



# Most-Accessed Articles

from a Highly Cited Leader in Biochemistry, Biophysical Chemistry & Molecular Biology

Listed below are the ten most-accessed articles during 2008. Go to the *Biochemistry* homepage at [pubs.acs.org/biochemistry](http://pubs.acs.org/biochemistry) to view lists of most-read and most-cited articles from the journal.

Editor: Richard N. Armstrong, *Vanderbilt University School of Medicine*

**Farnesyl Diphosphate Synthase. Altering the Catalytic Site To Select for Geranyl Diphosphate Activity**  
Suzanne M. Stanley-Fernandez, Brenda A. Kellogg, and C. Dale Pautler  
**[Article]**, 2008, 39 (50), 15316-15321  
DOI: 10.1021/bi8014305

**Free-Energy Landscape of Enzyme Catalysis**  
Stephen J. Benkovic, Gordon G. Hammes, and Sharon Hammes-Schiffer  
**[New Concepts]**, 2008, 47 (31), 3317-3321  
DOI: 10.1021/bi800049z

**The Glycosylphosphatidylinositol Anchor: A Complex Membrane-Anchoring Structure for Proteins**  
Margot G. Faulick, and Carolyn R. Bertozzi  
**[Current Topics/Perspectives]**, 2008, 47 (27), 6991-7000  
DOI: 10.1021/bi8006124

**AFM: A Nanotool in Membrane Biology**  
Daniel J. Muller  
**[Current Topics/Perspectives]**, 2008, 47 (31), 7986-7998  
DOI: 10.1021/bi800753x

**DNA Polymerases as Therapeutic Targets**  
Anthony J. Berdis  
**[Current Topics/Perspectives]**, 2008, 47 (32), 8253-8260  
DOI: 10.1021/bi801179f

**Phospholamban Thiols Play a Central Role in Activation of the Cardiac Muscle Sarcoplasmic Reticulum Calcium Pump by Nitroxy**  
Jeffrey P. Froehlich, James E. Mahaney, Gizem Keceli, Christopher M. Pavlos, Russell Goldstein, Abiona J. Redwood, Carlota Sumbilla, Dong L. Lee, Carlo G. Tocchetti, David A. Kass, Nazareno Pasolunghi, and John P. Toscano  
**[Rapid Report]**, 2008, 47 (50), 13150-13152  
DOI: 10.1021/bi801925p

**Misfolding of the Cystic Fibrosis Transmembrane Conductance Regulator and Disease**  
Joanne C. Cheung and Charles M. Deber  
**[Current Topics/Perspectives]**, 2008, 47 (6), 1465-1473  
DOI: 10.1021/bi702209s

**Residence Time of Receptor-Ligand Complexes and Its Effect on Biological Function**  
Peter J. Tummino and Robert A. Copeland  
**[Current Topics/Perspectives]**, 2008, 47 (20), 5461-5492  
DOI: 10.1021/bi800202z

**Analysis of Hsp90 Cochaperone Interactions Reveals a Novel Mechanism for TPR Protein Recognition**  
Ahmed Chadli, Elizabeth S. Bruinsma, Bridget Stensgaard, and David Tuft  
**[Article]**, 2008, 47 (9), 2850-2857  
DOI: 10.1021/bi702333z

**Revisiting Heme Mechanisms. A Perspective on the Mechanisms of Nitric Oxide Synthase (NOS), Heme Oxygenase (HO), and Cytochrome P450s (CYP450s)**  
Yaoqiu Zhu, and Richard B. Silverman  
**[Current Topics/Perspectives]**, 2008, 47 (8), 2231-2243  
DOI: 10.1021/bi7023817

