

Defending Beef The Case For Sustainable Meat Production

Sustainable Meat Production and ProcessingDefending BeefImpact of Meat Consumption on Health and Environmental SustainabilityThe New Meatways and SustainabilityReview and Analysis of Studies on Sustainability of Cultured MeatThe Meat CrisisThe Meat CrisisGreen Meat?Organic Meat Production and ProcessingGlobal MeatMajor Achievements in Victoria's Meat IndustrySustainable Transition of Meat and Cured Meat Supply ChainClean MeatHigh SteaksWildlife Production--conservation and Sustainable DevelopmentSustainable Protein Production and Consumption: Pigs or Peas?Impact of Meat Consumption on Health and Environmental SustainabilityLivestock Production and Health for Sustainable Agriculture and Rural DevelopmentDevelopment of Sustainable Production and Utilization of Major Food Resources in ChinaPolitical Ecologies of Meat *Charis M. Galanakis Nicolette Hahn Niman Raphaely, Talia Minna Kanerva Iris Vural Gursel Joyce D'Silva Joyce D'Silva Ryan M. Katz-Rosene Steven C. Ricke Bill Winders Victoria. Dept. of Natural Resources and Environment Anna Maria Fellegara Paul Shapiro Eleanor Boyle Lyle A. Renecker Harry Aiking Osamu Koyama Jody Emel*

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sustainable meat production and processing presents current solutions to promote industrial sustainability and best practices in meat production from postharvest to consumption the book acts as a guide for meat and animal scientists technologists engineers professionals and producers the 12 most trending topics of sustainable meat processing and meat by products management are included as are advances in ingredient and processing systems for meat products techno functional ingredients for meat products protein recovery from meat processing by products applications of blood proteins artificial meat production possible uses of processed slaughter co products and environmental considerations finally the book covers the preferred technologies for sustainable meat production natural antioxidants as additives in meat products and facilitators and barriers for foods containing meat co products analyzes the role of novel technologies for sustainable meat processing covers how to maintain sustainability and achieve high levels of meat quality and safety presents solutions to improve productivity and environmental sustainability takes a proteomic approach to characterize the biochemistry of meat quality defects

in defending beef longtime vegetarian environmental lawyer turned rancher nicolette hahn niman dispels popular myths about how eating beef is bad for our bodies and planet grounded in empirical scientific data and with living examples from around the world hahn niman builds a comprehensive argument that cattle can help build carbon sequestering soils to mitigate climate change enhance biodiversity prevent desertification and provide invaluable nutrition while no single book can definitively answer the thorny question of how to feed the earth s growing population defending beef makes the case that whatever the world s future food system looks like cattle and beef can and must be part of the solution back cover

this reference book is an igi global core reference for 2019 as it one of the best selling within the environmental agricultural and physical sciences subject area since 2015 winning the best in the world and best sustainable food book from the gourmand awards this title focuses on high quality research in developing a food culture that mitigates human and environmental damage featuring research on trending topics such as limiting meat consumption trade and the meat industry ethics of meat production and consumption and more this publication contains

research that has been contributed by industry leading experts across australia u s uk and more making it a critical resource for policymakers academicians researchers advanced level students technology developers and government officials impact of meat consumption on health and environmental sustainability addresses the difficulties challenges and opportunities in reducing excessive meat consumption in order to mitigate human and environmental damage policymakers academicians researchers advanced level students technology developers and government officials will find this text useful in furthering their research exposure to pertinent topics such as dietary recommendations for limiting meat consumption trade and the meat industry ethics of meat production and consumption and the environmental impacts of meat consumption

social practice theories help to challenge the often hidden paradigms worldviews and values at the basis of many unsustainable practices discourses and their boundaries define what is seen as possible as well as the range of issues and their solutions by exploring the connections between practices and discourses minna kanerva develops a conceptual approach enabling purposive change in unsustainable social practices radical transformation towards new meatways is arguably necessary yet complex psychological ideological and power related mechanisms currently inhibit change

protein alternatives are crucial for a sustainable food production in future cultured meat is presented as a good alternative for consumers who want to be more sustainable but do not wish to change their diet to validate this sustainability claim this report evaluates four lca studies on cultured meat when comparing overall environmental impact of cultured meat with conventional meat products and other meat substitutes cultured meat was seen to perform significantly better than beef favourable to pork similar to chicken and worse than plant based alternatives considering current global average production impacts it is important to realize that currently no commercial scale cultured meat facility is operational all lca studies modelled a future facility extrapolating scientific and small scale facilities differences in system boundaries lead to high variability of environmental impact results for cultured meat among reviewed studies the lca system boundaries mostly include the cultivation related processes while product formulation and distribution are not taken into account an important technical bottleneck that is not addressed are the large volumes of the fermenters and the extended cultivation times which will need extraordinary sterility measures the lca overview shows that cultured meat production is energy intensive and that energy consumption have the highest contribution in the overall

