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April 27, 2011

Volume 59 Issue 8

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Yanshen Li, Zhanhui Wang, Ross C. Beier, Jianzhong Shen, David De Smet, Sarah De Saeger, and Suxia Zhang

pp 3441-3453

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DOI: 10.1021/jf200767q

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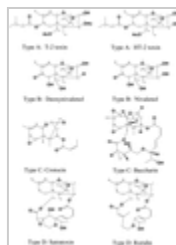
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Anita Rose Maguire

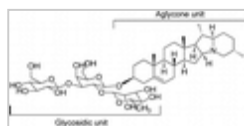
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X. Tiger Hu and Michaela A. Owens

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Ariel R. Fontana, Mónica Muñoz de Toro, and Jorgelina C. Altamirano

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Andrew C. Clark, Daniel A. Dias, Trevor A. Smith, Kenneth P. Ghiggino, and Geoffrey R. Scollary

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David P. Faria, Ana L. Fonseca, Helen Pereira, and Orlando M. N. D. Teodoro

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Eun-Young Kim, Tong-Kun Pai, and Okhee Han

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Elena Peñas, Juana Frias, Cristina Martínez-Villaluenga, and Concepción Vidal-Valverde

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Production of Carbohydrates, Lignins, and Minor Components from Triticale Straw by Hydrothermal Treatment





Carl Pronyk, Giuseppe Mazza, and Yukihiro Tamaki

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Jian Yao, Xin Jiong Fan, Yi Lu, and Yu Huan Liu

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Zipora Tietel, Ester Feldmesser, Efraim Lewinsohn, Elazar Fallik, and Ron Porat

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Monothiol Glutaredoxin cDNA from *Taiwanofungus camphorata*: A Novel CGFS-type Glutaredoxin Possessing Glutathione Reductase Activity

Chui-an-Fu Ken, I-Jing Chen, Chao-Ting Lin, Shiu-Mei Liu, Lisa Wen, and Chi-Tsai Lin

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Yuhya Wakasa, Chiharu Tamakoshi, Tomoki Ohno, Sakiko Hirose, Tsuyoshi Goto, Satoshi Nagaoka, and Fumio Takaiwa

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Haoran An, Zhengyuan Zhai, Sheng Yin, Yunbo Luo, Beizhong Han, and Yanling Hao

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Chemical Aspects of Food Safety




Fate of Pesticides during Beer Brewing

Tomonori Inoue, Yasushi Nagatomi, Keiko Suga, Atsuo Uyama, and Naoki Mochizuki

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Use of Murine Models To Detect the Allergenicity of Genetically Modified *Lactococcus lactis* NZ9000/pNZPNK

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Shen-Shih Chiang, Chin-Feng Liu, Ting-Wei Ku, Jeng-Leun Mau, Hsin-Tang Lin, and Tzu-Ming Pan

pp 3876-3883

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Chemical Changes Induced by Processing/Storage

Intense Degradation of Myosin Light Chain Isoforms in Spanish Dry-Cured Ham

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Leticia Mora, Miguel A. Sentandreu, and Fidel Toldrà

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Flavor and Quality Characteristics of Salted and Desalted Cod (*Gadus morhua*) Produced by Different Salting Methods

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Rósa Jónsdóttir, Kolbrún Sveinsdóttir, Hannes Magnússon, Sigurjón Arason, Kristin Lauritzen, and Kristin Anna Thorarinsdóttir

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Effect of Naturally Occurring Tetrapyrroles on Photooxidation in Cow's Milk





Diego Airado-Rodríguez, Natthorn Intawiwat, Josefine Skaret, and Jens Petter Wold

pp 3905-3914

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Conjugation of Bovine Serum Albumin and Glucose under Combined High Pressure and Heat





Roman Buckow, Johannes Wendorff, and Yacine Hemar

pp 3915-3923

Publication Date (Web): March 11, 2011 ([Article](#))

DOI: 10.1021/jf104336w

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Changes in Flavonoids and Nonphenolic Pigments during On-Tree Maturation and

Postharvest Pericarp Browning of Litchi (*Litchi chinensis* Sonn.) As Shown by HPLC-MSⁿ





Mareike Reichel, Reinhold Carle, Pittaya Sruamsiri, and Sybille Neidhart

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DOI: 10.1021/jf104432r

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Antioxidant Action of Glutathione and the Ascorbic Acid/Glutathione Pair in a Model White Wine

