

# Physiology and Biochemistry of Indigenous Tribal Liquor Haria: A State of Art



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## Abstract

Haria, also known as rice beer is an ethnic alcoholic drink that has gained huge appreciation among the tribal's of Bengal. The liquor is mostly prepared using the indigenous knowledge of the tribal community. The uniqueness of the liquor lies in the application of Bakhar, an amylolytic starter culture. Although, the preparation of Bakhar differs from community to community but ~42 species of ethno-botanically important plants are mostly used. The microbial consortia are naturally outsourced from rice and herbs used for the preparation of Bakhar. The amylolytic starter culture consistently generates maltooligosaccharides, which is a low calorie ingredient, less sweet and viscous, capable of retaining ample quantity of water within it. Besides, serving the purpose of a beverage, Haria can compensate the loss of water in the human system under extreme high temperature. Together with this, the drink also serves as a remedy for several acute and chronic diseases which may be due to the use of certain medicinal herbs as starter culture.

**Keywords:** Fermentation; Beverage; Tribe; Haria; Bakhar

## Introduction

Preservation of foods through natural fermentation is a widely accepted methodology, practised from the ancient times. The aforesaid process mostly emerged through the indigenous knowledge of the ancestors of the Tribal communities. A huge number of traditional ethnic practices have been neglected and thus no proper documentations are available for scientific analysis. But while analyzing Haria it has been recorded that a huge number of diversified flora and microbial culture have been incorporated during manufacturing of such product which are used traditionally by the tribal communities in their traditional rituals.

In India, till date several tribal communities are widely distributed throughout the geographical extent. The substrates used for the preparation, amylolytic starter culture and its preparation, processing methodology and the environment differs from community to community and are the main decisive factors responsible for the final end product. The topographical location of tribal community is majority responsible for the substrate and selection of local herbs. The aforesaid selection is crucial in defining the biochemistry of the process and the microbes responsible for carrying out fermentation. The synergistic effect of biochemical composition of the substrate and microbes mostly defines the profile of the product. There

is a firm belief among the Tribals that despite of serving the purpose of beverage, brewed liquors sometimes acts as a remedy to several acute and chronic diseases. Therefore, they are still striving to preserve their indigenous culture and carry their ancestral legacy from generation to generation [1,2]. The present article deals with the processing methodology and preparation of the amylolytic starter culture adopted for the preparation of Haria, a brewed liquor ethnically processed by the Tribals of the lateritic part of West Bengal. The article also emphasizes the nutritional importance of the liquor among the tribals of the region and tries to analyze the biochemistry of Haria and its health impact.

## Natural Processing and Preservation

Modern food processing employ several techniques like pasteurization, thermal heat processing, appertization, sterilization to reduce the microbial load in food products to increase the shelf life of the food. Even for preservation chemical additives (nitrites, sulphite) and organic acids (sorbic acid, propionic acid, benzoic acid) are widely used to restrict the growth of microbes. But application of such modern processing techniques reduces the nutritional quality of foods as well as synthetic preservatives enforces to compromise with the organoleptic properties of food. In the recent time, consumer's