## ANALYTICAL METHODS

- 2055** ■ **Quantitative Measurement of Betaine and Free Choline in Plasma, Cereals and Cereal Products by Isotope Dilution LC-MS/MS**  
*Stephen J. Bruce, Philippe A. Guy, Serge Rezzi, and Alastair B. Ross\**
- 2062** ■ **Quantification of the Antioxidant Capacity of Different Molecules and Their Kinetic Antioxidant Efficiencies**  
*Jose Luis Munoz-Munoz, Francisco Garcia-Molina, Ramon Varon, Jose Tudela, Francisco Garcia-Cánovas,\* and Jose Neptuno Rodriguez-Lopez*
- 2071** **Sequential Injection Lab-on-Valve System for the Determination of the Activity of Peroxidase in Vegetables**  
*Susana S. M. P. Vidigal, Ildikó V. Tóth, and António O. S. S. Range\**
- 2076** **Investigation into the Formation of Guaiacol Conjugates in Berries and Leaves of Grapevine *Vitis vinifera* L. Cv. Cabernet Sauvignon Using Stable Isotope Tracers Combined with HPLC-MS and MS/MS Analysis**  
*Yoji Hayasaka,\* Gayle A. Baldock, Kevin H. Pardon, David W. Jeffery, and Markus J. Herderich*
- 2082** **Identification of the Botanical Origin of Pine Nuts Found in Food Products by Gas-Liquid Chromatography Analysis of Fatty Acid Profile**  
*Frédéric Destaillets,\* Cristina Cruz-Hernandez, Francesca Guffreida, and Fabiola Dionisi*
- 
- ## BIOACTIVE CONSTITUENTS
- 2088** **Simultaneous Detection of Pro- and Antioxidative Effects in the Variants of the Deoxyribose Degradation Assay**  
*Vladimir Chobot\**
- 2095** **Safety and Pharmacokinetics of a Solid Lipid Curcumin Particle Formulation in Osteosarcoma Patients and Healthy Volunteers**  
*Vikram S. Gota,\* Girish B. Maru, Tejal G. Soni, Tejal R. Gandhi, Nitin Kochar, and Manish G. Agarwal*
- 2100** **Chemical Analysis and Screening as Anticancer Agent of Anthocyanin-Rich Extract from *Uva Ulpimara* (*Pourouma cecropifolia* Mart.) Fruit**  
*Julliana Barrios, Claudia Patricia Cordero, Fabio Aristizabal, Francisco José Heredia, Alicia Lucía Morales, and Coralía Osorio\**
- 2111** **Pretreatment with Natural Flavones and Neuronal Cell Survival after Oxidative Stress: A Structure-Activity Relationship Study**  
*Carolina Echeverry,\* Florencia Arredondo, Juan Andres Abin-Carriquiry, Jacob Ogwenso Mudiwo, Charles Ochieng, Leonidah Kerubo, and Federico Dajas*