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Francesca Sonni, Andrew C. Clark, Paul D. Prenzler, Claudio Riponi, and Geoffrey R. Scollary

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Effect of Water Content on Thermal Behavior of Freeze-Dried Soy Whey and Their Isolated Proteins

Pablo A. Sobral, Gonzalo G. Palazolo, and Jorge R. Wagner

pp 3950-3956

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Production of Fibrinolytic Enzyme from *Bacillus amyloliquefaciens* by Fermentation of Chickpeas, with the Evaluation of the Anticoagulant and Antioxidant Properties of Chickpeas

Xuetuan Wei, Mingfang Luo, Lin Xu, Yewei Zhang, Xing Lin, Peng Kong, and Huizhou Liu

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Milling of Rice Grains. The Degradation on Three Structural Levels of Starch in Rice Flour Can Be Independently Controlled during Grinding

Thuy T. B. Tran, Kinnari J. Shelat, Daniel Tang, Enpeng Li, Robert G. Gilbert, and Jovin Hasjim

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Fermentation with *Aspergillus awamori* Enhanced Contents of Amino Nitrogen and Total Phenolics as Well as the Low-Density Lipoprotein Oxidation Inhibitory Activity of Black Soybeans

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Yu-Fei Chen, Shiow-Ling Lee, and Cheng-Chun Chou

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Chemical Composition of Foods/Feeds

Functional Properties and Characterization of Dietary Fiber from *Mangifera pajang* Kort. Fruit Pulp [Abstract](#)

Pulp





Sadeq Hassan Al-Sheraji, Amin Ismail, Mohd Yazid Manap, Shuhaimi Mustafa, Rokiah Mohd Yusof, and Fouad

Abdulrahman Hassan

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Mechanochemical-Assisted Extraction and Antioxidant Activities of Kaempferol Glycosides from *Camellia oleifera* Abel. Meal [Abstract](#)

Xing Yi Zhu, Hai Min Lin, Xiu Chen, Jie Xie, and Ping Wang

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Phenolic Profile and Hydrophilic Antioxidant Capacity as Chemotaxonomic Markers of Tomato Varieties [Abstract](#)

Anna Vallverdú-Queralt, Alexander Medina-Remón, Míriam Martínez-Huelamo, Olga Jáuregui, Cristina Andres-Lacueva, and Rosa Maria Lamuela-Raventos

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Starch Waxiness in Hexaploid Wheat (*Triticum aestivum* L.) by NIR Reflectance Spectroscopy [Abstract](#)

Stephen R. Delwiche, Robert A. Graybosch, Paul St. Amand, and Guihua Bai

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Separation, Characterization and Quantification of Phenolic Compounds in Blueberries and [Abstract](#)





Red and Black Currants by HPLC-DAD-ESI-MSⁿ

Verka Gavrilova, Marina Kajdžanoska, Viktor Gjamovski, and Marina Stefova

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Seed Oil and Fatty Acid Content in Okra (*Abelmoschus esculentus*) and Related Species [Abstract](#)

Robert L. Jarret, Ming Li Wang, and Irvin J. Levy

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In Vitro Fermentation of Bacterial Cellulose Composites as Model Dietary Fibers [Abstract](#)

Deirdre Mikkelsen, Michael J. Gidley, and Barbara A. Williams

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Identification and Characterization of Two New Derivatives of Chlorogenic Acids in Arnica (*Arnica montana* L.) Flowers by High-Performance Liquid Chromatography/Tandem Mass Spectrometry





Rakesh Jaiswal and Nikolai Kuhnert

pp 4033-4039

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Evaluation of Detoxification Methods on Toxic and Antinutritional Composition and Nutritional Quality of Proteins in *Jatropha curcas* Meal





Jianhui Xiao, Hui Zhang, Liya Niu, Xingguo Wang, and Xia Lu

pp 4040-4044

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Environmental Chemistry

Sorption–Desorption of Aminocyclopyrachlor in Selected Brazilian Soils





Rubem S. Oliveira, Jr., Diego G. Alonso, and William C. Koskinen

pp 4045-4050

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Flavors and Aromas/Chemosensory Perception

Losses of Dissolved CO₂ Through the Cork Stopper during Champagne Aging: Toward a

