

Tomoko M. Nakanishi · Martin O`Brien
Keitaro Tanoi *Editors*

Agricultural Implications of the Fukushima Nuclear Accident (III)

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Agricultural Implications Of The Fukushima Nuclear Accident

**Tomoko M. Nakanishi, Martin
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Agricultural Implications Of The Fukushima Nuclear Accident:

Agricultural Implications of the Fukushima Nuclear Accident (III) Tomoko M. Nakanishi, Martin O'Brien, Keitaro Tanoi, 2019-01-30 This open access book presents the findings from on site research into radioactive cesium contamination in various agricultural systems affected by the Fukushima Daiichi Nuclear Power Plant accident in March 2011 This third volume in the series reports on studies undertaken at contaminated sites such as farmland forests and marine and freshwater environments with a particular focus on livestock wild plants and mushrooms crops and marine products in those environments It also provides additional data collected in the subsequent years to show how the radioactivity levels in agricultural products and their growing environments have changed with time and the route by which radioactive materials entered agricultural products as well as their movement between different components e g soil water and trees within an environmental system e g forests The book covers various topics including radioactivity testing of food products decontamination trials for rice and livestock production the state of contamination in trees mushrooms and timber the dynamics of radioactivity distribution in paddy fields and upland forests damage incurred by the forestry and fishery industries and the change in consumers attitudes Chapter 19 introduces a real time radioisotope imaging system a pioneering technique to visualize the movement of cesium in soil and in plants This is the only book to provide systematic data on the actual change of radioactivity and as such is of great value to all researchers who wish to understand the effect of radioactive fallout on agriculture In addition it helps the general public to better understand the issues of radio contamination in the environment The project is ongoing the research groups from the Graduate School of Agricultural and Life Sciences of The University of Tokyo continue their work in the field to further evaluate the long term effects of the Fukushima accident

Agricultural Implications of the Fukushima Nuclear Accident (III) Tomoko M. Nakanishi, Martin O'Brien, Keitaro Tanoi, 2019 This open access book presents the findings from on site research into radioactive cesium contamination in various agricultural systems affected by the Fukushima Daiichi Nuclear Power Plant accident in March 2011 This third volume in the series reports on studies undertaken at contaminated sites such as farmland forests and marine and freshwater environments with a particular focus on livestock wild plants and mushrooms crops and marine products in those environments It also provides additional data collected in the subsequent years to show how the radioactivity levels in agricultural products and their growing environments have changed with time and the route by which radioactive materials entered agricultural products as well as their movement between different components e g soil water and trees within an environmental system e g forests The book covers various topics including radioactivity testing of food products decontamination trials for rice and livestock production the state of contamination in trees mushrooms and timber the dynamics of radioactivity distribution in paddy fields and upland forests damage incurred by the forestry and fishery industries and the change in consumers attitudes Chapter 19 introduces a real time radioisotope imaging system a

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Agricultural Implications of the Fukushima Nuclear Accident Tomoko M. Nakanishi, Keitaro Tanoi, 2013-04-30 Agricultural Implications of Fukushima Nuclear Accident (IV) Tomoko M. Nakanishi, Keitaro Tanoi, 2023-08-31 This open access book presents the findings from on site research into radioactive cesium contamination in various agricultural systems affected by the Fukushima Daiichi Nuclear Power Plant accident in March 2011 This fourth volume in the series reports on studies undertaken at contaminated sites such as farmland and forests focusing on soil water mountain agricultural products and animals It also provides additional data collected in the subsequent years to show how the radioactivity levels in agricultural products and their growing environments have changed with time and the route by which radioactive materials entered agricultural products as well as their movement between different components e g soil water and trees within an environmental system e g forests The book covers various topics including radioactivity testing of food products decontamination trials for rice and livestock production the state of contamination in trees mushrooms and timber the dynamics of radioactivity distribution in paddy fields and upland forests damage incurred by the forestry and fishery industries and the change in consumers attitudes In the series of this book a real time radioisotope imaging system has been introduced a pioneering technique to visualize the movement of cesium in soil and in plants This is the only book to provide systematic data on the actual change of radioactivity which is of great value to all researchers who wish to understand the effect of radioactive fallout on agriculture In addition it helps the general public better understand radio contamination issues in the environment The project is ongoing the research groups from the Graduate School of Agricultural and Life Sciences of The University of Tokyo continue their work in the field further to evaluate the long term effects of the Fukushima accident