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**Terry C. Jones**



## **Physiology And Biochemistry Of Indigenous Tribal Liquor:**

### **Treatment and Disposal of Solid and Hazardous Wastes** Debashish Sengupta, Brajesh K. Dubey, Sudha

Goel, 2022-03-13 Interest in solid and hazardous waste management is relatively recent i.e. in the last three decades and is driven by regulations in most countries. It began with industrial hazardous waste followed by municipal solid waste and subsequently by many other categories of waste. This book presents numerous examples and case studies of innovative tools, treatment methods and applications in this growing area of research and development. It describes in detail laboratory methods of measuring the biodegradation of specific organic fractions like floral waste and also discusses the treatment of yard and food waste by anaerobic digestion and landfill leachate using constructed wetlands. Case studies are provided that show how remote sensing (RS) and GIS were used to develop an integrated solid waste management plan for a city and to evaluate the environmental impacts of stone quarrying activities. The book also features chapters discussing the implications of natural radioactivity in beach placers and their impact on groundwater and other parts of the environment as well as the twelve principles of green chemistry and their application in the reuse and recycling of solid waste. Moreover, it includes examples of waste-to-energy like refuse-derived fuel and biofuel generation and an evaluation of their potential and covers topics such as life cycle assessment as a tool for developing integrated solid waste management systems and an overview of municipal solid waste management rules illustrating the importance of technological inputs in the development of regulatory frameworks. Written by leading practitioners and scholars in the field, the book enables readers to understand and apply these principles and practices in their endeavours.

**Ethnic Fermented Foods and Beverages of India: Science, History and Culture** Jyoti Prakash Tamang, 2020-03-02 This book provides detailed information on the various ethnic fermented foods and beverages of India. India is home to a diverse food culture comprising fermented and non-fermented ethnic foods and alcoholic beverages. More than 350 different types of familiar, less familiar and rare ethnic fermented foods and alcoholic beverages are traditionally prepared by the country's diverse ethnic groups and include alcoholic milk, vegetable, bamboo, legume, meat, fish and cereal-based beverages. Most of the Indian ethnic fermented foods are naturally fermented, whereas the majority of the alcoholic beverages have been prepared using dry starter culture and the back-sloping method for the past 6000 years. A broad range of culturable and unculturable microbiomes and mycobiomes are associated with the fermentation and production of ethnic foods and alcoholic drinks in India. The book begins with detailed chapters on various aspects including food habits, dietary culture and the history, microbiology and health benefits of fermented Indian food and beverages. Subsequent chapters describe unique and region-specific ethnic fermented foods and beverages from all 28 states and 9 union territories. In turn, the classification of various ethnic fermented foods and beverages, their traditional methods of preparation, culinary practices and mode of consumption, socio-economy, ethnic values, microbiology, food safety, nutritional value and process optimization in some foods are discussed in details with original pictures. In closing, the book addresses the

medicinal properties of the fermented food products and their health benefits together with corresponding safety regulations

**Plants and Phytomolecules for Immunomodulation** Neelam S. Sangwan, Mohamed A. Farag, Luzia Valentina Modolo, 2022-08-30 This book describes the process of immunomodulation and the plants which possess immunomodulation properties to boost the immune system The immunomodulation process is highly relevant to address emerging as well as existing diseases in humans A better immune system triggers the cellular responses for neutralizing and combating the onset of disease conditions Chapters in the book discuss plants that have profound effects on the health and well being of humans They discuss the natural phytochemicals that have immense diversity and uniqueness of molecules Molecules belonging to phenylpropanoids terpenoids steroids alkaloids and tannins etc possess a variety of pharmacological activities The chapters describe how bioactive exert effects even when taken as part of the diet supplement and or as traditional herbal medicine This book provides up to date scientific knowledge about the activities and mechanisms and leads in the area of medicinal plants and phytochemicals with immunomodulation properties This book is meant for students academics researchers and industry professionals interested in pharmacology immunology and plant secondary metabolites Indigenous Fermented Foods of South Asia V.K. Joshi, 2016-01-05 Indigenous Fermented Foods of South Asia covers the foods of India Pakistan Bangladesh Sri Lanka Nepal Bhutan Maldives and Afghanistan For each type of food its microbiology biochemistry biotechnology quality and nutritional value is covered in depth The book discusses numerous topics including various types of fermented foods their o *Calling from the Rim* ,1993 **Handbook of Plant-Based Fermented Food and Beverage Technology** Y. H. Hui, E. Özgül Evranuz, 2012-05-17 Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet especially in rural households and village communities worldwide Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened int Waking From Sleep Steve Taylor, 2010-12-01 How much of your waking time are you fully awake On the other hand how often do you stumble through the day on autopilot half asleep and out of contact with yourself instead of feeling connected and alive In this astounding book Steve Taylor suggests that our normal consciousness is really a kind of sleep from which we sometimes wake up into a more intense and complete reality He provides what is perhaps the first ever clear explanation of higher states of consciousness or awakening experiences This work delves into the methods we human beings have used throughout history to induce awakening experiences including meditation sex sports psychedelic drugs and sleep deprivation how higher states of consciousness were normal and natural to some of the world s peoples and still are in some cases and how we can make wakefulness our normal state again By fully explaining awakening experiences the author makes them much more accessible which may lead to a revolution in our psychological development as human beings **Handbook of Fermented Food and Beverage Technology Two Volume Set** Y. H. Hui, E. Özgül Evranuz, 2012-05-21 Fermented food can be produced with inexpensive ingredients and simple

