

SECOND EDITION

# Advanced Technologies for Meat Processing



Edited by

**Fidel Toldrá • Leo M. L. Nollet**



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# Advanced Technologies For Meat Processing Food Science And Technology

**Sabine Zange**



## **Advanced Technologies For Meat Processing Food Science And Technology:**

**Advanced Technologies For Meat Processing** Leo M.L. Nollet, Fidel Toldra, 2006-03-21 In recent years the meat industry has incorporated important technological advances that to this point have not been addressed in a single source Comprehensive and authoritative Advanced Technologies for Meat Processing presents developments concerning the quality analysis and processing of meat and meat products Co Edited by Fidel Toldra Recipient of the 2010 Distinguished Research Award from the American Meat Science Association Featuring contributions from a panel of international experts the book details technologies used in the meat processing chain It describes important processing methodologies such as gene technology automation irradiation hot boning high pressure vacuum salting enzymes starters and bacteriocins The book begins by exploring various production systems that include the use of modern biotechnology automation in slaughterhouses and rapid non destructive on line detection systems It proceeds to describe different new technologies such as decontamination high pressure processing and fat reduction The book then examines functional meat compounds such as peptides and antioxidants and the processing of nitrate free products and dry cured meat products It also discusses bacteriocins that fight against meat borne pathogens and the latest developments in bacterial starters for improved flavor in fermented meats It concludes with a discussion of packaging systems of the final products

**Emerging Technologies in Meat Processing** Enda J. Cummins, James G. Lyng, 2016-11-18 Meat is a global product which is traded between regions countries and continents The onus is on producers manufacturers transporters and retailers to ensure that an ever demanding consumer receives a top quality product that is free from contamination With such a dynamic product and market place new innovative ways to process package and assess meat products are being developed With ever increasing competition and tighter cost margins industry has shown willingness to engage in seeking novel innovative ways of processing packaging and assessing meat products while maintaining quality and safety attributes This book provides a comprehensive overview on the application of novel processing techniques It represents a standard reference book on novel processing packaging and assessment methods of meat and meat products It is part of the IFST Advances in Food Science book series

Advanced Technologies for Meat Processing Fidel Toldrá, Leo M. L. Nollet, 2017-10-10 As with the first edition the main goal of Advanced Technologies for Meat Processing is to provide the reader with recent developments in new advanced technologies for the full meat processing chain This book is written by distinguished international contributors with recognized expertise and excellent reputations and brings together all the advances in a wide and varied number of technologies that are applied in different stages of meat processing This second edition contains 21 chapters combining updated and revised versions of several chapters with entirely new chapters that deal with new online monitoring techniques like hyperspectral imaging and Raman spectroscopy the use of nanotechnology for sensor devices or new packaging materials and the application of omics technologies like nutrigenomics and proteomics for meat quality and nutrition The

book starts with the control and traceability of genetically modified farm animals followed by four chapters reporting the use of online non destructive monitoring techniques like hyperspectral imaging and Raman spectroscopy real time PCR for pathogens detection and nanotechnology based sensors Then five chapters describe different advanced technologies for meat decontamination such as irradiation hydrostatic and hydrodynamic pressure processing other non thermal technologies and the reduction in contaminants generation Nutrigenomics in animal nutrition and production is the object of a chapter that is followed by five chapters dealing with nutritional related issues like bioactive peptides functional meats fat and salt reduction processing of nitrite free products and the use of proteomics for the improved processing of dry cured meats The last four chapters are reporting the latest developments in bacteriocins against meat borne pathogens the functionality of bacterial starters modified atmosphere packaging and the use of new nanotechnology based materials for intelligent and edible packaging

**Handbook of Meat Processing** Fidel Toldrá,2010-01-21 This handbook comprehensively presents the current status of the manufacturing of the most important meat products Editor and renowned meat expert Fidel Toldr heads an international collection of meat scientists who have contributed to this essential reference book Coverage is divided into three parts Part one Technologies begins with discussions on meat chemistry biochemistry and quality and then provides background information on main technologies involved in the processing of meat such as freezing cooking smoking fermentation emulsification drying and curing Also included are key chapters on packaging spoilage prevention and plant cleaning and sanitation Part two Products is focused on the description of the manufacture of the most important products including cooked and dry cured hams cooked and fermented sausages bacon canned meat pat restructured meats and functional meat products Each chapter addresses raw materials ingredients and additives processing technology main types of products production data particular characteristics and sensory aspects and future trends Part three Controls offers current approaches for the control of the quality and safety of manufactured meat products with coverage including sensory evaluation chemical and biological hazards including GMOs HACCP and quality assurance This book is an invaluable resource for all meat scientists meat processors R D professionals and product developers Key features Unparalleled international expertise of editor and contributing authors Addresses the state of the art of manufacturing the most important meat products Special focus on approaches to control the safety and quality of processed meats Extensive coverage of production technologies sanitation packaging and sensory evaluation

