

Food and Nutrition Sciences



ISSN: 2157-944X



Journal Editorial Board

ISSN Print: 2157-944X ISSN Online: 2157-9458

<http://www.scirp.org/journal/fns>

Editor-in-Chief

Prof. Alessandra Bordini

University of Bologna, Italy

Associate Editors-in-Chief

Prof. Xufeng Huang

University of Wollongong, Australia

Prof. Michael G. Kontominas

University of Ioannina, Greece

Editorial Board

Dr. Kayanush J. Aryana

Louisiana State University, USA

Dr. Nick Bellissimo

Ryerson University, Canada

Dr. Lauri O. Byerley

Louisiana State University, USA

Prof. Kelvin J. A. Davies

University of Southern California, USA

Prof. Asim K. Duttaroy

University of Oslo, Norway

Dr. Anthony Fardet

Institut National de la Recherche Agronomique, France

Prof. Tomas Girbes

University of Valladolid, Spain

Dr. Beau K. Greer

Sacred Heart University, USA

Dr. Jeffrey S. Hampl

Arizona State University, USA

Prof. Yong He

Zhejiang University, China

Dr. Kimberly B. Heidal

East Carolina University, USA

Prof. Yu Huang

Chinese University of Hong Kong, China

Prof. Federico Infascelli

University of Naples Federico II, Italy

Dr. Jagat R. Kanwar

Deakin University, Australia

Dr. Dalia El Khoury

University of Toronto, Canada

Prof. Patricia A. Kruk

University of South Florida, USA

Dr. Jean-Claude Lavoie

University of Montreal, Canada

Dr. Josef Friedhelm Marx

University of Bonn, Germany

Dr. Francisco Javier Moreno

Autonomous University of Madrid, Spain

Prof. Hasan Mukhtar

University of Wisconsin, USA

Dr. Maurice O'Sullivan

University College Cork, Ireland

Dr. Mustafa Zafer Özel

The University of York, UK

Dr. Uma Devi Palanisamy

Monash University Sunway Campus, Australia

Prof. Young W. Park

Fort Valley State University, USA

Dr. Salina Parveen

University of Maryland Eastern Shore, USA

Dr. Reza Poureslami

Insta-Pro International, USA

Dr. Jayadev Raju

Health Canada, Canada

Prof. Charles R. Santerre

Purdue University, USA

Dr. Vicki L. Schlegel

University of Nebraska-Lincoln, USA

Dr. Mykola Shynkaryk

The Ohio State University, USA

Dr. Geeta Sikand

University of California, USA

Dr. Heidi J. Silver

Vanderbilt University, USA

Prof. Jesus Simal-Gandara

University of Vigo, Spain

Prof. Linda G. Snetselaar

The University of Iowa, USA

Dr. Lucy Thairu

Touro University, USA

Dr. Brijesh Kumar Tiwari

Manchester Metropolitan University, UK

Prof. Alan C. Tsai

Asia University, Chinese Taipei

Dr. Thomas T. Y. Wang

Johns Hopkins University, USA

Dr. Ali Abas Wani

Technical University of Munich, Germany

Dr. Jack Wing Tak Wong

Stanford University School of Medicine, USA

Table of Contents

Volume 5 Number 13

July 2014

Functional Characterization of Bifidobacteria of Human Origin: A Case Study by the Students of Food Science and Technology of the University of Foggia (Southern Italy)

E. Ciuffreda, A. Veronica, A. Cifelli, R. Foti, R. I. Forte, F. Graziani, A. G. Longo, A. Longo, V. Maglia,
E. F. Ricciardi, A. Sabatino, A. Tomaiuolo, M. R. Corbo, M. Sinigaglia, A. Bevilacqua.....1153

Chemical Properties of Pectin from Industry Hot and Cold Break Tomato Products

H. H. Chong, S. Simsek, B. L. Reuhs.....1162

Structure and Performance of the Retail Outlets of Honey in the Kingdom of Saudi Arabia

A. A. Al-Ghamdi, A. Zulail, N. Adgaba.....1168

Analysis of the Fatty Acids and Phenolic Compounds in a Cereal-Based Fermented Food (Tarhana)

M. Ovando-Martinez, O. Daglioglu, K. G. Guner, U. Gecgel, S. Simsek.....1177

Effects of Planting Methods and Seed Density on Vegetable Yield and Nutrient Composition of *Solanum macrocarpon* and *Solanum scabrum* in Southwest Nigeria

