

14. Microbial Safety of Fishery Products

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Introduction

Fish and fishery products constitute an important food component for a large section of world population, more so in developing countries, where fish forms a cheap source of protein. In the last two decades there has been an increase in awareness about the nutritional and health benefits of fish consumption. The low fat content of some fish and the presence of poly unsaturated fatty acids in red meat fishes which are known to reduce the risks of coronary heart diseases, have increased the dietary and health significance of seafood consumption (Din et al., 2004). In USA, seafood consumption has increased from an average of 4.5 kg per person in 1960 to about 7.0 kg per person in 2002 (NOAA, 2003). Total fishery production in 2001 was reported to be 130.2 million tonnes, of which 37.9 (30%) million tonnes was from aquaculture, 90% of which came from Asian countries. On the other hand, seafood is also known to have been responsible for a significant percentage of food borne diseases. With increased fish consumption, there is also an increase in the number of food-borne illness associated with fishery products. In the United States, 10-19% of food-borne illness involved seafood as a vehicle and between 1993 and 1997, 6.8% of the food-borne illnesses involved consumption of fish and shellfish (FAQ, 2004). In Japan, where seafood consumption is high and raw fish consumption is popular, 70% of food-borne illness is attributed to seafood. These data highlight the importance of seafood as vehicles for human illness.

However, the true incidence of seafood-borne diseases worldwide is not known, as there is no surveillance system in the developing countries. In addition to being responsible for human health problems, the presence of infectious agents in seafood results in rejection of seafood consignments leading to major economic losses to exporting countries in general, and to seafood processing industries in particular. Maintenance of seafood quality is central to ensuring the safety of seafood. This has been a major area of concern for seafood processing industries and a great challenge to scientists and researchers worldwide. This review focuses on agents

and causes of human illness encountered in seafood and issues related to seafood safety and quality management.

Causes of seafood-borne illness

Seafood often harbour infectious agents that are present naturally in the aquatic environment or introduced through human activities. The illness may be due to the infection caused by the micro-organism or due to the intoxication by products of microorganisms. Viruses, bacteria and parasites are the agents of human disease associated with seafoods. The products of microorganism such as bacterial toxins, algal toxins or products of bacterial metabolism such as histamine can cause intoxication when fish or shellfish harbouring these products are consumed. In the case of live finfish, microorganisms may be associated with gill, gut and skin. Filter feeding shellfish like mollusks concentrate different types of microorganisms present in the environment around them. Some of the microorganisms of human health concern may be native to the aquatic environment such as the members of the genus *Vibrio* but others like *Salmonella*, *E. coli* and many viruses are introduced into the aquatic environment through human activities such as contamination by domestic sewage. The type of microorganism associated with seafood may vary depending upon whether it is fresh or processed. Most of the outbreaks of illnesses occur in countries where seafood is eaten raw or is inadequately cooked. For example, in Japan where seafood is eaten raw, 70% of food borne human illness is seafood associated (Scoging 2003).

Viruses associated with seafoods

Viruses constitute an important cause of seafood borne diseases. The intensity of human illness is known only from developed countries. For example in the USA, it is estimated that 80% of food borne illness are due to enteric viruses (Sair et al., 2002). The major limitation in diagnosing viral infections is the non-availability of techniques or facilities for detecting or identifying viral pathogens. The recent advances in

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Microbial Safety of Fishery Products C. O. Chichester, H. D. Graham, 2013-09-03 *Microbial Safety of Fishery Products* discusses the many aspects of the safety of marine products from a microbiological and toxicological standpoint This book emphasizes the objectives and requirements for the marketing of safe and wholesome fish and fishery products status of the sanitary quality of fishery products in the Western Hemisphere and fishery resources of the Caribbean and their potential The microbiological considerations in the handling and processing of molluscan shellfish microbiology of prepared and precooked fishery products and some toxins occurring naturally in marine organisms are also elaborated This text likewise covers the enteric pathogens in estuary waters and shellfish control of prepared fishery products in industry and aflatoxins as contaminants of feeds fish and foods This publication is a good reference for food scientist and nutritionists researching on the sanitary quality of fishery products

Fishery Products Hartmut Rehbein, Jorg Oehlenschlager, 2009-11-16 Food quality and safety issues continue to dominate the press with most food companies spending large amounts of money to ensure that the food quality and assessment procedures in place are adequate and produce good and safe food This holds true for companies and laboratories responsible for the processing of fish into various products those responsible for researching safe new products and departments within other companies supporting these functions *Fishery Products* brings together details of all the major methodologies used to assess the quality of fishery products in the widest sense Subject coverage of this important book includes chapters on assessment of authenticity and several chapters on quality assessment using various methods such as Texture measurement Electronic nose and tongue NMR Colour measurement This timely volume will serve as a vital tool for all those working in the processing of fishery and aquaculture products including laboratory personnel working in regulatory bodies food quality control personnel food scientists food technologists nutritionists seafood trade bodies seafood labelling regulatory bodies government food protection agencies and environmental health personnel Libraries in research establishments and universities where food science food technology nutrition aquaculture fisheries and biological sciences are studied and taught should have copies of this important publication on their shelves

