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May 11, 2011

Volume 59 Issue 9

Pages 4321-5172

In this issue:

- [Reviews](#)
- [Analytical Methods](#)
- [Bioactive Constituents](#)
- [Biofuels and Bioproducts Chemistry](#)
- [Chemical Aspects of Biotechnology/Molecular Biology](#)
- [Chemical Aspects of Food Safety](#)
- [Chemical Changes Induced by Processing/Storage](#)
- [Chemical Composition of Foods/ Feeds](#)
- [Crop and Animal Protection Chemistry](#)
- [Environmental Chemistry](#)
- [Flavors and Aromas/Chemosensory Perception](#)
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Selected:

Reviews

Chemical Composition and Biological Activities of Arachis Species

Renata Miranda Lopes, Tânia da Silveira Agostini-Costa, Marcos Aparecido Gimenes, and Damaris Silveira

pp 4321-4330

Publication Date (Web): March 22, 2011 ([Review](#))

DOI: 10.1021/jf104663z

[Abstract](#)

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Databases on Food Phytochemicals and Their Health-Promoting Effects

Augustin Scalbert, Cristina Andres-Lacueva, Masanori Arita, Paul Kroon, Claudine Manach, Mireia Urpi-Sarda, and

David Wishart

pp 4331-4348

Publication Date (Web): March 28, 2011 ([Review](#))

DOI: 10.1021/jf200591d

[Abstract](#)

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Use of Near Infrared Reflectance and Transmittance Coupled to Robust Calibration for the Evaluation of Nutritional Value in Naked Oats

Silvia Bellato, Viviana Del Frate, Rita Redaelli, Daniela Sgrulletta, Remo Bucci, Andrea D. Magrì, and Federico Marini

pp 4349-4360

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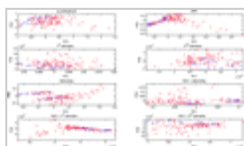


Figure 1 of 8

Next

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“Cross-Talk” in Scheduled Multiple Reaction Monitoring Caused by In-Source Fragmentation in Herbicide Screening with Liquid Chromatography Electrospray Tandem Mass Spectrometry

Fenhong Song

pp 4361-4364

Publication Date (Web): March 21, 2011 (Article)

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Philipp Weller, Markus Boner, Hilmar Foerstel, Horst Becker, Benjamin Peikert, and Wolfgang Dreher

pp 4365-4370

Publication Date (Web): March 27, 2011 (Article)

DOI: 10.1021/jf104766e

Abstract

Full Text HTML

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Sylvia Vogl, Martin Zehl, Paolo Picker, Ernst Urban, Christoph Wawrosch, Gottfried Reznicek, Johannes Saukel, and Brigitte Kopp

Abstract | Supporting Info

Full Text HTML

Hi-Res PDF[1072K]



pp 4371-4377

Publication Date (Web): March 22, 2011 ([Article](#))

DOI: 10.1021/jf104772x

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Identification and Quantification of Major Steviol Glycosides in *Stevia rebaudiana* Purified

Extracts by ^1H NMR Spectroscopy

Valerio Pieri, Andrea Belancic, Susana Morales, and Hermann Stuppner

pp 4378-4384

Publication Date (Web): March 21, 2011 ([Article](#))

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Multielemental Fingerprinting as a Tool for Authentication of Organic Wheat, Barley, Faba Bean, and Potato

Kristian H. Laursen, Jan K. Schjoerring, Jørgen E. Olesen, Margrethe Askegaard, Ulrich Halekoh, and Søren Husted

pp 4385-4396

Publication Date (Web): March 21, 2011 ([Article](#))

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Determining the Geographic Origin of Wheat Using Multielement Analysis and Multivariate Statistics

Haiyan Zhao, Boli Guo, Yimin Wei, Bo Zhang, Shumin Sun, Lei Zhang, and Junhui Yan

pp 4397-4402

Publication Date (Web): April 5, 2011 ([Article](#))

DOI: 10.1021/jf200108d

[Abstract](#)

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Genesis Carrillo, Adriana Bravo, and Carsten Zufall

[Abstract](#)

•  Full Text HTML



pp 4403-4411

Publication Date (Web): April 3, 2011 (Article)

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Natsuko I. Kobayashi, Keitaro Tanoi, Atsushi Hirose, Takayuki Saito, Akihiko Noda, Naoko Iwata, Akimasa Nakano, Satoru Nakamura, and Tomoko M. Nakanishi

pp 4412-4417

Publication Date (Web): March 22, 2011 (Article)

