety risks, challenges, and intervention strategies. Each chapter focuses on microbiological and natural or man-made chemical hazards that occur at the farm level with potential to cross-contaminate or bioaccumulate. The book addresses horticulture crops and microbiological contaminants, food safety hazards and prevention strategies in beef, and milkborne outbreaks. It discusses *Campylobacter* and *Salmonella* risk in the broiler industry, and the prevalence of *Salmonella* in pig meat, risk factors, and intervention approaches. The book also covers potential parasites and diseases from game and exotic meat and microbiological and environmental contaminants in captured fish as well as in farmed fish and shellfish. The authors conclude with an exploration of how consumers and agri-food stakeholders perceive risk and the best means for communicating risk to the public.

**Agriculture & Food Systems To 2050: Global Trends, Challenges And Opportunities** Jan 29 2021 This book features a comprehensive foresight assessment, exploring the pressures — threats as well as opportunities — on the global agriculture & food systems between now and 2050. The overarching aim is to help readers understand the context, by analyzing global trends and anticipating change for better planning and constructing pathways from the present to the future by focusing on the right questions and problems. The book contextualizes the role of international agricultural research in addressing the complex challenges posed by UN 2030 Agenda and beyond, and identifies the decisions that scientific leaders, donors and policy makers need to take today, and in the years ahead, to ensure that a global population rising to nine billion or more combined with rising incomes and changing diets can be fed sustainably and equitably, in the face of the growing climate threats.

**Hungry for Disruption** Jan 21 2023

**Resistance to the Neoliberal Agri-Food Regime** Oct 26 2020 This volume explores the contents, forms, and actors that characterize current opposition to the corporate neoliberal

agri-food regime. Designed to generate a coherent, informed and updated analysis of resistance in agri-food, empirical and theoretical contributions analyze the relationship between expressions of the neoliberal corporate system and various projects of opposition. Contributions included in the volume probe established forms and rationales of resistance including civic agriculture, consumer- and community-based initiatives, labor, cooperative and gender-based protest, struggles in opposition to land grabbing and mobilization of environmental science and ecological resistance. The core contribution of the volume is to theorize and to empirically assess the limits and contradictions that characterize these forms of resistance. In particular, the hegemonic role of the neoliberal ideology and the ways in which it has 'captured' processes of resistance are illustrated. Through the exploration of the tension between legitimate calls for emancipation and the dominant power of Neoliberalism, the book contributes to the ongoing debate on the strengths and limits of Neoliberalism in agri-food. It also engages critically with the outputs and potential outcomes of established and emerging resistance movements, practices, and concepts.

**Biotechnology for Zero Waste** May 01 2021 Biotechnology for Zero Waste The use of biotechnology to minimize waste and maximize resource valorization In Biotechnology for Zero Waste: Emerging Waste Management Techniques, accomplished environmental researchers Drs. Chaudhery Mustansar Hussain and Ravi Kumar Kadeppagari deliver a robust exploration of the role of biotechnology in reducing waste and creating a zero-waste environment. The editors provide resources covering perspectives in waste management like anaerobic co-digestion, integrated biosystems, immobilized enzymes, zero waste biorefineries, microbial fuel cell technology, membrane bioreactors, nano biomaterials, and more. Ideal for sustainability professionals, this book comprehensively sums up the state-of-the-art biotechnologies powering the latest advances in zero-waste strategies. The renowned contributors address topics like bioconversion and biotransformation and detail the concept of the circular economy. Biotechnology for Zero Waste effectively guides readers on the path to creating sustainable products from waste. The book also includes: A thorough introduction to modern perspectives on zero waste drives, including anaerobic co-digestion as a smart approach for enhancing biogas production Comprehensive explorations of bioremediation for zero waste, biological degradation systems, and bioleaching and biosorption of waste Practical discussions of bioreactors for zero waste and waste2energy with biotechnology An in-depth examination of emerging technologies, including nanobiotechnology for zero waste and the economics and commercialization of zero waste biotechnologies Perfect for process engineers, natural products, environmental, soil, and inorganic chemists, Biotechnology for Zero Waste: Emerging Waste Management Techniques will also earn a place in the libraries of food technologists, biotechnologists, agricultural scientists, and microbiologists.

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