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Assessment and Management of Seafood Safety and Quality Hans Henrik Huss, Lahsen Ababouch, Lone Gram, Food and Agriculture Organization of the United Nations, 2004 This paper brings together current knowledge on fish safety and quality issues Topics discussed include a summary of world fish production and consumption developments in safety and quality systems and a review of public health hazards regarding fish and fish products risk mitigation and management tools including requirements for the implementation of the Good Hygienic and Manufacturing Practices GHP GMP of the Hazard Analysis Critical Control Point HACCP system and of the monitoring programmes to control biotoxins pathogenic bacteria and viruses and chemical pollutants the use of the HACCP approach to target other non safety quality issues predictive microbiology traceability and examples of food safety objectives

Canadian Technical

Report of Fisheries and Aquatic Sciences ,1982 Includes abstracts and introduction in French **Second International Congress on Seafood Technology on Sustainable, Innovative and Healthy Seafood** John Ryder,Lahsen

Ababouch,Murat O. Balaban,2012 These proceedings contain the manuscripts from the Second International Congress on Seafood Technology on Sustainable Innovative and Healthy Seafood held in Anchorage the United States of America from 10 to 13 May 2010 The meeting included a range of views regarding the opportunities and the recent developments in sustainable innovative and healthy seafood These included thoughts from government officials business representatives and academia and highlighted that the seafood industry is in a position to take advantage of the many positive aspects that consumption of seafood offers to consumers while recognizing that there are still challenges ahead to realize fully the potential that seafood can achieve in international and national trade and in meeting consumer expectations

Compendium of Methods for the Microbiological Examination of Foods American Public Health Association. Intersociety/Agency Committee on Microbiological Methods for Foods,Marvin L. Speck,1976 Proceedings by the APHA Intersociety Agency Committee on Microbiological Methods for Foods The Microbiological Safety of Food Great Britain. Committee on the Microbiological Safety of Food,Mark Richmond,1990 **Microbial Approaches to Aquatic Nutrition Within Environmentally Sound Aquaculture Production Systems** R. LeRoy Creswell,Cheng-Sheng Lee,Rosa Flos,2002

Seafood Safety and Quality Md. Latiful Bari,Koji Yamazaki,2018-08-06 Seafood Safety and Quality continues to be a major public health issue and its importance has escalated to unprecedented levels in recent years In this book major seafood borne diseases and key safety issues are reviewed In addition emerging microbial agents fish toxins and other contaminants including heavy metal allergy water safety and related topics are discussed It also addresses the challenges faced by both developed and developing countries to ensure seafood safety in new seafood products and processing technologies seafood trade safety of foods derived from biotechnology microbiological risks emergence of new and antibioticresistant pathogens particularly from emerging pathogens directing research to areas of high risk focus intervention and establishment of target risk levels and target diseases or pathogens The book serves as a comprehensive resource on the seafood borne diseases and a wide variety of responsible etiologic agents including bacteria viruses parasites seafood toxins and environmental toxins It has been written in a simple manner and should promote the efforts of the scientific community to deliver safe seafood for a better health and environment Harvest and Post-harvest Technology of Fish Kanechamkandy Ravindran,1985

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Table of Contents Microbial Safety Of Fishery Products

1. Understanding the eBook Microbial Safety Of Fishery Products
 - The Rise of Digital Reading Microbial Safety Of Fishery Products
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbial Safety Of Fishery Products
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microbial Safety Of Fishery Products
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbial Safety Of Fishery Products
 - Personalized Recommendations

- Microbial Safety Of Fishery Products User Reviews and Ratings
- Microbial Safety Of Fishery Products and Bestseller Lists
- 5. Accessing Microbial Safety Of Fishery Products Free and Paid eBooks
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 - Microbial Safety Of Fishery Products Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbial Safety Of Fishery Products
- 9. Balancing eBooks and Physical Books Microbial Safety Of Fishery Products
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbial Safety Of Fishery Products
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microbial Safety Of Fishery Products
 - Setting Reading Goals Microbial Safety Of Fishery Products
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microbial Safety Of Fishery Products
 - Fact-Checking eBook Content of Microbial Safety Of Fishery Products

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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