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Multiparameter Modeling

G rard Liger-Belair and Sandra Villaume

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Easy Access to Aroma Active Unsaturated  -Lactones by Addition of Modified Titanium Homoenate to Aldehydes





Eric Frerot and Alain Bagnoud

pp 4057-4061

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Chemical Characterization of Commercial Sherry Vinegar Aroma by Headspace Solid-Phase Microextraction and Gas Chromatography–Olfactometry





Laura Ace a, Luciano Vera, Josep Guasch, Olga Busto, and Montserrat Mestres

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Food Chemistry/Biochemistry





Mechanical and Water-Holding Properties and Microstructures of Soy Protein Isolate Emulsion Gels Induced by CaCl₂, Glucono- -lactone (GDL), and Transglutaminase: Influence of Thermal Treatments before and/or after Emulsification

Chuan-He Tang, Ling Chen, and Edward Allen Foegeding

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Effect of Solutes and Matrix Structure on Water Mobility in Glycerol–Agar–Water Gel Systems: A Nuclear Magnetic Resonance Approach





Yang Huang, Erika Davies, and Peter Lillford

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Potentiality of Red Sorghum for Producing Stilbenoid-Enriched Beers with High Antioxidant Activity





Meike Brđhan, Vesna Jerkovic, and Sonia Collin

pp 4088-4094

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Comparative Effects of Conjugated Linoleic Acid (CLA) and Linoleic Acid (LA) on the Oxidoreduction Status in THP-1 Macrophages





Marta Rybicka, Ewa Stachowska, Izabela Gutowska, Mitosz Parczewski, Magdalena Baškiewicz, Bogustaw Machaliński, Anna Boroń-Kaczmarek, and Dariusz Chlubek

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Changes in Esculeoside A Content in Different Regions of the Tomato Fruit during Maturation and Heat Processing

Akiko Katsumata, Mizuki Kimura, Hiromi Saigo, Kei Aburaya, Masako Nakano, Tsuyoshi Ikeda, Yukio Fujiwara, and Ryoji Nagai

pp 4104-4110

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Emulsifying and Foaming Properties of Ultraviolet-Irradiated Egg White Protein and Sodium

Caseinate

Yau-Hoong Kuan, Rajeev Bhat, and Alias A. Karim

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Supercritical Carbon Dioxide Micronization of Zeaxanthin from Moderately Thermophilic

Bacteria *Muricauda lutaonensis* CC-HSB-11^T

Asif Hameed, A. B. Arun, Hsin-Pin Ho, Chieh-Ming J. Chang, P. D. Rekha, Maw-Rong Lee, Satnam Singh, and Chiu-

Chung Young

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Classification of Pumpkin Seed Oils According to Their Species and Genetic Variety by Attenuated Total Reflection Fourier-Transform Infrared Spectroscopy

Yanelis Saucedo-Hernández, María Jesús Lerma-García, José Manuel Herrero-Martínez, Guillermo Ramis-Ramos, Elisa Jorge-Rodríguez, and Ernesto F. Simón-Alfonso

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Cloning and Characterization of 2S Albumin, Car i 1, a Major Allergen in Pecan

Girdhari M. Sharma, Andre Irsigler, Pushparani Dhanarajan, Rosalia Ayuso, Luda Bardina, Hugh A. Sampson,

Kenneth H. Roux, and Shridhar K. Sathe

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Catabolism of L-Ascorbate by *Lactobacillus rhamnosus* GG

Denis Linares, Philippe Michaud, Anne-Marie Delort, Mounir Traïkia, and Jerome Warrand

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Bioengineering of *Leuconostoc mesenteroides* Glucansucrases That Gives Selected Bond Formation for Glucan Synthesis and/or Acceptor-Product Synthesis

Hee Kyoung Kang, Atsuo Kimura, and Doman Kim

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Effect of Brown Seaweed Lipids on Fatty Acid Composition and Lipid Hydroperoxide Levels of Mouse Liver

M. K. Widjaja-Adhi Airantheni, Naoya Sasaki, Sayaka Iwasaki, Nobuko Baba, Masayuki Abe, Masashi Hosokawa, and

Kazuo Miyashita

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Preventive Effect of α,α -Conjugated Linoleic Acid on 12-O-Tetradecanoylphorbol-13-acetate-Induced Inhibition of Gap Junctional Intercellular Communication in Human Mammary Epithelial MCF-10A Cells

