

Defending Beef The Case For Sustainable Meat Production

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The Ethical Omnivore
Good Meat
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Strategies for Sustainable Animal Agriculture in Developing Countries
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Livestock Production and Health for Sustainable Agriculture and Rural Development
Review and Analysis of Studies on Sustainability of Cultured Meat
The Sustainable Plate: Unveiling the Science of Meat Substitutes and Impact on Global Health
Food Choice and Sustainability
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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

nicolette hahn niman sets out to debunk just about everything you think you know she's not trying to change your mind she's trying to save your world los angeles times elegant strongly argued the atlantic named a best food book as the meat industry from small scale ranchers and butchers to sprawling slaughterhouse operators responds to covid 19 the climate threat and the rise of plant based meats defending beef delivers a passionate argument for responsible meat production and consumption in an updated and expanded new edition for decades it has been nearly universal dogma among environmentalists that many forms of livestock goats sheep and others but especially cattle are public enemy number one they erode soils pollute air and water damage riparian areas and decimate wildlife populations as recently as 2019 a widely circulated green new deal fact sheet even highlighted the problem of farting cows but is the matter really so clear cut hardly in defending beef second edition environmental lawyer turned rancher nicolette hahn niman argues that cattle are not inherently bad for the earth the impact of grazing can be either negative or positive depending on how livestock are managed in fact with proper oversight livestock can play an essential role in maintaining grassland ecosystems by performing the same functions as the natural herbivores that once roamed and grazed there with more public discussions and media being paid to connections between health and diet food and climate and climate and farming especially cattle farming defending beef has never been more timely and in this newly revised and updated edition the author also addresses the explosion in popularity of fake meat both highly processed plant based foods and meat grown from cells in a lab rather than on the hoof defending beef is simultaneously a book about big issues and the personal journey of the author who continues to fight for animal welfare and good science hahn niman shows how dispersed grass based smaller scale farms can and should become the basis of american food production creating healthful delicious food in ecological balance is among humanity's greatest challenges in this insightful book nicolette hahn niman shows why cattle on grass are an essential element every chef in america should read this book alice waters founder owner chez panisse and author of we are what we eat nicolette hahn niman just became beef's most articulate advocate in defending beef she pivots gracefully between the personal and the scientific the impassioned and the evenhanded it's a deeply compelling and delicious vision for the future of food dan barber author of the third plate

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

heartfelt and wonderfully written this is the kind of cookbook only butchers who think we should eat less meat could write matthew evans i can't recommend this book highly enough science focused but with a contagiously energetic optimism it's the antidote to despair we so desperately need read it give it to your friends then cook for them with whole natural food we can start repairing our land

and nourishing our souls by dinner time charlotte wood we live in an affluent era marked by an increasingly fraught relationship to food and meat is arguably the most controversial ingredient there is a communal ache for authenticity for a way forward with good conscience the ethical omnivore explores the solution living with a conscience asking the right questions of whomever sells you meat or of the labels you read and learning how to respect the animal so much that you're willing to cook something other than chicken breast this book traces how animals can be raised ethically and demonstrates some ways regenerative farmers are outstanding in how they care for their animals it offers tried and tested recipes from the feather and bone community from simple and easy weeknight meals to slow roasts for special occasions and it shows all of us how to live with less impact on the animals and environment that support us the ethical omnivore is a user friendly recipe and handbook that will open your eyes to a better way to buy cook and eat

this work is an exploration of the difficult environmental and ethical issues that surround the human consumption of animal flesh the world's meat consumption is rapidly rising leading to devastating environmental impacts as well as having long term health implications for societies everywhere the author lays out the reasons why we must decrease the amount of meat we eat both for the planet and for ourselves he argues however that the farming of animals for consumption has become problematic because we have removed ourselves physically and spiritually from the land our society needs to reorientate itself back to the land and the author explains why an agriculture that is most readily able to achieve this is one that includes a measure of livestock farming from publisher

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

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

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

consumers attention to food safety issues and environmental issues has increased overwhelmingly in recent decades because of their increased concern about their own health the environment s health and the crises and emergencies reported worldwide once the only option organic agriculture has always been a production option followed by at least a few farmers all over the world these farmers were prompted by ethical and environmental motivations as well as by committed consumers who supported organic agriculture thanks to a separate but fairly elitist distribution channel organic food now has become a viable alternative for an increasing number of consumers that are worried about the presence of chemicals residues and the negative consequences on the environment caused by intensive production methods many farmers also now see organic farming as a way to stabilize or even increase their income due to public policy support and growing market demand organic food consumers choices and farmers opportunities gives an overview of the organic sector both in italy and in the united states and demonstrates how agricultural economists are performing analyses dealing with organic produce on different points in the supply chain it discusses economic issues raised by organic farming and takes into account both the consumer s needs and the managerial and budget constraints experienced by the farmers also farm management methodologies and marketing analyses are used with specific research topics involving several industries in the agri food sector

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 popula tion 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 domestica tion is anything but tame

there are various innovations and new technologies being produced in the energy transportation and building industries to combat climate change and improve environmental performance but another way to combat this is examining the world s food resources currently there are global challenges associated with livestock and meat consumption giving way to resource scarcity and the inability to sustain animal agriculture environmental health and business opportunities in the new meat alternatives market is a pivotal reference source that provides vital research on the development of plant based foods and nutritional outcomes through analyzing innovative and disruptive trends in

the food industry it presents opportunities utilizing meat alternatives to create a more engaged consumer a stronger economy and a better environment highlighting topics such as meat consumption nutrition health and gender perspectives this book is ideally designed for policymakers economists health professionals nutritionists technology developers academicians and graduate level students

the meat of wild species referred to in this report as wild meat is an essential source of protein and a generator of income for millions of forest living communities in tropical and subtropical regions however unsustainable harvest rates currently

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 substitutes and alternative meats including those made from plants or produced in a lab reduce the consumption of environmental resources and the production of greenhouse gases these substitutes are gaining popularity in the sustainable diets of people worldwide with recent reports illustrating that the meat substitute market has grown significantly to a value of 10 billion experts predict that this market will continue to expand at a 42.1% cagr through 2030 however these alternatives are too new to global plates with little or unknown health or environmental outcomes some plant based meat options made from ingredients like soy peas and wheat offer a meat like texture but often contain excessive amounts of artificial ingredients white sugar salt and trans fats added during processing that are unhealthy and may lead to non communicable diseases on the other hand lab grown or cultured meats could have a global warming potential of 80% lower than traditional

beef production additionally lab grown meat s health effects have yet to be evaluated as meat substitutes continue to gain popularity worldwide it is crucial to examine their potential to promote global food security and sustainability while maintaining positive health outcomes it is imperative to comprehend the makeup health effects and environmental impact of alternative meats which are becoming increasingly popular as potential food for the future this information is crucial for promoting sustainable food systems and healthier diets as well as addressing global health concerns and environmental challenges the sustainable plate unveiling the science of meat substitutes and impact on global health aims to critically discuss the scope of alternative meats to meet global food security nutritional adequacy and environmental sustainability the book investigates the scientific basis and progress of meat substitutes analyzing their capacity as an eco friendly substitute for traditional meat and their influence on worldwide health results detailed information on nutritional composition taste texture and technological innovations of meat substitutes are presented plus the worldwide health effects of integrating meat substitutes into sustainable food systems and place these substitutes suitably on the global diet plate

food choice and sustainability tackles the critical issue of the global depletion of our natural resources drawing attention to what might seem an unlikely spot our dinner plates

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