



Food and **Nutrition Sciences**



Journal Editorial Board

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

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

Editor-in-Chief

Prof. Alessandra Bordoni University of Bologna, Italy

Associate Editors-in-Chief

Prof. Xufeng HuangUniversity of Wollongong, AustraliaProf. Michael G. KontominasUniversity of Ioannina, Greece

Editorial Board

Dr. Kayanush J. AryanaLouisiana State University, USADr. Lauri O. ByerleyLouisiana State University, USADr. Daniel CozzolinoThe University of Adelaide, AustraliaProf. Kelvin J. A. DaviesUniversity of Southern California, USA

Prof. Asim K. Duttaroy University of Oslo, Norway

Dr. Anthony Fardet Institute National de la Recherche Agronomique (INRA), France

Prof. Tomas GirbesUniversity of Valladolid, SpainDr. Beau K. GreerSacred Heart University, USADr. Jeffrey S. HamplArizona State University, USAProf. Yong HeZhejiang University, ChinaDr. Kimberly B. HeidalEast Carolina University, USA

Prof. Yu HuangChinese University of Hong Kong, ChinaProf. Federico InfascelliUniversity of Naples Federico II, Italy

Dr. Jagat R. KanwarDeakin University, AustraliaDr. Dalia El KhouryMead Johnson Nutrition, CanadaProf. Patricia A. KrukUniversity of South Florida, USADr. Jean-Claude LavoieUniversity of Montreal, CanadaDr. Josef Friedhelm MarxUniversity of Bonn, Germany

Dr. Francisco Javier Moreno Autonomous University of Madrid, Spain

Prof. Hasan MukhtarUniversity of Wisconsin, USADr. Maurice O'SullivanUniversity College Cork, IrelandDr. Mustafa Zafer OzelThe 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 PoureslamiInsta-Pro International, USADr. Jayadev RajuHealth Canada, CanadaProf. Sherif SabryMenoufia University, EgyptProf. Charles R. SanterrePurdue University, USADr. Mykola ShynkarykThe Ohio State University, USADr. Heidi J. SilverVanderbilt University, USAProf. Jesus Simal-GandaraUniversity of Vice Spain

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 WaniTechnical University of Munich, GermanyDr. Jack Wing Tak WongStanford University School of Medicine, USA

Volume 7 Number 10



August 2016

Table of Contents

Hypolipidemic and Antioxidative Effects of African Star Apple Juice (<i>Chrysophylum albidum</i>) on Rats Fed on Diets High in Cholesterol and Oil	
M. F. Bobadoye, O. O. Bamisi, V. N. Enujiugha	825
Daily Intake of a Commercially Available Vegetable Juice Has Beneficial Effects on Metabolic Syndrome-Related Biomarkers in Young, Healthy Japanese Adults	
K. Yoshida, M. Mori, T. Miyashita, S. Murakami, T. Inakuma, S. Sunabori, H. Suganuma, Y. Yamori	844
Whole Chia Flour as Yield Enhancer, Potential Antioxidant and Input of n-3 Fatty Acid in a Meat Product	
C. N. Riernersman, R. A. María, D. M. Marina, J. M. Alicia	855
The Effect of High Carbohydrate Consumption on Glucose Levels and Antibody Production in Nonobese Diabetic Mice	
T. A. da Silva, C. J. de Carvalho-Filho, E. de Sousa Barcelos Barroqueiro, D. C. das Chagas, F. R. F. Nascimento, R. N. M. Guerra	866
Celiac Disease Knowledge and Practice of Dietitians in Rural New South Wales, Australia	
L. Goodyer, L. J. Brown, E. Crowley	874
Evaluation of a Nutrition Intervention through a School-Based Food Garden to Improve Dietary Consumption, Habits and Practices in Children from the Third to Fifth Grade in Chile	
D. Vinueza, L. Lera, J. Salinas, C. G. González, L. Barrios, F. Vio	884
Shrinkage and Density Change of De-Boned Chicken Breast during Deep-Fat Frying	
L. S. Kassama, M. Ngadi	895
Impact of Plant-Based Antimicrobial Washes on Sensory Properties of Organic Leafy Greens	
K. Joshi, P. Sparks, M. Friedman, S. Ravishankar	906
Novel Approach to the Rapid Differentiation of Common <i>Prunus</i> Allergen Species by PCR Product Melt Analysis	
G. Nixon, L. Hall, T. Wilkes, M. Walker, M. Burns	920
Development of a Functional Food Product Using Guavas	
P. Patel, K. Ellis, R. Sunkara, L. Shackelford, S. Ogutu, L. T. Walker, J. Herring, M. Verghese	927

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 © 2016 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY). $\underline{ \text{http://creativecommons.org/licenses/by/4.0/} }$

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2016 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

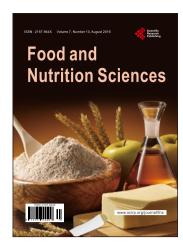
Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any 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





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

E-mail: fns@scirp.org

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