Nuclear Emergencies Georg Steinhauser, Akio Koizumi, Katsumi Shozugawa, 2019-08-20 This book discusses nuclear events that may become imminent threats to the fabric of our society and elucidates strategies for preventing these threats or mitigating their adverse effects It addresses multidisciplinary aspects of various nuclear emergencies including nuclear accidents terror attacks involving nuclear materials illicit trafficking of nuclear materials and problems related to nuclear forensics and strikes with nuclear weapons warheads Very often nuclear emergencies are only discussed within certain specific communities However this volume brings together experts from various fields to provide a more holistic approach to the problem Physical chemical environmental social and medical scientists together with representatives from the media and authorities present their views on and strategies for events that cause fear and anxiety

among the public an aspect that can be even more threatening than the direct health effects The book offers a valuable guide for nuclear scientists such as radioecologists health physicists radioanalytical scientists and nuclear engineers as well as decision makers and national international authorities

Radiological Issues for Fukushima's Revitalized Future

Tomoyuki Takahashi, 2016-01-12 This book overviews environmental issues 4 years after the Fukushima nuclear accident covering a wide range of areas related to radiation and radioactivity The topics discussed are necessary to make clear the relationship between the results of research and Fukushima's revitalized future The chapters are divided into four parts Part 1 presents the identification of radionuclides in soil and migration of radionuclides in the terrestrial environment Part 2 describes the safety decontamination system and treatment of radioactive waste Part 3 explains the development of the system of measurement of environmental radiation and evaluation of external exposure and Part 4 discusses the identification of radionuclides in farm products control of root uptake identification of decreasing radionuclides by food processing and evaluation of internal exposure Since the accident at the Tokyo Electric Power Company's Fukushima Daiichi nuclear power station in 2011 gradual steps have been taken toward environmental recovery in the area However there are still many issues that need to be tackled in order to achieve the full revitalization of Fukushima These issues encompass many different disciplines such as economics psychology and sociology In this kind of situation the role of science in relation to radiation and radioactivity is especially important This book aims to contribute to planning countermeasures against nuclear disasters in the future It will be of particular interest to governmental officials who are engaged with the Fukushima nuclear accident researchers including those in international sectors who are interested in radiological issues and those who need comprehensive and reliable information about the Fukushima accident

Disaster, Diversity and Emergency

Preparation Leif Inge Magnussen, 2019-11-15 One of NATO's objectives is a better understanding of the human and social aspects of security related issues This book presents the proceedings of the NATO Science for Peace and Security Advanced Research Workshop ARW Leadership Development Programme on Gender and Diversity Peace Risk and Emergency Preparedness and Collaboration held in Trondheim Norway on 11-12 December 2018 one of the aims of which was to strengthen organizational leadership The workshop firmly established the collaboration between Japan and other NATO countries with regard to Women Peace and Security WPS The workshop gave the participating leaders and researchers an opportunity to meet and debate to learn and to build networks of leaders for change This book consists of fourteen chapters including a summarizing introductory chapter It explores topics related to the way in which continued progress and change in institutional behaviors require an approach focused on altering perspectives and enhancing the skill sets of leaders Each chapter stands alone but is ordered within the framework of the Societal Programme Model SPM described in Chapter 1 The book will be of interest to all those involved in building leadership and changing institutional behavior

Safety Protocols in

the Food Industry and Emerging Concerns Giovanni Gurnari, 2015-03-27 This brief reports about safety protocols in the food

producing industry Hygiene i e the prevention of contamination and microbial infections is of greatest importance in the industry as are disinfection techniques to prevent or to fight microbial contaminations and infections and practical emerging concerns are centered around these fundamental concerns The first part focuses on the attempts and possibilities to prevent microbial spreading Part II discusses disinfection techniques and their risks advantages and disadvantages Current industry trends such as the attempts to substitute chlorine in disinfection are critically reviewed In all this brief volume discusses decision procedures and strategies that are being applied to prevent reduce and fight microbial spreading In particular material that comes into contact with the foods has to fulfill strict requirements This aspect is explained in detail and how little details can have great effects The brief deals with the important question is disinfection more an ally or an enemy

