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November 26, 2008

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Biocatalysis for the Production of Industrial Products and Functional Foods from Rice and Other Agricultural Produce

Casimir C. Akoh, Shu-Wei Chang, Guan-Chiun Lee and Jei-Fu Shaw

pp 10445-10451

Publication Date (Web): October 22, 2008 (Review)

DOI: 10.1021/jf801928e

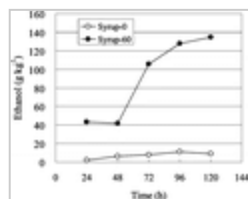


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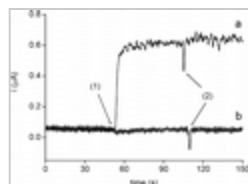
Amperometric Determination of Ascorbic Acid in Real Samples Using a Disposable Screen-Printed Electrode Modified with Electrografted *o*-Aminophenol Film

Laia Civit, Hossam M. Nassef, Alex Frago and Ciara K. O'Sullivan

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DOI: 10.1021/jf802536k



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Chemistry and Toxicology of Acrylamide Special Issue

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Jorge A. Cruz-Aguado and Gregory Penner

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Bioactive Constituents

Chemical Compositions and Antioxidant/Anti-inflammatory Activities of Steam Distillate from Freeze-Dried Onion (*Allium cepa* L.) Sprout





Mizuho Takahashi and Takayuki Shibamoto

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DOI: 10.1021/jf801220b

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Antimicrobial Activity of the Ornamental Species *Salvia corrugata*, a Potential New Crop for Extractive Purposes





Angela Bisio, Giovanni Romussi, Eleonora Russo, Sergio Cafaggi, Anna Maria Schito, Barbara Repetto and Nunziatina De Tommasi

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Phenolic Derivatives from Soy Flour Ethanol Extract Are Potent In Vitro Quinone Reductase (QR) Inducing Agents





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Preparation and Biological Properties of a Melibiose Binding Lectin from *Bauhinia variegata* Seeds





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In Vitro Digestion of Betalainic Foods. Stability and Bioaccessibility of Betaxanthins and Betacyanins and Antioxidative Potential of Food Digesta





Luisa Tesoriere, Marco Fazzari, Francesca Angileri, Carla Gentile and Maria A. Livrea

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Sesquiterpenoids Isolated from the Flower Buds of *Tussilago farfara* L. Inhibit Diacylglycerol Acyltransferase





Hye Ran Park, Mi Young Yoo, Jee Hee Seo, Il Soon Kim, Nam Ye Kim, Ji Yun Kang, Long Cui, Chang-Soo Lee, Chul-Ho Lee and Hyun Sun Lee

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α -Eleostearic Acid and Its Dihydroxy Derivative Are Major Apoptosis-Inducing Components of Bitter Gourd

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β-Conglycinin Embeds Active Peptides That Inhibit Lipid Accumulation in 3T3-L1 Adipocytes in Vitro





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Crystal and Molecular Structure of Piceatannol; Scavenging Features of Resveratrol and Piceatannol on Hydroxyl and Peroxyl Radicals and Docking with Transthyretin





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Selenocystine Induces S-Phase Arrest and Apoptosis in Human Breast Adenocarcinoma MCF-7 Cells by Modulating ERK and Akt Phosphorylation





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Authentication of Anglerfish Species (*Lophius spp*) by Means of Polymerase Chain Reaction–Restriction Fragment Length Polymorphism (PCR–RFLP) and Forensically Informative Nucleotide Sequencing (FINS) Methodologies

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Protective Effect of Anthocyanins from Black Soybean Seed Coats on UVB-Induced Apoptotic Cell Death in Vitro and in Vivo

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Juan Andres Vallejo, Jose Manuel Ageitos, Margarita Poza and Tomas G. Villa

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Ochratoxin A Contamination in Italian Wine Samples and Evaluation of the Exposure in the Italian Population

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Dialkylphosphates (DAPs) in Fruits and Vegetables May Confound Biomonitoring in Organophosphorus Insecticide Exposure and Risk Assessment





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Synthesis of Methacrylic-Ferulic Acid Copolymer with Antioxidant Properties by Single-Step Free Radical Polymerization





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Chemical Changes Induced by Processing/Storage

Fractionation of Antioxidants from Autohydrolysis of Barley Husks





Enma Conde, Andrés Moure, Herminia Domínguez and Juan Carlos Parajó

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Reaction Kinetics of Gliadin–Glutenin Cross-Linking in Model Systems and in Bread Making





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Impact of Postharvest Disease Control Methods and Cold Storage on Volatiles, Color Development and Fruit Quality in Ripe ‘Kensington Pride’ Mangoes