- 2116 **Lipid-Lowering and Antioxidant Effects of an Ethyl Acetate Extract of Fenugreek Seeds in High-Cholesterol-Fed Rats**  
*Olfa Belguith-Hadrieh,\* Mohamed Bosaziz, Kamel Jamoussi, Abdelfattah El Feki, Sami Sayadi, and Fatma Makni-Ayed*
- 2123 **Genotypic and Climatic Influence on the Antioxidant Activity of Flavonoids in Kale (*Brassica oleracea* var. *sabellica*)**  
*Michaela Zietz, Anika Weckmüller, Susanne Schmidt, Sascha Rohm,\* Monika Schreiner, Angelika Kränlein, and Lothar W. Kroh*
- 2131 **Biochemical Characterization of the  $\alpha$ -Amylase Inhibitor in Mungbeans and Its Application in Inhibiting the Growth of *Callosobruchus maculatus***  
*Anussorn Wisessing, Aranee Engkagul, Aranee Wongpiyasatit, and Kiattavee Choowongkamon\**
- 2138 **Catechin Glucosides: Occurrence, Synthesis, and Stability**  
*Thomas Raab, Denis Barron, Franca Arce Vera, Vanessa Crespy, Manuel Oliveira, and Gary Williamson\**
- 2150 **Antioxidant and Anti-Inflammatory Effects of *Orthosiphon aristatus* and Its Bioactive Compounds**  
*Chin-Lin Hsu, Bo-Han Hong, Yu-Shan Yu, and Gow-Chin Yen\**
- 2157 **Dietary Milk Fat Globule Membrane Reduces the Incidence of Aberrant Crypt Foci in Fischer-344 Rats**  
*Dallin R. Snow, Rafael Jimenez-Flores, Robert E. Ward, Jesse Cambell, Michael J. Young, Ilka Nemere, and Kerry J. Hintze\**
- 2164 **Suppression of SOS-Inducing Activity of Chemical Mutagens by Metabolites from Microbial Transformation of (-)-Isolongifolene**  
*Kazuki Sakata, Yoshimitsu Oda, and Mitsuo Miyazawa\**
- 2168 **Dietary Flavonoids Activate the Constitutive Androstane Receptor (CAR)**  
*Ruiqing Yao, Akihito Yasuoka, Asuka Kamei, Yoshinori Kitagawa, Norifumi Tateishi, Nobuo Tsuruoka, Yoshionobu Kiso, Tatsuya Sueyoshi, Masahiko Negishi, Takumi Misaka, and Keiko Abe\**
- 2174 **Bioactive Phenylpropanoids from *Daucus crinitus* Desf. from Algeria**  
*Dan-Antoine Lanfranchi, Hocine Laouer, Meriem El Kollil, Soizic Prado,\* Christine Maulay-Bailly, and Nicolas Baldovini\**
- 2180 **Colon Cancer Chemopreventive Activities of Pomegranate Ellagitannins and Urolithins**  
*Sashi G. Kasimsetty, Dobrosława Białoska, Muntha K. Reddy, Guoyi Ma, Shabana I. Khan, and Dancel Ferreira\**
- 2188 **Methylxanthines and Phenolics Content Extracted during the Consumption of Mate (*Ilex paraguariensis* St. Hil) Beverages**  
*Adriana Dillenburg Meinhardt, Carolina Schaper Bizzotto, Cristiano Augusto Balbus, Ana Cecília Poloni Rybka, Merence Roberto Sobrinho, Romina Sofia Cerro-Quintana, José Teixeira-Filho, and Helena Teixeira Godoy\**
- 2194 **Metabolic Fingerprint of Brazilian Maize Landraces Silk (Stigma/Styles) Using NMR Spectroscopy and Chemometric Methods**  
*Shirley Kuhnert, Juliana Bernardi Ogluari, Paulo Fernando Dias, Maíara da Silva Santos, Antônio Gilberto Ferreira, Connie C. Bonham, Karl Vernon Wood, and Marcelo Maraschin\**
- 2201 **Anticancer Effects of *Alpinia pricei* Hayata Roots**  
*Chin-Lin Hsu, Yu-Shan Yu, and Gow-Chin Yen\**
- 2209 **Chemical Constituents of Red Mexican Propolis**  
*Cinzia Lotti, Mercedes Campo Fernández, Anna Lisa Piccinelli, Osmany Cuesta-Rubio, Ingrid Márquez Hernández, and Luca Rastrelli\**
- 2214 **In Vitro Hepatic Biotransformation of Aspalathin and Nothofagin, Dihydrochalcones of Rooibos (*Aspalathus linearis*), and Assessment of Metabolite Antioxidant Activity**  
*J. Debora van der Merwe, Elizabeth Joubert,\* Marena Manley, Dalene de Beer, Christian J. Malherbe, and Wentzel C. A. Gelderblom*
- 2221 **A Lectin with Anti-HIV-1 Reverse Transcriptase, Antitumor, and Nitric Oxide Inducing Activities from Seeds of *Phaseolus vulgaris* cv. Extralong Autumn Purple Bean**  
*Evandro Fei Fang, Peng Lin, Jack Ho Wong, Sai Wah Tsao, and Tzi Bun Ng\**
- 2230 **Red Mold Rice Promotes Neuroprotective sAPP $\alpha$  Secretion Instead of Alzheimer's Risk Factors and Amyloid Beta Expression in Hyperlipidemic A $\beta$ 40-Infused Rats**  
*Chun-Lin Lee, Tzong-Fu Kuo, Cheng-Lan Wu, Jyh-Jye Wang, and Tzu-Ming Pan\**
- 2239 **Stilbene Glucoside from *Polygonum multiflorum* Thunb.: A Novel Natural Inhibitor of Advanced Glycation End Product Formation by Trapping of Methylglyoxal**  
*Lishuang Lv, Xi Shao, Liyan Wang, Derong Huang, Chi-Tang Ho, and Shengmin Sang\**
- 2246 **Olive Oil Phenols Modulate the Expression of Metalloproteinase 9 in THP-1 Cells by Acting on Nuclear Factor- $\kappa$ B Signaling**  
*Mario Dell'Agli,\* Rossana Fagnani, Germana V. Galli, Omar Maschi, Federica Gillardi, Stefano Bellosta, Maurizio Crestani, Enrica Bosio, Emma De Fabiani, and Donatella Caruso*
- 
- BIOFUELS AND BIOPRODUCTS CHEMISTRY**
- 
- 2253 **Hydrolysis Behavior of Bamboo Fiber in Formic Acid Reaction System**  
*Yong Sun and Lu Lin\**
- 
- CHEMICAL ASPECTS OF BIOTECHNOLOGY/MOLECULAR BIOLOGY**
- 
- 2260 **Bioproduction of 2-Phenylethanol in a Biphasic Ionic Liquid Aqueous System**  
*Mor Sendovski, Netta Nir, and Ayelet Fishman\**
- 2266 **Expression of Ace-Royalisin Gene from Royal Jelly of Chinese Honeybee in *Escherichia coli* and Its Antibacterial Activity**  
*Lirong Shen,\* Meihui Ding, Liwen Zhang, Feng Jin, Weiguang Zhang, and Duo Li*
- 2274 **Fermentation of *Metroxylon sagu* Resistant Starch Type III by *Lactobacillus* sp. and *Bifidobacterium bifidum***  
*Loo Siew-Wai, Tan Zi-Ni, Alias A. Karim, Norziah M. Hani, and Ahmad Rozma\**
- 2279 **High-Level Expression of *Lactobacillus*  $\beta$ -Galactosidases in *Lactococcus lactis* Using the Food-Grade, Nisin-Controlled Expression System NICE**  
*Thomas Malschberger, Igor Mierau, Clemens K. Peterbauer, Jeroen Hugenholz, and Dietmar Hallrich\**