DOI: 10.1021/jf200264n

[Abstract](#) | [Supporting Info](#)

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Evaluation of Trace Heavy Metal Levels in Soil Samples Using an Ionic Liquid Modified Carbon Paste Electrode

Jianfeng Ping, Jian Wu, Yibin Ying, Maohua Wang, Gang Liu, and Miao Zhang

pp 4418-4423

Publication Date (Web): March 31, 2011 (Article)

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Studies on the Supramolecular Interaction between Dimethomorph and Disulfide Linked β -Cyclodextrin Dimer by Spectrofluorimetry and Its Analytical Application

Dongmei Chen, Zhenzhen Chen, Kehua Xu, and Bo Tang

pp 4424-4428

Publication Date (Web): April 11, 2011 (Article)

DOI: 10.1021/jf200343b

[Abstract](#)

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Nuclear Magnetic Resonance Profiling of Wine Blends

Giovanna Imparato, Elvio Di Paolo, Angela Braca, and Raffaele Lamanna

pp 4429-4434

Publication Date (Web): March 23, 2011 (Article)

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DOI: 10.1021/jf200587n

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Pharmacokinetic Profile of Total Quercetin after Single Oral Dose of Tartary Buckwheat Extracts in Rats

Gang Zhao, Liang Zou, Zhanguo Wang, Huiling Hu, Yibing Hu, and Lianxin Peng

pp 4435-4441

Publication Date (Web): March 18, 2011 ([Article](#))

DOI: 10.1021/jf1049529

[Abstract](#)

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Storage Life of Field-Grown Garlic Bulbs (*Allium sativum* L.) as Influenced by Nitrogen and Sulfur Fertilization

Elke Bloem, Silvia Haneklaus, and Ewald Schnug

pp 4442-4447

Publication Date (Web): March 21, 2011 ([Article](#))

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[Abstract](#)

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Matthew K. Fleshman, Gene E. Lester, Ken M. Riedl, Rachel E. Kopec, Sureshbabu Narayanasamy, Robert W.

Curley, Jr., Steven J. Schwartz, and Earl H. Harrison

pp 4448-4454

Publication Date (Web): March 18, 2011 ([Article](#))

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[Abstract](#)





Safflower (*Carthamus tinctorius* L.)

Nidhal Salem, Kamel Msaada, Ghaith Hamdaoui, Ferid Limam, and Brahim Marzouk

pp 4455-4463

Publication Date (Web): March 24, 2011 ([Article](#))

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[Abstract](#)

Céline Cakir-Kiefer, Yves Le Roux, Frédérique Balandras, Marie Trabalon, Annie Dary, François Laurent, Jean-Luc Gaillard, and Laurent Miclo

pp 4464-4472

Publication Date (Web): March 18, 2011 ([Article](#))

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[Abstract](#)

Houda Zrelli, Mieko Matsuoka, Shiho Kitazaki, Masahiro Araki, Miki Kusunoki, Mokhtar Zarrouk, and Hitoshi Miyazaki

pp 4473-4482

Publication Date (Web): March 25, 2011 ([Article](#))

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Serafina Salvati, Lucilla Attorri, Rita Di Benedetto, Stefano Fortuna, and Antonella Di Biase

pp 4483-4488

Publication Date (Web): March 18, 2011 ([Article](#))

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Protective Effect of Structurally Diverse Grape Procyanidin Fractions against UV-Induced Cell Damage and Death

Cecilia Matito, Neus Agell, Susana Sanchez-Tena, Josep L. Torres, and Marta Cascante

pp 4489-4495

Publication Date (Web): March 15, 2011 (Article)

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Molecular Structures of Citrus Flavonoids Determine Their Effects on Lipid Metabolism in HepG2 Cells by Primarily Suppressing ApoB Secretion

Yuguang Lin, Mario A. Vermeer, Wil Bos, Leo van Buren, Eric Schuurbijs, Silvia Miret-Catalan, and Elke A.