Advances in Meat Processing Technology Alaa El-Din A. Bekhit,2017-09-29 Meat is a unique biological material with a central importance in nutrition and health Advances in Meat Processing Technology merges the expertise of meat scientists and food engineers in a holistic approach toward the processing of meat The meat industry strives to deliver consistent high quality and safe meat products Readers can benefit from knowledge generated by meat science researchers by achieving a greater understanding of the nature of meat and the engineering technology required for meat processing This book comprises 17 full chapters that provide up to date and

fundamental information on current topics in meat processing This includes novel technologies such as the application of pulsed electric field meat stretching and shaping ultrasound and high pressure In addition analytical techniques such as Raman spectroscopy and NMR are enabling considerable advancement of knowledge in meat science and in meat processing Written by world renowned experts in their fields this contemporary collective work assembles the state of current knowledge that is of importance to both industry and academia *Handbook of Processed Meats and Poultry Analysis* Leo M.L. Nollet, Fidel Toldra, 2008-11-12 Muscle foods include a wide range of processed meats and poultry and therefore represent an important percentage of total worldwide food consumption The sheer volume of products and the variety of processes available makes analyzing them problematic Co Edited by Fidel Toldra Recipient of the 2010 Distinguished Research Award from the American **Advances in Meat Processing Technologies: Modern Approaches to Meet Consumer Demand** Daneysa L. Kalschne, Marinês P. Corso, Cristiane Canan, 2020-08-31 Meat and meat based products play an important role as foods in the diets of people around the world However environmental and social issues have posed a challenge to meat production processing plants with the advent of more consumer conscious production values across the food processing industry and a changing attitude among some communities towards the consumption of products from animal origin The development of meat science and technology has brought solutions that allow the consumption of meat in a greater proportion from the source Traditional processes such as salting smoking and fermentation have been refined and more recently processes such as emulsification marinating and tenderizing of meat have further diversified meat products Meat processing technology is also required to meet consumer expectations and demands for nutritious and safe food Consumer requirements have pushed for need for adaptation and modernization of slaughterhouses as well as the use of more suitable processing technologies for saving water energy and reducing waste production all while trying to provide a high level of nutritional sensory and food safety for consumers *Advances in Meat Processing Technologies* aims to inform students researchers lecturers and others who are interested in the subject about new meat and meat based product processing technologies The handbook covers a variety of meat processing technologies including dry fermentation meat emulsification curing marinating restructuring and processing of non emulsified meat and meat analogues Additional chapters cover the use of additives and ultrasound technology in meat processing as well as different strategies suitable for meat processing operations The simple topical presentation of the book which covers a wide variety of products makes the book a key reference for informing students researchers lecturers professionals and general readers who are interested in the subject of meat processing technology *Handbook of Food Analysis - Two Volume Set* Leo M.L. Nollet, Fidel Toldra, 2015-06-10 Updated to reflect changes in the industry during the last ten years The *Handbook of Food Analysis* Third Edition covers the new analysis systems optimization of existing techniques and automation and miniaturization methods Under the editorial guidance of food science pioneer Leo M L Nollet and new editor Fidel Toldra the chapters take an in

*Handbook of Fermented Meat and Poultry* Fidel Toldrá, Iciar Astiasaran, Joseph Sebranek, Regine Talon, 2014-10-27

Fermented meat products have been consumed for centuries in many different parts of the world and constitute one of the most important groups of food. Bacterial cultures are used in their manufacture to preserve the meat and confer particular textures and sensory attributes. Examples of fermented meats include salami, chorizo, pepperoni, and saucisson. This fully revised and expanded reference book on meat fermentation presents all the principle fermented meat products and the processing technologies currently used in their manufacture. The 54 chapters of this substantial book are grouped into the following sections: Meat fermentation worldwide overview, production and principles, Raw materials, Microbiology and starter cultures for meat fermentation, Sensory attributes, Product categories, general considerations, Semidry fermented sausages, Dry fermented sausages, Other fermented meats and poultry, Ripened meat products, Biological and chemical safety of fermented meat products, Processing, sanitation and quality assurance. There are five new chapters in the second edition that address the following topics: Smoking and new smoke flavourings, Probiotics, Methodologies for the study of the microbial ecology in fermented sausages, Low sodium in meat products and Asian sausages. *Handbook of Fermented Meat and Poultry* Second Edition provides readers with a full overview of meat fermentation, the role of microorganisms naturally present and or added as starter cultures, safety aspects and an account of the main chemical, biochemical, physical and microbiological changes that occur in processing and how they affect final quality. Finally, readers will find the main types of worldwide fermented meat products typically produced in different areas with the description of their main characteristics.