Food Toxicology Ashish Sachan,Suzanne Hendrich,2017-12-01 This volume covers a selection of important research in the multifaceted field of food toxicology With more than seven billion people in the world today and counting advances in food toxicology have a direct bearing on food safety issues that are of concern to all humanity for the foreseeable future Massive globalization industrialization and commercialization have affected every aspect of food production the food supply chain and food consumption This informative volume offers the global perspectives of scientists in important areas related to biomarkers and nanosensors in food toxicology toxicology of nanomaterials chemicals in sanitation and packaging additives mycotoxins endocrine disruptors radionuclides toxic metals and waste burning residues in food The book also emphasizes regulatory toxicology and includes an interesting example case study The challenge of sustainable and safe food for everyone needs a multidisciplinary and multi sectorial approach from related industries and governments alike Food chemical safety is an underappreciated aspect of consumer safety and this volume seeks to help fill that gap by providing informative research for food scientists and researchers and many others

Radioactivity Michael Wiescher,2025-01-16 This book provides an accessible introduction to radioactivity The second in a two volume set this volume is presented in two parts covering its development and modern applications It first explores the development and applications of technically enhanced natural radioactivity TENR and addresses nuclear energy sources the fission and fusion processes and the issues of radioactive fallout from nuclear weapon use and test programs Later chapters explore the cutting edge medical applications of radioactive materials in diagnostics and therapy exploring nuclear medicine technologies such as x ray tomography brachytherapy and positron emission tomography PET They also detail the broad range of applications of radioactive materials in industrial production processes in the sterilization of tools and materials in the medical and the food industries and in the analysis of art and archaeological material to analyse paintings and painting techniques to identify fakes and forgeries The book concludes with a discussion of the societal impact and understanding of radioactivity alongside detailing the underlying reasons for its negative preconceptions and the possible mitigation of these through better education and information practices This book will be of interest to non science undergraduate and physics graduate students alike as well

as to interested lay people looking for an introduction to radioactivity Key Features Written in an accessible style to be understood by readers without a formal scientific education Highly illustrated throughout Authored by an expert in the field drawing from decades of experience in experimental nuclear physics Radioactivity - Two-Volume Set Michael Wiescher, 2025-02-28 The first volume is presented in two parts covering radiation physics and natural radiation exposure It first explores the discovery and physics of the phenomenon of radioactivity covering the discovery of radioactive decay and the historical development of the physics and applications of radioactivity through to 1940 Chapters then present descriptive summaries of the physics of the atom and the atomic nucleus mass and energy conditions the nature of isotopes and the different decay patterns Chapter three discusses decay laws and introduces natural origins of radioactivity as well as methods for producing radioactive isotopes through nuclear reaction processes in reactor and accelerator The book then provides an introduction on dosimetry radiation chemistry and impact of radiation on biological systems The second half of the book details natural radioactivity and the role of radioactivity in the formation of the planetary system and our Earth The author describes how the inner radioactivity of our planet determines its dynamics and how it could have contributed to the origins of life The volume concludes with an exploration of the external and internal radioactivity to which humans are exposed and their possible side effects The second volume is presented in two parts covering its development and modern applications It first explores the development and applications of technically enhanced natural radioactivity TENR and addresses nuclear energy sources the fission and fusion processes and the issues of radioactive fallout from nuclear weapon use and test programs Later chapters explore the cutting edge medical applications of radioactive materials in diagnostics and therapy exploring nuclear medicine technologies such as x ray tomography brachytherapy and positron emission tomography PET They also detail the broad range of applications of radioactive materials in industrial production processes in the sterilization of tools and materials in the medical and the food industries and in the analysis of art and archaeological material to analyse paintings and painting techniques to identify fakes and forgeries The book concludes with a discussion of the societal impact and understanding of radioactivity alongside detailing the underlying reasons for its negative preconceptions and the possible mitigation of these through better education and information practices These books will be of interest to non science undergraduates and nuclear astrophysics physics graduate students looking for an introduction to radioactivity in addition to interested laypeople Key Features Written in an accessible style to be understood by readers without a formal scientific education Highly illustrated throughout Authored by an expert in the field drawing from decades of experience in experimental nuclear physics **Novel Plant Imaging and Analysis** Tomoko M. Nakanishi, 2021-06-04 This open access book is only an introduction to show that radiation and radioisotopes RI are premier tools to study living plant physiology which leads to new findings Who had ever imagined that we could see water in a plant Who had ever imagined that we could see ions moving toward roots in solution Who had ever imagined that we could see invisible gas CO₂