impact next growth medium production showed significant contribution to impact especially the amino acid production and recombinant protein production for growth factors sensitivity analysis of model parameters showed that parameter choices on cell density and medium use impacted the results most technically the cultured meat industry is still very much in development obvious improvements that are needed are the reduction in energy development of scaffolds and lower medium cost specifically in developing cheaper plant based growth factors that are non gmo also product development is in its infancy cultured meat is part of a movement towards more sustainable meat alternatives that also includes plant based alternatives insects and microbial protein these sources should not be regarded as competition but as complementary products that target different types of consumers in combination with other meat alternatives cultured meat can lead to reduced production and consumption of conventional meat

meat and dairy production and consumption are in crisis globally 70 billion farm animals are used for food production every year it is well accepted that livestock production is a major contributor to greenhouse gas emissions the food and agriculture organization of the united nations fao predicts a rough doubling of meat and milk consumption in the first half of the 21st century with particularly rapid growth occurring in the developing economies of asia what will this mean for the health and wellbeing of those animals of the people who consume ever larger quantities of animal products and for the health of the planet itself the new edition of this powerful and challenging book explores the impacts of the global growth in the production and consumption of meat and dairy including cultural and health factors and the implications of the likely intensification of farming for both small scale producers and for animals several chapters explore the related environmental issues from resource use of water cereals and soya to the impact of livestock production on global warming and issues concerning biodiversity land use and the impacts of different farming systems on the environment a final group of chapters addresses ethical and policy implications for the future of food and livestock production and consumption since the first edition published in 2010 all chapters have been updated three original chapters re written and six new chapters added with additional coverage of dietary effects of milk and meat antibiotics in animal production and the economic political and ethical dimensions of meat consumption the overall message is clearly that we must eat less meat to help secure a more sustainable and equitable world

this book contains truths too important to dismiss too frightening to ignore joanna lumely actor and campaigner

green meat takes a multifaceted approach to the issues of industrialized agricultural production and its relationship to climate change it argues that one singular solution to this problem would undermine the myriad of ways that meat is consumed across regional and cultural lines although meat may always be a global staple of the human diet it is not too late to re examine current food systems through the framework of sustainability and ecological prosperity alternatives journal

organic meat production and processing describes the challenges of production processing and food safety of organic meat the editors and international collection of authors explore the trends in organic meats and how the meat industry is impacted commencing with chapters on the economics market and regulatory aspects of organic meats coverage then extends to management issues for organically raised and processed meat animals processing sensory and human health aspects are covered in detail as are the incidences of foodborne pathogens in organic beef swine poultry and other organic meat species the book concludes by describing pre harvest control measures for assuring the safety of organic meats organic meat production and processing serves as a unique resource for fully understanding the current and potential issues associated with organic meats

the growth of the global meat industry and the implications for climate change food insecurity workers rights the treatment of animals and other issues global meat production and consumption have risen sharply and steadily over the past five decades with per capita meat consumption almost doubling since 1960 the expanding global meat industry meanwhile driven by new trade policies and fueled by government subsidies is dominated by just a few corporate giants industrial farming the intensive production of animals and fish has spread across the globe millions of acres of land are now used for pastures feed crops and animal waste reservoirs drawing on concrete examples the contributors to global meat explore the implications of the rise of a global meat industry for a range of social and environmental issues including climate change clean water supplies hunger workers rights and the treatment of animals three themes emerge from their discussions the role of government and corporations in shaping the structure of the global meat industry the paradox of simultaneous rising meat

production and greater food insecurity and the industry's contribution to social and environmental injustice contributors address such specific topics as the dramatic increase in pork production and consumption in china land management by small scale cattle farmers in the amazon the effect on the climate of rising greenhouse gas emissions from cattle raised for meat and the tensions between economic development and animal welfare contributors conner bailey robert m chiles celize christy riva c h denny carrie freshour philip h howard elizabeth ransom tom rudel mindi schneider nhuong tran bill winders

this edited volume provides an innovative perspective on the future of food systems the contributors analyse relevant issues for a sustainable and responsible food consumption and cover fundamental steps for a broader approach to the sustainability of meat based products the book presents several issues and solutions to engage food firms in a measurable ecological transition topics discussed include not only the pedagogical perspective on sustainable food consumption the evolution of meat based food production systems and the animal welfare perspective but also the adaptation of firm's strategies to the sustainable transition the effects of climate change on agri food firms governance structures and the evolution of consumers perceptions on meat based products and the role of csr labels this book targets managers and entrepreneurs who work in the meat industry and are seeking to improve their socio environmental performance and governance accountants that works at the production of sustainability reports for food companies researchers working at the cutting edge of the food and environmental fields professionals working in the meat industry and researchers interested in the investigation of novelties in european food regulation