Khuyen T. H. Dang, Zora Singh and Ewald E. Swinny

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Processing Stability of Squalene in Amaranth and Antioxidant Potential of Amaranth Extract





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Fatty Acid Effect on Hydroxypropyl Methylcellulose–Beeswax Edible Film Properties and Postharvest Quality of Coated ‘Ortanique’ Mandarins

Maria LI. Navarro-Tarazaga, Miguel A. Del RÍo, John M. Krochta and Maria B. Pérez-Gago

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Model Studies on the Oxygen-Induced Formation of Benzaldehyde from Phenylacetaldehyde Using Pyrolysis GC-MS and FTIR

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Chemical Composition of Foods/Feeds




High-Throughput Technique for Comprehensive Analysis of Japanese Green Tea Quality Assessment Using Ultra-performance Liquid Chromatography with Time-of-Flight Mass Spectrometry (UPLC/TOF MS)

Wipawee Pongsuwan, Takeshi Bamba, Kazuo Harada, Tsutomu Yonetani, Akio Kobayashi and Eiichiro Fukusaki

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Perchlorate, Nitrate, Thiocyanate, and Iodide Levels in Chicken Feed, Water, and Eggs from Three Farms





Benjamin C. Blount, Aysel Özpınar, K. Udeni Alwis, Samuel P. Caudill and Jerry R. Gillespie

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Evaluation of the Botanical Origin of Estonian Uni- and Polyfloral Honeys by Amino Acid Content





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In Vitro Digestion Characteristics of Unprocessed and Processed Whole Grains and Their Components





David C. Hernot, Thomas W. Boileau, Laura L. Bauer, Kelly S. Swanson and George C. Fahey, Jr.

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Suparat Sirisakulwat, Andreas Nagel, Pittaya Sruamsiri, Reinhold Carle and Sybille Neidhart

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María P. Serratos, Azahara Lopez-Toledano, Manuel Medina and Julieta Merida

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High Potential for Selenium Biofortification of Lentils (*Lens culinaris* L.)

Dil Thavarajah, Jamie Ruszkowski and Albert Vandenberg

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Physical Characters and Antioxidant, Sugar, and Mineral Nutrient Contents in Fruit from 29 Apricot (*Prunus armeniaca* L.) Cultivars and Hybrids

Pavlina D. Drogoudi, Stavros Vemmos, Georgios Pantelidis, Evangelia Petri, Chrysoula Tzoutzoukou and Irene



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Xiaoyan Zhao, Margarita Corrales, Chao Zhang, Xiaosong Hu, Yue Ma and Bernhard Tauscher

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Synthesis, Fungicidal, and Insecticidal Activities of β -Methoxyacrylate-Containing *N*-Acetyl Pyrazoline Derivatives





Pei-Liang Zhao, Fu Wang, Ming-Zhi Zhang, Zu-Ming Liu, Wei Huang and Guang-Fu Yang

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Efficacy of Fe(*o,o*-EDDHA) and Fe(*o,p*-EDDHA) Isomers in Supplying Fe to Strategy I Plants Differs in Nutrient Solution and Calcareous Soil





Carmen L. Rojas, Francisco J. Romera, Esteban Alcántara, Rafael Pérez-Vicente, Cristina Sariego, J. Ignacio García-Alonso, Javier Boned and Gabriel Martí

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Organophosphorus Derivatives Containing Isatin-3-hydrazones as Chemotherapeutants against Fungal Pathogens of Sugarcane





V. K. Pandey, A. Dwivedi, O. P. Pandey and S. K. Sengupta

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Hongying Du, Jie Wang, Zhide Hu, Xiaojun Yao and Xiaoyun Zhang

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Factors Affecting the Synergy of Thiabendazole, Sodium Bicarbonate, and Heat To Control Postharvest Green Mold of Citrus Fruit

Mario Schirra, Salvatore D'Aquino, Amedeo Palma, Alberto Angioni and Paolo Cabras

pp 10793-10798

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Synthesis and Insecticidal Activities of Novel *N*-Sulfenyl-*N'*-*tert*-butyl-*N,N'*-diacylhydrazines. 3. *N*-(Alkyldithio), *N*-(Aminothio), and *N,N*-Dithio Derivatives

Qiqi Zhao, Xiaoming Ou, Zhiqiang Huang, Fuchun Bi, Runqiu Huang and Qingmin Wang

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Synthesis and Biological Activities of Novel Pyrazole Oxime Derivatives Containing a 2-Chloro-5-thiazolyl Moiety