- 2288 **Arginine-Rich Intracellular Delivery Peptides Synchronously Deliver Covalently and Noncovalently Linked Proteins into Plant Cells**  
*Shu-Wan Lu, Jia-Wei Hu, Betty Revon Liu, Cheng-Yi Lee, Jheng-Fong Li, Jyh-Ching Chou, and Han-Jung Lee\**

## CHEMICAL ASPECTS OF FOOD SAFETY

- 2295 **Changes in Selenium Speciation Associated with Increasing Tissue Concentrations of Selenium in Wheat Grain**  
*Francesca Cubadda,\* Federica Aureli, Silvia Ciardullo, Marilena D'Amato, Andrea Raggi, Raghunath Acharya, Ramana A. V. Reddy, and Nagaraja Tejo Prakash*

- 2302 **Allergenicity Assessment of Genetically Modified Cucumber Mosaic Virus (CMV) Resistant Tomato (*Solanum lycopersicon*)**  
*Chih-Hui Lin, Fiu Sheu, Hsin-Tang Lin, and Tsu-Ming Pan\**

- 2307 **Determination of Bisphenol A in U.S. Infant Formulas: Updated Methods and Concentrations**  
*Luke K. Ackerman,\* Gregory O. Noonan, Wendy M. Heiserman, John A. Roach, William Linum, and Timothy H. Begley*

## CHEMICAL CHANGES INDUCED BY PROCESSING/STORAGE

- 2314 **Kinetics of Anthocyanin Degradation and Browning in Reconstituted Blackberry Juice Treated at High Temperatures (100–180 °C)**  
*Nadjarid Jiménez, Philippe Bohuon,\* Janice Lima, Manuel Dornier, Fabrice Vailliant, and Ana Mercedes Pérez*

- 2323 **Quercetin and Isorhamnetin in Sweet and Red Cultivars of Onion (*Allium cepa* L.) at Harvest, after Field Curing, Heat Treatment, and Storage**  
*Marie E. Olsson,\* Karl-Erik Gustavsson, and Ingunn M. Vågen*