paul shapiro gives you a captivating john mackey former ceo of whole foods market front row seat for the race to create and commercialize cleaner safer sustainable meat real meat without the animals since the dawn of homo sapiens some quarter million years ago animals have satiated our species desire for meat but with a growing global population and demand for meat eggs dairy leather and more raising such massive numbers of farm animals is woefully inefficient and takes an enormous toll on the planet public health and certainly the animals themselves but what if we could have our meat and eat it too the next great scientific revolution is underway a future where the cellular agricultural revolution helps lower rates of foodborne illness greatly improves environmental sustainability and allows us to continue to enjoy

the food we love kathleen sebelius former us secretary of health and human services enter clean meat real actual meat grown or brewed from animal cells as well as other clean foods that ditch animal cells altogether and are simply built from the molecule up whereas our ancestors domesticated wild animals into livestock today we're beginning to domesticate their cells leaving the animals out of the equation from one single cell of a cow you could feed an entire village and in this important book that could just save your life michael greger md author of how not to die the story of this coming second domestication is anything but tame

each year the average north american ingests well over two hundred pounds of animal protein meanwhile the global appetite for meat has increased dramatically but feeding our meat addiction comes at tremendous cost maintaining our current level of consumption is ecologically impossible in the longterm and undermines our personal health and community well being high steaks documents the disastrous consequences of modern large scale industrial meat production and excessive consumption including the loss of vast tracts of arable land and fresh water to intensive livestock production increased pollution loss of biodiversity deforestation and accelerating climate change the environmental and health impacts of too much animal fat and of antibiotics and other chemicals in our food timely and compelling this powerful book offers a modest commonsense approach to a serious problem suggesting strategies for all of us to cut back on our consumption of animal products and ensure that the meat we do consume is produced in a sustainable ecologically responsible manner at the same time high steaks describes progressive food policy shifts that will discourage factory farming and encourage people to eat in ways that support ecosystems and personal health eleanor boyle has been teaching and writing for twenty five years with a focus on food systems and their social environmental and health consequences as well as working with organizations aiming for better food policy she holds an msc in food policy and is an instructor at the centre for sustainability at the university of british columbia

sustainable protein production and consumption pigs or peas is a book that presents and explores the profetas programme for development of a more sustainable food system by studying the feasibility of substituting meat with plant based alternatives the emphasis is on improving the food system by reducing the use of energy land and freshwater at the same time limiting the impacts on health and animal welfare associated with intensive livestock production it is clear that such a new perspective calls not only for advanced environmental and technological research

but also for in depth societal research as the acceptance of new food systems is critically contingent on perceptions and attitudes of modern consumers in this unique multidisciplinary setting profetas has opened up pathways for a major transition in protein food production and consumption not by just analyzing the food chain but rather by exploring the entire agricultural system including biomass for energy production and the use of increasingly scarce freshwater resources the study presented here is intended to benefit every stakeholder in the food chain from policymakers to consumers and it offers guiding principles for a transition towards an ecologically and socially sustainable food system from a multi level perspective

this book addresses the difficulties challenges and opportunities in reducing excessive meat consumption in order to mitigate human and environmental damage

food policy structural change in agriculture and analysis of food supply and demand trends in selected regions development of a method to analyze agro environmental changes inthe typical foodcrop production area using geographic informations sysystem gis impact of new technologies on regional and farms economics evaluation of rice genetic resources development of novel rice breeding materials and their effective utilization varietal resistance to whitebacked planthopper in chinese japnica rice evaluation and utilization of soybean genetic resources in northeast china and development of novel soybean breeding materials using new technology evaluation and development of methods for sustainable agriculture and environmental conservation development of technologies for food processing and distribution development of techniques for producing animal feed from corn plants and their by products development of utilization technology of freshwater fisheries resources

livestock production worldwide is increasing rapidly in part due to economic growth and demand for meat in industrializing countries yet there are many concerns about the sustainability of increased meat production and consumption from perspectives including human health animal welfare climate change and environmental pollution this book tackles the key issues of contemporary meat production and consumption through a lens of political ecology which emphasizes the power relations producing particular social economic and cultural interactions with non human

nature three main topics are addressed the political ecology of global livestock production trends changes in production systems around the world and their implications for environmental justice and existing and emerging governance strategies for meat production and consumption systems and their implications case studies of different systems at varying scales are included drawn from asia africa the americas and europe the book includes an editorial introduction to set the context and synthesize key messages for the reader

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