Hong Dai, Yong-Qiang Li, Ding Du, Xue Qin, Xin Zhang, Hai-Bo Yu and Jian-Xin Fang

pp 10805-10810

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Yusuke Suzuki and Toshiyuki Katagi

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Predicting Bioavailability of PAHs in Soils to Wheat Roots with Triolein-Embedded Cellulose Acetate Membranes and Comparison with Chemical Extraction

Yuqiang Tao, Shuzhen Zhang, Zijian Wang and Peter Christie

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Fenhexamid Adsorption Behavior on Soil Amended with Wine Lees

Maria Vittoria Pinna, Marilena Budroni, Giovanni Antonio Farris and Alba Pusino

pp 10824-10828

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Flavors and Aromas/Chemosensory Perception

Coinoculated Fermentations Using *Saccharomyces* Yeasts Affect the Volatile Composition and Sensory Properties of *Vitis vinifera* L. cv. Sauvignon Blanc Wines

Ellena S. King, Jan H. Swiegers, Brooke Travis, I. Leigh Francis, Susan E. P. Bastian and Isak S. Pretorius

pp 10829-10837

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Effects of Cluster Light Exposure on 3-Isobutyl-2-methoxypyrazine Accumulation and Degradation Patterns in Red Wine Grapes (*Vitis vinifera* L. Cv. Cabernet Franc)





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Imelda Ryona, Bruce S. Pan, Diego S. Intrigliolo, Alan N. Lakso and Gavin L. Sacks

pp 10838-10846

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Chemical Characterization and DNA Tracking of Sardinian Botargo by *Mugil cephalus* from Different Geographical Origins

Andrea Barra, Vincenzo Luigi Garau, Sandro Dessi, Giorgia Sarais, Elisabetta Cereti, Marco Arlorio, Jean Daniel





Coisson and Paolo Cabras

pp 10847-10852

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Anthocyanin Composition of Wild Bananas in Thailand

Kasipong Kitdamrongsont, Pongsagon Pothavorn, Sasivimon Swangpol, Siripope Wongniam, Kanokporn Atawongsa,





Jisnuson Svasti and Jamorn Somana

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Nonspecific Activity of *Bacillus acidopullulyticus* Pullulanase on Debranching of Guar Galactomannan





Mysore S. Shobha and Rudrapatnam N. Tharanathan

pp 10858-10864

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Validation of a tRNA-*Glu*-cytochrome *b* Key for the Molecular Identification of 12 Hake Species (*Merluccius* spp.) and Atlantic Cod (*Gadus morhua*) Using PCR-RFLPs, FINS, and BLAST



Montse Pérez and Pablo Presa

pp 10865-10871

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Purification and Characterization of an α -Mannosidase from the Tropical Fruit Babaco (*Vasconcellea x Heilbornii* Cv. Babaco)

Hans Blom, Fernanda Reyes and Jan Carlsson

pp 10872-10878

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Glucose Release of Water-Soluble Starch-Related α -Glucans by Pancreatin and Amyloglucosidase Is Affected by the Abundance of α -1,6-Glucosidic Linkages

Jin-E Shin, Senay Simsek, Bradley L. Reuhs and Yuan Yao

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Ramesh R. Yettella and David B. Min

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Protein Recovery in Soymilk and Various Soluble Fractions as a Function of Genotype Differences, Changes during Heating, and Homogenization

Amir Malaki Nik, Susan M. Tosh, Vaino Poysa, Lorna Woodrow and Milena Corredig

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Dual Modification of Starch via Partial Enzymatic Hydrolysis in the Granular State and Subsequent Hydroxypropylation

A. A. Karim, E. H. Sufha and I. S. M. Zaidul

pp 10901-10907

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Utilization of Monolinolein as a Substrate for Conjugated Linoleic Acid Production by *Bifidobacterium breve* LMC 520 of Human Neonatal Origin

Nag Jin Choi, Hui Gyu Park, Young Jun Kim, In Hwan Kim, Hye Soon Kang, Chil Suk Yoon, Ho Geun Yoon, Su-il

Park, Jae Woo Lee and Soo Hyun Chung

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Effects of Transglutaminase Catalysis on the Functional and Immunoglobulin Binding Properties of Peanut Flour Dispersions Containing Casein

Debra A. Clare, Greg Gharst, Sohelia J. Maleki and Timothy H. Sanders

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Comparative Proteomical Analysis of Zygotic Embryo and Endosperm from *Coffea arabica*

Seeds

Lívia L. Koshino, Clarissa P. Gomes, Luciano P. Silva, Mirian T. S. Eira, Carlos Bloch Jr., Octávio L. Franco and Angela Mehta

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Nonstarch Polysaccharides in Wheat Flour Wire-Cut Cookie Making

Mary J. Guttieri, Edward J. Souza and Clay Sneller

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Oxidation of Skeletal Muscle Myofibrillar Proteins in Oil-in-Water Emulsions: Interaction with Lipids and Effect of Selected Phenolic Compounds

Mario Estévez, Petri Kylli, Eero Puolanne, Riitta Kivikari and Marina Heinonen

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Influence of Electron-Beam Irradiation on Bioactive Compounds in Grapefruits (*Citrus paradisi* Macf.)