- 2331 **Changes in Nutritional Value and Cytotoxicity of Garden Cress Germinated with Different Selenium Solutions**  
*Juana Frias, Piotr Gulewicz, Cristina Martínez-Villahuenga, Elena Peñas, Marluza K. Piskula, Halina Kozłowska, Ewa Ciska, Krzysztof Gulewicz, and Concepción Vidal-Valverde\**

- 2337 **Systematic Identification of Yeast Proteins Extracted into Model Wine during Aging on the Yeast Lees**  
*Jeffrey D. Rowe, James F. Harbertson, James P. Osborne, Michael Freitag, Juyun Lim, and Alan T. Bukalinsky\**

- 2347 **Role of Radicals in the Lipid Peroxidation Products of Commercial Infant Milk Formula**  
*Ariela Burg, Tali Süberstein, Guy Yardeni, Dorith Tavor, Jeanine Blumenfeld, Israel Zilbermann, and Oshra Saphier\**

- 2351 **Effect of Pulsed Electric Field Processing of Red Grapes on Wine Chromatic and Phenolic Characteristics during Aging in Oak Barrels**  
*E. Puértolas, G. Saldaña, I. Álvarez, and J. Russo\**

## CHEMICAL COMPOSITION OF FOODS/FEEDS

- 2358 **Hydrogen and Oxygen Stable Isotope Ratios of Milk in the United States**  
*Lesley A. Chesson,\* Luciano O. Valenzuela, Shannon P. O'Grady, Thure F. Cerling, and James R. Ehleringer*

- 2364 **Changing Carbon Isotope Ratio of Atmospheric Carbon Dioxide: Implications For Food Authentication**  
*William H. Peck\* and Stephanie C. Tubman*

- 2368 **Extensive Variation in Fried Chip Color and Tuber Composition in Cold-Stored Tubers of Wild Potato (*Solanum*) Germplasm**  
*Leah C. McCann, Paul C. Bethke,\* and Phillip W. Simon*

- 2377 **Structural Makeup, Biopolymer Conformation, and Biodegradation Characteristics of a Newly Developed Super Genotype of Oats (CDC SO-1 versus Conventional Varieties): A Novel Approach**  
*Daalkhujav Damiran and Peiqiang Yu\**

- 2388 **Phenolic Characterization of Malbec Wines from Mendoza Province (Argentina)**  
*Martin Fanzone,\* Alvaro Peña-Neira, Viviana Jofré, Mariela Assof, and Fernando Zamora*

- 2398 **Discrimination of Animal Species Using Polymorphisms of the Nuclear Gene *Zinc Finger Protein 238***  
*Won Kim, Sunmi Kim, Hojun Choi, Nguyen Dinh Truong, Le Minh Thong, Jin-Ho Kim, Rui Xiao, Keun-kyu Park, Junho Seo, Heng Lee, Bo-Sook Kim, Mi-Hyun Yoo, and Chankyu Park\**

## CROP AND ANIMAL PROTECTION CHEMISTRY

- 2403 **Constitutive Expression of the Maize Genes *B1* and *C1* in Transgenic Hi II Maize Results in Differential Tissue Pigmentation and Generates Resistance to *Helicoverpa zea***  
*Eric T. Johnson,\* Mark A. Berhow, and Patrick F. Dovid*

- 2410 **Activation of Defense Mechanism in Wheat by Polyphenol Oxidase from Aphid Saliva**  
*Rui Ma, Ju-Lian Chen,\* Deng-Fa Cheng, and Jing-Rui Sun*

## ENVIRONMENTAL CHEMISTRY

- 2419 **Metabolism of the Neonicotinoid Insecticides Acetamiprid and Thiacloprid by the Yeast *Rhodotorula mucilaginosa* Strain IM-2**  
*Yi-Jun Dai, Wei-Wei Ji, Ting Chen, Wen-Jian Zhang, Zhong-Hua Liu, Feng Ge, and Sheng Yuan\**

- 2426 **Interaction of Phenol, *o*-Cresol, and *p*-Cresol with a Clay-Rich Soil Sample**  
*Rafael Garrett Dolatto, Iara Messerschmidt, Betânia Fraga Pereira, Talita de Oliveira, Cláudio Nalito Pillon, and Gilberto Abate\**