techniques and makes a significant contribution to the human diet especially in rural households and village communities worldwide Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened interest

**Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1974

**Fermented Foods, Part I** Didier Montet,Ramesh C. Ray,2016-04-19 Traditional fermented foods are not only the staple food for most of developing countries but also the key healthy food for developed countries As the healthy functions of these foods are gradually discovered more high throughput biotechnologies are being used to promote the fermented food industries As a result the microorganisms process bioc

**Indian Journal of Experimental Biology** ,2005

**Indian Science Abstracts** ,2007

**Addiction and the Making of Professional Careers** Griffith Edwards,Thomas F. Babor,2012-03-15 The misuse of drugs continues to cause suffering and worldwide economic turmoil In response to these problems many have devoted their lives to preventing the misuse of mind altering substances Addiction and the Making of Professional Careers focuses on the need for enhanced understanding of professional careers in the addiction field The spectrum of professionals involved is wide and includes treatment personnel of every kind Some of the questions examined here include Why do some people decide to dedicate their lives to responding to drug problems How do and should we select train mentor support inspire and nurture the young career aspirant What makes for the most effective use of talent Is every personal case different or can general conclusions be reached After a foreword by William Miller and an introduction by Griffith Edwards the book includes interviews with Joseph Brady Louis Harris Conan Kornetsky and Robert DuPont all of whom were pioneers in the behavioral pharmacological analysis of addiction Commentary chapters are written by Kerstin Stenius Ilana Crome Peter Anderson and Jonathan Chick

**Indian Journal of Biochemistry & Biophysics** ,2004

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*Report of Work Done in Indian Institute for Biochemistry and Experimental Medicine During ...* Indian Institute for Biochemistry and Experimental Medicine,1956

**Climate-Smart Livestock Production: Strategies for Enhanced Sustainability and Resilience** Oyegunle Emmanuel Oke,Victoria Anthony Uyanga,Monsuru Oladimeji Abioja, Fisayo Oretomiloye,2025-09-08 Climate smart livestock production is essential for enhancing animal welfare ensuring food security and bolstering resilience against climate change as demand for animal sourced foods grows This field focuses on identifying sustainable strategies at all production scales from expansive commercial farms to smaller operations We seek original research and review articles that detail practices and technologies aimed at reducing greenhouse gas emissions minimizing water pollution optimizing land use and improving animal welfare in livestock systems The sector faces significant challenges from climate change including heat stress water scarcity and heightened disease risks Adopting climate smart practices such as increasing feed efficiency streamlining manure management and utilizing renewable energy are pivotal in creating more sustainable livestock systems These efforts must integrate animal welfare to ensure the sustainability and resilience of these enterprises over the long term

**Drug Abuse Research and**

**Development** , All development and research projects funded during the year concerned Each agency includes list of researchers and project information as well as analytical charts graphs and tables Also includes alphabetical and classified lists of researchers      *Cumulated Index Medicus* ,1972      **Winds of Change** ,2006

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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physiology And Biochemistry Of Indigenous Tribal Liquor**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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