fixation and movement in a plant These studies demonstrated for the first time that water ions and gas can be visualized in living plants which could be hardly seen by anyone before This publication summarizes the results obtained by Nakanishi s lab in The Univ of Tokyo based on her original concept and her original tools or systems It is useful for professional scientists plant physiologist and those studying plant imaging The chapters demonstrates the innovative imaging work of the author using radioactive tracers and neutron beam to follow the absorption and transport manner of water as well as major minor and trace elements in plants Through these studies the author developed a real time macroscopic and microscopic imaging system able to apply commercially available gamma and beta ray emitters The real time movement of the elements is now possible by using ^{14}C ^{18}F ^{22}Na ^{28}Mg ^{32}P ^{33}P ^{35}S ^{42}K ^{45}Ca ^{48}V ^{54}Mn ^{55}Fe ^{59}Fe ^{65}Zn ^{86}Rb ^{109}Cd and ^{137}Cs The imaging methods was applied to study the effect of ^{137}Cs following 3 11 Fukushima Daiichi nuclear plant accident which has revealed the movements of radiocesium in the contaminated sites

The Animal Microbiome in Health and Disease

Timothy J. Johnson,Paul Plummer,2020-07-29 *American Journal of Enology and Viticulture* ,2014 □□□□□□□□,2014

Agricultural Impact of the Great East Japan Earthquake - Six Years Later Hrabrin Bachev,Fusao Ito,2018-07-15

On March 11 2011 the strongest ever recorded in Japan earthquake occurred also known as the Great East Japan Earthquake which triggered a powerful tsunami and caused a nuclear accident in one of the world biggest nuclear power stations Fukushima Daichi More than six years after the triple disaster the overall impacts on Japanese agri food chains is far from being completely due to the scale of the disasters and the number of affected agents the effects multiplicities spillovers and long time horizon the constant evolution of the nuclear crisis the lack of full information and models of analysis etc This paper presents updates on the impacts of the March 2011 earthquake tsunami and Fukushima nuclear accident in Japan on country s agriculture and food sector First disaster events and their effects is outlined Second impact on farms and agricultural resources is estimated Third impact on food industries is assessed Next extend of radioactive contamination of agri food products is presented and effects on markets consumers and international trade evaluated Chapter summarises responses of different agents assesses progress and challenges in post disaster recovery and reconstruction and withdraw lessons from the Japanese experiences

Great East Japan Earthquake - Implications for Agriculture, Food Industries and Consumption Hrabrin Bachev,2018-07-15

On March 11 2011 the strongest ever recorded in Japan earthquake occurred which triggered a powerful tsunami and caused a nuclear accident in one of the world s largest nuclear plant stations The triple disaster has been having immense impacts on people s life health and property social infrastructure economy policies natural and institutional environment etc in the affected regions Japan and beyond This book tries to make a comprehensive assessment on the multiple impacts of the March 2011 Great East Japan Earthquake tsunami and Fukushima nuclear accident on the Japanese agriculture and food sector It identifies and evaluates radiation displacement health physiological production economic technological organizational environmental institutional political etc impacts of the