M. K. Idowu, D. J. Oyedele, O. K. Adegunle, O. O. Akinremi, B. Eilers.....1185

Breast Milk Micronutrients in Lactating Mothers from Ribeirão Preto (SP), Brazil

M. T. S. Andrade, L. A. Del Ciampo, I. R. L. Del Ciampo, I. S. Ferraz, F. Barbosa Junior.....1196

Antihypertensive Properties on Spontaneously Hypertensive Rats of Peptide Hydrolysates from Silkworm Pupae Protein

W. Wang, N. Wang, Y. Zhang.....1202

Flavonoids Loaded in Nanocarriers: An Opportunity to Increase Oral Bioavailability and Bioefficacy

A. R. Bilia, B. Isacchi, C. Righeschi, C. Guccione, M. C. Bergonzi.....1212

Fermented Milk Products from Different Milk Types

O. Ladokun, S. Oni.....1228

Apple as a Source of Dietary Phytonutrients: Bioavailability and Evidence of Protective Effects against Human Cardiovascular Disease

G. Ferretti, I. Turco, T. Bacchetti.....1234

Are Family Table Foods Appropriate for Infants? Comparing the Nutritional Quality of Homemade Meals Adapted from the Family's Table Foods and Those Specially Prepared for Infants

P. Ribeiro, D. M. Sigulem, T. B. Morais.....1247

Induction of Necrotizing Enterocolitis in Non-Premature Sprague-Dawley Rats and the Effect of Administering Breast Milk-Isolated *Lactobacillus salivarius* LPLM-O1

E. Castro, J. Cofré, J. P. Mellado, K. Pardo, M. J. Aguayo, E. Monsalvez, H. Montecinos, M. González.....1255

A Study on Tomato Candy Prepared by Dehydration Technique Using Different Sugar Solutions

M. Hasanuzzaman, M. Kamruzzaman, M. M. Islam, S. A. A. Khanom, M. M. Rahman, L. A. Lisa, D. K. Paul.....1261

Citrus Pulp in Concentrates for Horses

R. A. Brandi, A. M. O. Tribucci, J. C. C. Balieiro, R. M. Hoffman, I. C. S. Bueno.....1272

Antioxidant Effects of Alperujo Extract (Arbequina and Frantoio Varieties) on MIN6 β -Cells Subjected to Stress with Glucose or H_2O_2

C. González, M. Andrews, E. Leiva, C. Quispe, M. Arredondo.....1280

Organochlorine Pesticides in Infant Milk Formulas Marketed in the South of Mexico City

R. G. Tolentino, S. V. León, B. S. Bermúdez, G. P. Flores, M. de Lourdes Ramírez Vega, C. R. Vázquez,
M. R. Vázquez, M. V. Francisca.....1290

Food and Nutrition Sciences (FNS)

Journal Information

SUBSCRIPTIONS

The *Food and Nutrition Sciences* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$89 per copy.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2014 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2014 by author(s) and Scientific Research Publishing Inc.

REUSE RIGHTS FOR INDIVIDUAL PAPERS:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

DISCLAIMER OF LIABILITY

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: fns@scirp.org



Call for Papers

Food and Nutrition Sciences

ISSN Print: 2157-944X ISSN Online: 2157-9458

<http://www.scirp.org/journal/fns>

Food and Nutrition Sciences (FNS) is a peer reviewed international journal dedicated to the latest advancement in related areas. The goal of this journal is to keep a record of the state-of-the-art research and to promote study, research and improvement within its various specialties.

Subject Coverage

All manuscripts submitted to FNS must be previously unpublished and may not be considered for publication elsewhere at any time during FNS's review period. Additionally, accepted ones will immediately appear online followed by printed in hard copy. Topics to be covered by this journal include, but are not limited to:

- Animal Nutrition
- Antioxidants and Phytochemicals in Food
- Byproducts Processing and Utilization
- Calorie Intake and Consumption
- Carbohydrates and Fibers
- Clinical Nutrition
- Consumer Choice, Preferences, and Concerns
- Diets and Diseases
- Eating Disorders
- Food Chemistry, Engineering and Microbiology
- Food Conservation and Preparation
- Food Machinery
- Food Packaging
- Food Processing Technology
- Food Safety and Hygiene
- Food Science and Technology
- Grain and Oil Engineering
- Healthy Eating Initiatives
- Hormonal Regulations
- Malnutrition
- Maternal and Infant Nutrition
- Metabolism and Nutrition Physiology
- Molecular Gastronomy
- Nutrient Metabolism
- Nutrition and Immunology
- Obesity
- Proteins and Amino Acids
- Public Health Nutrition
- Sensory Analysis
- Sports Nutrition
- Vitamins and Minerals

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of FNS.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

<http://www.scirp.org/journal/fns>

E-mail: fns@scirp.org