Basavaraj Girenavar, G. K. Jayaprakasha, Sara E. McIn, Joe Maxim, Kil Sun Yoo and Bhimanagouda S. Patil

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Allergen from Tartary Buckwheat

Xin Zhang, Jing Ming Yuan, Xiao Dong Cui and Zhuan Hua Wang

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Isomerization of Lactose-Derived Oligosaccharides: A Case Study Using Sodium Aluminate

Alejandra Cardelle-Cobas, Nieves Corzo, Mar Villamiel and Agustín Olano

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New Lipophilic Tyrosyl Esters. Comparative Antioxidant Evaluation with Hydroxytyrosyl Esters

Raquel Mateos, Mariana Trujillo, Gema Pereira-Caro, Andrés Madrona, Arturo Cert and José Luis Espartero

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Effect of Dietary Ligands and Food Matrices on Zinc Uptake in Caco-2 Cells: Implications in Assessing Zinc Bioavailability

Kilari Sreenivasulu, Pullakhandam Raghu, Punjal Ravinder and K. Madhavan Nair

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Comparative Study on Free Amino Acid Composition of Wild Edible Mushroom Species





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Barbara Ribeiro, Paula B. Andrade, Branca M. Silva, Paula Baptista, Rosa M. Seabra and Patrícia Valentão

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Role of Vinylcatechin in the Formation of Pyranomalvidin-3-glucoside-(+)-Catechin

Luis Cruz, Natércia Teixeira, Artur M. S. Silva, Nuno Mateus, Jose Borges and Victor de Freitas

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Optimization of Lipase-Catalyzed Synthesis of Ginsenoside Rb1 Esters Using Response Surface Methodology

Jiang-Ning Hu, Jeung-Hee Lee, Xue-Mei Zhu, Jung-Ah Shin, Prakash Adhikari, Jae-Kyung Kim and Ki-Teak Lee

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Particle Size Reduction Effectively Enhances the Cholesterol-Lowering Activities of Carrot Insoluble Fiber and Cellulose

Sze-Yuan Chou, Po-Jung Chien and Chi-Fai Chau


pp 10994-10998

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Bioaccessibility of Phenols in Common Beans (*Phaseolus vulgaris* L.) and Iron (Fe) Availability to Caco-2 Cells

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José Moisés Laparra, Raymond P. Glahn and Dennis D. Miller

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Nutritional Responses of Rats to Diets Based on Chickpea (*Cicer arietinum* L.) Seed Meal or Its Protein Fractions





Olga Luisa Tavano, Sinézio Inácio da Silva, Jr., Aureluce Demonte and Valdir Augusto Neves

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Identification of Human Intracellular Targets of the Medicinal Herb St. John's Wort by Chemical-Genetic Profiling in Yeast





Patrick P. McCue and James M. Phang

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Effect of a Proanthocyanidin-Rich Extract from Longan Flower on Markers of Metabolic Syndrome in Fructose-Fed Rats





Hui-Yun Tsai, Liang-Yi Wu and Lucy Sun Hwang

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You-Zhi Tang and Zai-Qun Liu

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Naringenin and Hesperetin Induce Growth Arrest, Apoptosis, and Cytoplasmic Fat Deposit in Human Preadipocytes

Keiko Morikawa, Mitsuko Nonaka, Hiromi Mochizuki, Kie Handa, Haruka Hanada and Kaori Hirota

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Toxicology in Agriculture and Food





Safety and Mutagenicity Evaluation of Nanoparticulate Red Mold Rice

Chiun-Chieh Yu, Jyh-Jye Wang, Chun-Lin Lee, Shu-Hui Lee and Tzu-Ming Pan

pp 11038-11048

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Plasma and Tissue Depletion of Florfenicol and Florfenicol-amine in Chickens

Arturo Anadón, María Aranzazu Martínez, Marta Martínez, Alba Ríos, Virginia Caballero, Irma Ares and María Rosa Martínez-Larrañaga

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Impact of Biotransformation and Bioavailability on the Toxicity of the Insecticides α -Cypermethrin and Chlorfenvinphos in Earthworm





Thomas Hartnik and Bjarne Styrishave

pp 11057-11064

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