**Handbook of Food Products Manufacturing, 2 Volume Set** Nirmal K. Sinha, 2007-04-27 The *Handbook of Food Products Manufacturing* is a definitive master reference providing an overview of food manufacturing in general and then covering the processing and manufacturing of more than 100 of the most common food products. With editors and contributors from 24 countries in North America, Europe and Asia, this guide provides international expertise and a truly global perspective on food manufacturing.

**Emerging Technologies in Meat Processing** Enda J. Cummins, James G. Lyng, 2016-11-22 Meat is a global product which is traded between regions, countries and continents. The onus is on producers, manufacturers, transporters and retailers to ensure that an ever demanding consumer receives a top quality product that is free from contamination. With such a dynamic product and market place, new innovative ways to process, package and assess meat products are being developed. With ever increasing competition and tighter cost margins, industry has shown willingness to engage in seeking novel innovative ways of processing, packaging and assessing meat products while maintaining quality and safety attributes. This book provides a comprehensive overview on the application of novel processing techniques. It represents a standard reference book on novel processing, packaging and assessment methods of meat and meat products. It is part of the IFST *Advances in Food Science* book series.

**Innovative Food Processing Technologies** Kai Knoerzer, Pablo Juliano, Geoffrey W. Smithers, 2016-06-29 *Innovative Food Processing Technologies*

Extraction Separation Component Modification and Process Intensification focuses on advances in new and novel non thermal processing technologies which allow food producers to modify and process food with minimal damage to the foodstuffs The book is highly focused on the application of new and novel technologies beginning with an introductory chapter and then detailing technologies which can be used to extract food components Further sections on the use of technologies to modify the structure of food and the separation of food components are also included with a final section focusing on process intensification and enhancement Provides information on a variety of food processing technologies Focuses on advances in new and novel non thermal processing technologies which allow food producers to modify and process food with minimal damage to the foodstuffs Presents a strong focus on the application of technologies in a variety of situations Created by editors who have a background in both the industry and academia

**Conventional and Advanced Food Processing Technologies** Suvendu Bhattacharya,2014-09-26 Food processing technologies are an essential link in the food chain These technologies are many and varied changing in popularity with changing consumption patterns and product popularity Newer process technologies are also being evolved to provide the added advantages Conventional and Advanced Food Processing Technologies fuses the practical application machinery theoretical model equation and cutting edge recent trends making it ideal for industrial academic and reference use It consists of two sections one covering conventional or well established existing processes and the other covering emerging or novel process technologies that are expected to be employed in the near future for the processing of foods in the commercial sector All are examined in great detail considering their current and future applications with added examples and the very latest data Conventional and Advanced Food Processing Technologies is a comprehensive treatment of the current state of knowledge on food processing technology In its extensive coverage and the selection of reputed research scientists who have contributed to each topic this book will be a definitive text in this field for students food professionals and researchers *Encyclopedia of Food Science and Technology* Yiu H. Hui,1992

**Encyclopedia of Food Science and Technology** ,2000 **Development and Acquisition of New Technologies in the Food-processing Industry** Donald A. West,Canada. Agriculture and Agri-Food Canada,2000 This study examines the innovative process as practised in the food processing industry with emphasis on process innovation either alone or in conjunction with a new product Data for the study were obtained from Statistics Canada s 1998 Survey of Advanced Technology in the Food Processing Industry After an introduction on the study the Survey chapter 2 describes the level of innovation in the industry and provides the links between innovation and the use of advanced technologies technological competitiveness practice and strategies Chapter 3 examines the relationships among the ways that plants buy adapt or develop new technologies and the methods used to develop acquire the new technologies Innovative activities of recent innovators are also compared with those who have not made a recent innovation Chapter 4 studies differences in innovative activities between Canadian controlled and foreign controlled plants large and small plants and individual food

industries Chapter 5 investigates the human resource implications of technological change Chapter 7 looks at the importance of government programs services for innovation in the industry The final chapter draws some conclusions *American Book Publishing Record* ,2006 **Contributions to Science** ,2001 *Economics and Management of Food Processing* William Smith Greig,1984 Food industry size and some aspects of consumer food expenditures in the United States Size of the food processing industry Growth in the food processing industry Profitability and other financial operating ratios in the food processing industry Government policy toward food marketing The markets for foods in the United States Product competition and new product development Some new food processing technologies Changing locations in the food processing industry and measurement of important cost factors affecting changes Productivity in the U S Food Industries with policy options to increase productivity Managing commodity price risks in the food industry The changing structure of the food processing industry description causes impacts and policy alternatives Reasons for increased emphasis on exports and private U S investment in foreign agribusiness enterprises with some sources of assistance Summary and speculations on the future **Food Science and Human Nutrition Graduate Program** Iowa State University. Department of Food Science and Human Nutrition,2002

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