- 2433 **Enhanced Dissipation of Oxyfluorfen, Ethalfuralin, Trifluralin, Propyzamide, and Pendimethalin in Soil by Solarization and Biosolarization**  
*José Fenoll Serrano,\* Encarnación Ruiz, Pilar Hellín, Alfredo Lacasa, and Pilar Flores*

- 2439 **Enantioselective Degradation in Sediment and Aquatic Toxicity to *Daphnia magna* of the Herbicide Lactofen Enantiomers**  
*Jinling Diao, Peng Xu, Peng Wang, Dohai Lu, Yue-Le Lu, and Zhiqiang Zhou\**

## FLAVORS AND AROMAS/CHEMOSENSORY PERCEPTION

- 2446 **Chitosan Coating Improves Retention and Redispersibility of Freeze-Dried Flavor Oil Emulsions**  
*Thomas Kaasgaard\* and Danielle Keller*

- 2455 **Assessment of Volatile and Sensory Profiles between Base and Sparkling Wines**  
*Jordi Torrens, Montserrat Riu-Aumatell,\* Stefania Vichi, Elvira López-Tamames, and Susana Buxaderas*
- 2462 **Characterization of Aroma Compounds in Chinese Rice Wine Qu by Solvent-Assisted Flavor Evaporation and Headspace Solid-Phase Microextraction**  
*Xinliang Mo, Yan Xu,\* and Wenlai Fan*
- 2470 **Formation of Pyrazines in Maillard Model Systems of Lysine-Containing Dipeptides**  
*Fien Van Lancker, An Adams, and Norbert De Kimppe\**

## FOOD CHEMISTRY/BIOCHEMISTRY

- 2479 **Production of *cis*-9,*trans*-11-Conjugated Linoleic Acid in Camelina Meal and Okara by an Oat-Assisted Microbial Process**  
*Marjatta Vahvaselkä\* and Simo Laakso*
- 2483 **Effects of Phytase, Cellulase, and Dehulling Treatments on Iron and Zinc *in Vitro* Solubility in Faba Bean (*Vicia faba* L.) Flour and Legume Fractions**  
*Yu-Wei Luo,\* Wei-Hua Xie, and Qun-Xiang Cui*
- 2491 **Anthocyanin Absorption, Metabolism, and Distribution from a Wild Blueberry-Enriched Diet (*Vaccinium angustifolium*) Is Affected by Diet Duration in the Sprague-Dawley Rat**  
*Cristian Del Bò, Salvatore Ciappellano,\* Dorothy Klamis-Zacas, Daniela Martini, Claudio Gardana, Patrizia Riso, and Marisa Porrini*
- 2496 **Fasting Status and Thermally Oxidized Sunflower Oil Ingestion Affect the Intestinal Antioxidant Enzyme Activity and Gene Expression of Male Wistar Rats**  
*Raul Olivero David, Sara Bustida, Adriana Schultz, Laura González Torres, M. José González-Muñoz, Francisco J. Sánchez-Muniz,\* and Juana Benedí*
- 2505 **Anti-inflammatory Activity of New Compounds from *Andrographis paniculata* by NF- $\kappa$ B Transactivation Inhibition**  
*Wen-Wan Chao, Yueh-Hsiung Kuo,\* and Bi-Fong Lin\**
- 2513 **Effect of Dietary Melanoidins on Lipid Peroxidation during Simulated Gastric Digestion: Their Possible Role in the Prevention of Oxidative Damage**  
*Davide Tagliaruzuchi,\* Elena Verzelloni, and Angela Conte*
- 2520 **Interaction between Grape-Derived Proanthocyanidins and Cell Wall Material. I. Effect on Proanthocyanidin Composition and Molecular Mass**  
*Keren A. Bindon, Paul A. Smith, and James A. Kennedy\**
- 2529 **Production and Characterization of Distilled Alcoholic Beverages Obtained by Solid-State Fermentation of Black Mulberry (*Morus nigra* L.) and Black Currant (*Ribes nigrum* L.)**  
*Elisa Alonso González, Ana Torrado Agrasar, Lorenzo M. Pastrana Castro, Ignacio Orriols Fernández, and Nelson Pérez Guerra\**
- 2536 **Polyphenol-Rich Extract from Mulberry Leaf Inhibits Vascular Smooth Muscle Cell Proliferation Involving Upregulation of p53 and Inhibition of Cyclin-Dependent Kinase**  
*Kuei-Chuan Chan, Hsieh-Hsun Ho, Chiung-Huei Peng, Kuang-Ping Lan, Ming-Cheng Lin, Hsiang-Mei Chen, and Chau-Jong Wang\**