Trautwein

pp 4496-4503

Publication Date (Web): March 22, 2011 (Article)

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Comparative Study on Antioxidant Activity of Lycopene (Z)-Isomers in Different Assays

Lars Müller, Pascale Goupy, Kati Fröhlich, Olivier Dangles, Catherine Caris-Veyrat, and Volker Böhm

pp 4504-4511

Publication Date (Web): April 8, 2011 (Article)

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New Bioactive Orange Pigments with Yellow Fluorescence from *Monascus*-Fermented *Dioscorea*

Ya-Wen Hsu, Li-Chuan Hsu, Yu-Han Liang, Yao-Haur Kuo, and Tzu-Ming Pan

pp 4512-4518

Publication Date (Web): April 9, 2011 (Article)

DOI: 10.1021/jf1045987

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Chia-Ann Yang, Chi-Hua Cheng, Chaur-Tsuen Lo, Shu-Ying Liu, Jeng-Woei Lee, and Kou-Cheng Peng

pp 4519-4526

Publication Date (Web): April 1, 2011 ([Article](#))

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[Abstract](#) | [Supporting Info](#)

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Stéphanie Dudonné, Pascal Poupard, Philippe Coutière, Marion Woillez, Tristan Richard, Jean-Michel Mérillon, and Xavier Vitrac

pp 4527-4536

Publication Date (Web): March 22, 2011 ([Article](#))

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Antihypertensive Effects of Lactobacillus-Fermented Milk Orally Administered to Spontaneously Hypertensive Rats

Chin Feng Liu, Yi Ting Tung, Cheng Lun Wu, Bao-Hong Lee, Wei-Hsuan Hsu, and Tzu Ming Pan

pp 4537-4543

Publication Date (Web): March 29, 2011 ([Article](#))

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Yukio Fujiwara, Akinori Hayashida, Keiichiro Tsurushima, Ryoji Nagai, Makiko Yoshitomi, Norika Daiguji, Naomi Sakashita, Motohiro Takeya, Sachiko Tsukamoto, and Tsuyoshi Ikeda

pp 4544-4552

Publication Date (Web): March 29, 2011 ([Article](#))

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Chin Hsu, Chin-Lin Hsieh, Yueh-Hsiung Kuo, and Ching-jang Huang

pp 4553-4561

Publication Date (Web): April 1, 2011 ([Article](#))

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Haiqiu Huang, Zhihong Cheng, Haiming Shi, Wenbo Xin, Thomas T. Y. Wang, and Liangli (Lucy) Yu

pp 4562-4569

Publication Date (Web): April 10, 2011 ([Article](#))

DOI: 10.1021/jf2002969

[Abstract](#)

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Composition of Liquid Rice Hull Smoke and Anti-Inflammatory Effects in Mice

Sung Phil Kim, Jun Young Yang, Mi Young Kang, Jun Cheol Park, Seok Hyun Nam, and Mendel Friedman

pp 4570-4581

Publication Date (Web): March 25, 2011 ([Article](#))

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Effect of Green Tea Catechins on the Postprandial Glycemic Response to Starches Differing in Amylose Content

Jie Liu, Mingzhu Wang, Shanli Peng, and Genyi Zhang

pp 4582-4588

Publication Date (Web): March 15, 2011 ([Article](#))

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Isolation of Cholinesterase-Inhibiting Flavonoids from Morus lhou





Ji Young Kim, Woo Song Lee, Young Soo Kim, Marcus J. Curtis-Long, Byong Won Lee, Young Bae Ryu, and Ki Hun Park

pp 4589-4596

Publication Date (Web): March 24, 2011 ([Article](#))

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Yanping Zou and Sam K. C. Chang

pp 4597-4605

Publication Date (Web): April 4, 2011 ([Article](#))

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Effects of Aldehydes on the Growth and Lipid Accumulation of Oleaginous Yeast *Trichosporon fermentans*





Chao Huang, Hong Wu, Qiu-ping Liu, Yuan-yuan Li, and Min-hua Zong

pp 4606-4613

Publication Date (Web): March 28, 2011 ([Article](#))

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Jun Zhang, Jin-Wei Zheng, Bin Liang, Cheng-Hong Wang, Shu Cai, Ying-Ying Ni, Jian He, and Shun-Peng Li

[Abstract](#)



pp 4614-4621

Publication Date (Web): March 21, 2011 ([Article](#))

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- [Subscriber Access](#)

Molecular Cloning and Biochemical Characterization of an Endo- β -mannanase Gene from Soybean for Soybean Meal Improvement

Jingyu Lin, Vincent R. Pantalone, Guanglin Li, and Feng Chen

pp 4622-4628

Publication Date (Web): March 22, 2011 ([Article](#))

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[Abstract](#)

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Enhancement of Polyunsaturated Fatty Acids and Total Carotenoid Production in Microalgae by Ultraviolet Band A (UVA, 365 nm) Radiation

Jim Junhui Huang and Peter Chikeung Cheung

pp 4629-4636

Publication Date (Web): March 28, 2011 ([Article](#))

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Pin-Hui Sung, Fong-Chin Huang, Yi-Yin Do, and Pung-Ling Huang

pp 4637-4643

Publication Date (Web): April 19, 2011 ([Article](#))