disasters in all stages inputs supply farming storage wholesaling transportation processing distribution retailing consumption and components natural resources labor biological and material assets intangibles technology production structure finance waste disposal information management of agri food chain and temporal immediate short term long term and spacial local regional national trans national scales It summarizes responses of individuals households farms businesses communities consumers stakeholders and authorities as well as assesses the progress and challenges in the post disaster recovery and reconstruction The book withdraws lessons from the Japanese experiences and suggests recommendations for effective risk management in Japan and around the globe The study is based on a wide range of information from governmental academic farmers industry international etc organizations media experts assessments and in deep interviews with leading experts stakeholders and affected agents Findings are presented in a popular way in order to reach a larger audience of researchers educators students experts farmers businessmen administrators policy makers professionals non governmental and international organizations consumers victims and public at large Food Safety after Fukushima Nicolas

Sternsdorff-Cisterna,2018-10-31 The triple disaster that struck Japan in March 2011 forced people living there to confront new risks in their lives Despite the Japanese government s reassurance that radiation exposure would be small and unlikely to affect the health of the general population many questioned the government s commitment to protecting their health The disaster prompted them to become vigilant about limiting their risk exposure and food emerged as a key area where citizens could determine their own levels of acceptable risk Food Safety after Fukushima examines the process by which notions about what is safe to eat were formulated after the nuclear meltdown Its central argument is that as citizens informed themselves about potential risks they also became savvier in their assessment of the government s handling of the crisis The author terms this Scientific Citizenship and he shows that the acquisition of scientific knowledge on the part of citizens resulted in a transformed relationship between individuals and the state Groups of citizens turned to existing and newly formed organizations where food was sourced from areas far away from the nuclear accident or screened to stricter standards than those required by the state These organizations enabled citizens to exchange information about the disaster meet food producers and work to establish networks of trust where food they considered safe could circulate Based on extensive fieldwork and interviews with citizens groups mothers associations farmers government officials and retailers Food Safety after Fukushima reflects on how social relations were affected by the accident The author vividly depicts an environment where trust between food producers and consumers had been shaken where people felt uneasy about their food choices and the consequences they might have for their children and where farmers were forced to deal with the consequences of pollution that was not of their making Most poignantly the book conveys the heavy burden now attached to the name Fukushima in the popular imagination and explores efforts to resurrect it **Agricultural Impacts of the Great**

East Japan Earthquake - Six Years Later Hrabrin Bachev,2017 On March 11 2011 the strongest ever recorded in Japan

earthquake occurred also known as the Great East Japan Earthquake which triggered a powerful tsunami and caused a nuclear accident in one of the world biggest nuclear power stations Fukushima Daichi More than six years after the triple disaster the overall impacts on Japanese agri food chains is far from being completely due to the scale of the disasters and the number of affected agents the effects multiplicities spillovers and long time horizon the constant evolution of the nuclear crisis the lack of full information and models of analysis etc This paper presents updates on the impacts of the March 2011 earthquake tsunami and Fukushima nuclear accident in Japan on country s agriculture and food sector First disaster events and their effects is outlined Second impact on farms and agricultural resources is estimated Third impact on food industries is assessed Next extend of radioactive contamination of agri food products is presented and effects on markets consumers and international trade evaluated Chapter summarises responses of different agents assesses progress and challenges in post disaster recovery and reconstruction and withdraw lessons from the Japanese experiences

March 2011 Earthquake, Tsunami and Fukushima Nuclear Accident Impacts on Japanese Agri-Food Sector Hrabrin Bachev, 2015 The paper presents findings of a large study on socio economic impacts of the March 2011 earthquake tsunami and Fukushima nuclear disaster on the Japanese agriculture and food sector It contains fourteen parts introduction with the framework of analysis a brief description of events and their overall social economic and environmental effects assessments on affected farms and agricultural resources progress and challenges of restoration of agricultural communities lands infrastructure and businesses assessments of impacts on food industries analysis of radioactive contamination of agri food products evaluation of the effects on markets consumers and international trade analysis of effects on food regulation and inspection system estimates on farms and agri businesses damages from the nuclear accident assessment of overall impact on farms and agricultural resources assessment of overall impact on agricultural productions assessment of overall impact on agricultural output and income assessment of overall impact on farm economy and conclusion with lessons and recommendations

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