- 2543 **Transport of the Advanced Glycation End Products Alanylpyrraline and Pyrralylalanine by the Human Proton-Coupled Peptide Transporter hPEPT1**  
*Stefanie Geissler, Michael Hellwig, Madlen Zwarg, Fritz Markwardt, Thomas Henle, and Matthias Brandsch\**
- 2548 **Pepsin Degradation of Cry1A(b) Protein Purified from Genetically Modified Maize (*Zea mays*)**  
*Ruth de Luis, María Lavilla, Lourdes Sánchez, Miguel Calvo, and María D. Pérez\**
- 2554 **The Role of Plasmalogen in the Oxidative Stability of Neutral Lipids and Phospholipids**  
*Guang Wang and Tong Wang\**
- 2562 **Compositional Changes in Cell Wall Polysaccharides from Japanese Plum (*Prunus salicina* Lindl.) during Growth and On-Tree Ripening**  
*Nora M. A. Ponce, Victor H. Ziegler, Carlos A. Stortz,\* and Gabriel O. Sozzi*
- 2571 **Identification and Characterization of Anthocyanins in Yard-Long Beans (*Vigna unguiculata* ssp. *sesquipedalis* L.) by High-Performance Liquid Chromatography with Diode Array Detection and Electrospray Ionization/Mass Spectrometry (HPLC-DAD-ESI/MS) Analysis**  
*Tae Joong Ha,\* Myoung-Hee Lee, Chang-Hwan Park, Suk-Bok Pae, Kang-Bo Shim, Jong-Min Ko, Sang-Ouk Shin, In-Youl Baek, and Keum-Yong Park*
- 2577 **Effects of Ergothioneine from Mushrooms (*Flammulina velutipes*) on Melanosis and Lipid Oxidation of Kuruma Shrimp (*Marsupenaeus japonicus*)**  
*Angel B. Encarnacion, Fernand Fugatao, Ikuro Hirono, Hideki Ushio, and Toshiaki Ohshima\**
- 2586 **Identification of Metabolites in Human Plasma and Urine after Consumption of a Polyphenol-Rich Juice Drink**  
*William Mullen, Gina Borges, Michael E. J. Lean, Susan A. Roberts, and Alan Crozier\**
- 2596 **Mast Cell-Dependent Allergic Responses Are Inhibited by Ethanolic Extract of Adlay (*Coix lachryma-jobi* L. var. *ma-yuen* Stapf) Testa**  
*Hong-Jiang Chen, Chun-Kuang Shih, Hsin-Yi Hsu, and Wenchang Chiang\**

## TOXICOLOGY IN AGRICULTURE AND FOOD

- 2602 **Biogenic Amine Content of Shalgam (Shalgam): A Traditional Lactic Acid Fermented Turkish Beverage**  
*Özgül Özdekan\* and Ali Üren*
- 2609 **Occurrence of Aflatoxins in Tigmuts and Their Beverages Commercialized in Spain**  
*Natividad Sebastià, Carla Soler, José Miguel Soriano,\* and Jordi Mañes*

■ Supporting Information is available free of charge via the Internet at <http://pubs.acs.org>.

\* In papers with more than one author, the asterisk indicates the name of the author to whom inquiries about the paper should be addressed.

Visit the Web Current ACS Ethical Guidelines to Publication of Chemical Research and other information for authors and reviewers, including guidelines for manuscript preparation and copyright forms, can be found on the Web at the Author & Reviewer Resource Center at <http://pubs.acs.org/page/4authors/index.html>.