Md. Abdur Rakib, Young S. Kim, Wook J. Jang, Joung S. Jang, Seok J. Kang, and Yeong L. Ha

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Hyperoxygenation and Bottle Storage of Chardonnay White Wines: Effects on Color-Related Phenolics, Volatile Composition, and Sensory Characteristics

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María Jesús Cejudo-Bastante, Isidro Hermosín-Gutiérrez, Lucía Isabel Castro-Vázquez, and María Soledad Pérez-Coello

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Reactivity of Beer Bitter Acids Toward the 1-Hydroxyethyl Radical as Probed by Spin-Trapping Electron Paramagnetic Resonance (EPR) and Electrospray Ionization–Tandem Mass Spectrometry (ESI–MS/MS)

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Natália E. C. de Almeida, Paula Homem-de-Mello, Denis De Keukeleire, and Daniel R. Cardoso

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Antihyperlipidemic and Body Fat-Lowering Effects of Silk Proteins with Different Fibroin/Sericin Compositions in Mice Fed with High Fat Diet

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Chung-Won Seo, In Chul Um, Catherine W. Rico, and Mi Young Kang

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Phytochemical Changes Induced by Different Nitrogen Supply Forms and Radiation Levels in Two Leafy *Brassica* Species

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Carlo Fallovo, Monika Schreiner, Dietmar Schwarz, Giuseppe Colla, and Angelika Krumbein




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Structural Characterization of Peruvian Carrot (*Arracacia xanthorrhiza*) Starch and the Effect of Annealing on Its Semicrystalline Structure

Thais S. Rocha, Verena A. G. Cunha, Jay-Iin Jane, and Celia M. L. Franco

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N-Acetyl-d-Galactosamine-Specific Lectin Isolated from the Seeds of *Carica papaya*

Teng-Hsu Wang, Yen-Lun Kung, Min-Hsiung Lee, and Nan-Wei Su

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Effects of Mass Ratio, pH, Temperature, and Reaction Time on Fabrication of Partially Purified Pomegranate Ellagitannin-Gelatin Nanoparticles

Zheng Li and Liwei Gu

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Effect of Enzymatic Randomization on Positional Distribution and Stability of Seal Blubber and Menhaden Oils

Jiankang Wang and Fereidoon Shahidi

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Adsorption Behavior of the Catechins and Caffeine onto Polyvinylpyrrolidone

Zhan-Bo Dong, Yue-Rong Liang, Fang-Yuan Fan, Jian-Hui Ye, Xin-Qiang Zheng, and Jian-Liang Lu

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Molecular Nutrition

Effects of *Antrodia camphorata* on Alcohol Clearance and Antifibrosis in Livers of Rats Continuously Fed Alcohol

Min-Tze Wu, Bor-Show Tzang, Yuan-Yen Chang, Chih-Hsien Chiu, Wen-Yu Kang, Chia-Hsin Huang, and Yi-Chen Chen

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N-Linked Glycan Profiling of Mature Human Milk by High-Performance Microfluidic Chip Liquid Chromatography Time-of-Flight Tandem Mass Spectrometry

David C. Dallas, William F. Martin, John S. Strum, Angela M. Zivkovic, Jennifer T. Smilowitz, Mark A. Underwood, Michael Affolter, Carlito B. Lebrilla, and J. Bruce German

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Resveratrol Reduces the Invasive Growth and Promotes the Acquisition of a Long-Lasting Differentiated Phenotype in Human Glioblastoma Cells


Roberta Castino, Anja Pucer, Roberta Veneroni, Federica Morani, Claudia Peracchio, Tamara T. Lah, and Ciro Isidoro

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Free Cyclitol, Soluble Carbohydrate and Protein Contents in *Vigna unguiculata* and *Phaseolus vulgaris* Bean Sprouts

Elane da Silva Ribeiro, Danilo da Cruz Centeno, Rita de Cássia Figueiredo-Ribeiro, Kátia Valevski Sales Fernandes, José Xavier-Filho, and Antônia Elenir Amancio Oliveira

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Acute Administration of Grape Seed Proanthocyanidin Extract Modulates Energetic Metabolism in Skeletal Muscle and BAT Mitochondria

D. Pajuelo, S. Díaz, H. Quesada, A. Fernández-Iglesias, M. Mulero, A. Arola-Arnal, M. J. Salvadó, C. Bladé, and L. Arola

pp 4279-4287

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Toxicology in Agriculture and Food

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