

# 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

# Microbial Safety Of Fishery Products

**JL Elias**



## **Microbial Safety Of Fishery Products:**

**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

**Bibliography of Agriculture** ,1974      **The Microbiological Safety of Food** Great Britain. Committee on the Microbiological Safety of Food, Mark Richmond, 1990      Canadian Technical Report of Fisheries and Aquatic Sciences ,1982      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      **Fishery Products** Hartmut Rehbein, Jorg Oehlenschlaeger, 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

*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

Fishery Technology ,1997    *Microbial Approaches to Aquatic Nutrition Within Environmentally Sound Aquaculture Production Systems* R. LeRoy Creswell,Cheng-Sheng Lee,Rosa Flos,2002    **Technical Report Series** ,1974    *Aquatic Sciences and Fisheries Abstracts* ,1975    Report of the Seventh Session of the Indo-Pacific Fishery Commission, Working Party on Fish Technology and Marketing ,1988    *National Agricultural Library Catalog* National Agricultural Library (U.S.),1974    **A Comprehensive Review of the Commercial Mussel Industries in the United States** Richard A. Lutz,1977    **Can J Microbiol** ,1975    The Texas Journal of Science ,1990 Includes the proceedings and transactions of the Academy    **Witthayāsān Kasētsārt** ,2007    **National Academy Science Letters** National Academy of Sciences, India,1998    **Proceedings of the ... Annual Gulf and Caribbean Fisheries Institute** Gulf and Caribbean Fisheries Institute,1999    Food Commodities International Commission on Microbiological Specifications for Foods,1980

## Enjoying the Melody of Expression: An Mental Symphony within **Microbial Safety Of Fishery Products**

In a global taken by screens and the ceaseless chatter of immediate interaction, the melodic beauty and mental symphony created by the written term often fade into the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. But, located within the pages of **Microbial Safety Of Fishery Products** a charming literary treasure full of organic feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that interesting masterpiece conducts viewers on an emotional trip, skillfully unraveling the hidden songs and profound affect resonating within each cautiously constructed phrase. Within the depths of the poignant examination, we shall explore the book is central harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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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
  - Microbial Safety Of Fishery Products Public Domain eBooks
  - Microbial Safety Of Fishery Products eBook Subscription Services
  - Microbial Safety Of Fishery Products Budget-Friendly Options
- 6. Navigating Microbial Safety Of Fishery Products eBook Formats
  - ePub, PDF, MOBI, and More
  - Microbial Safety Of Fishery Products Compatibility with Devices
  - Microbial Safety Of Fishery Products Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microbial Safety Of Fishery Products
  - Highlighting and Note-Taking Microbial Safety Of Fishery Products
  - Interactive Elements Microbial Safety Of Fishery Products
- 8. Staying Engaged with Microbial Safety Of Fishery Products
  - 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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