DOI: 10.1021/jf200259n

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Chung-Ping Yu, Ping-Ping Wu, Yu-Chi Hou, Shiuian-Pey Lin, Shang-Yuan Tsai, Chiung-Tong Chen, and Pei-Dawn

Lee Chao

pp 4644-4648

Publication Date (Web): April 5, 2011 (Article)

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Application of a Modified Method for 3-Mercaptohexan-1-ol Determination To Investigate the Relationship between Free Thiol and Related Conjugates in Grape Juice and Wine

Dimitra L. Capone, Mark A. Sefton, and David W. Jeffery

pp 4649-4658

Publication Date (Web): April 1, 2011 (Article)

DOI: 10.1021/jf200116q

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 Section: [Food and Feed Chemistry](#)

Effects of Transporting and Processing Sauvignon blanc Grapes on 3-Mercaptohexan-1-ol Precursor Concentrations

Dimitra L. Capone and David W. Jeffery

pp 4659-4667

Publication Date (Web): March 30, 2011 (Article)

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pp 4668-4675

Publication Date (Web): March 23, 2011 ([Article](#))

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Youngmok Kim, Bruce A. Welt, and Stephen T. Talcott

pp 4676-4683

Publication Date (Web): March 24, 2011 ([Article](#))

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Raul Olivero-David, Antonello Paduano, Vincenzo Fogliano, Paola Vitaglione, Sara Bastida, María José González-Muñoz, Juana Benedí, Raffaele Sacchi, and Francisco José Sánchez-Muniz

pp 4684-4691

Publication Date (Web): March 22, 2011 ([Article](#))

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Brittany L. White, Luke R. Howard, and Ronald L. Prior

pp 4692-4698

Publication Date (Web): March 25, 2011 ([Article](#))

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Paula Vanessa Guerra and Varoujan A. Yaylayan



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pp 4699-4704

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The Activity of Healthy Olive Microbiota during Virgin Olive Oil Extraction Influences Oil Chemical Composition





Stefania Vichi, Agustí Romero, Joan Tous, and Josep Caixach

pp 4705-4714

Publication Date (Web): April 20, 2011 (Article)

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Chemical Composition of Foods/Feeds

Effect of Organic and Conventional Crop Rotation, Fertilization, and Crop Protection Practices on Metal Contents in Wheat (*Triticum aestivum*)

Julia Cooper, Roy Sanderson, Ismail Cakmak, Levent Ozturk, Peter Shotton, Andrew Carmichael, Reza Sadrabadi





Haghighi, Catherine Tetard-Jones, Nikos Volakakis, Mick Eyre, and Carlo Leifert

pp 4715-4724

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DOI: 10.1021/jf104389m

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Investigation of Some Characteristics of Polyhydroxy Milkweed Triglycerides and Their Acylated Derivatives in Relation to Lubricity





Rogers E. Harry-O'kuru, Girma Biresaw, Steven C. Cermak, Sherald H. Gordon, and Karl Vermillion

pp 4725-4735

Publication Date (Web): March 23, 2011 (Article)

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Comparison of Lipid Content and Fatty Acid Composition between Tuber Fermentation Mycelia and Natural Fruiting Bodies

Yang Tang, Yuan-Yuan Li, Hong-Mei Li, Duan-Ji Wan, and Ya-Jie Tang

pp 4736-4742

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Barley Grain Constituents, Starch Composition, and Structure Affect Starch in Vitro Enzymatic Hydrolysis

Eric K. Asare, Sarita Jaiswal, Jason Maley, Monica Bãga, Ramaswami Sammynaiken, Brian G. Rossnagel, and Ravindra N. Chibbar

pp 4743-4754

Publication Date (Web): April 4, 2011 ([Article](#))

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Zinc Absorption from *low phytic acid* Genotypes of Maize (*Zea mays* L.), Barley (*Hordeum vulgare* L.), and Rice (*Oryza sativa* L.) Assessed in a Suckling Rat Pup Model

Bo Lønnerdal, Concepcion Mendoza, Kenneth H. Brown, J. Neil Rutger, and Victor Raboy

pp 4755-4762

Publication Date (Web): March 21, 2011 ([Article](#))

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Ascorbic Acid, Phenolic Acid, Flavonoid, and Carotenoid Profiles of Selected Extracts from *Ribes nigrum*

Jessica Tabart, Claire Kevers, Danièle Evers, and Jacques Dommes

pp 4763-4770

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Characterization of Medium-Chain Triacylglycerol (MCT)-Enriched Seed Oil from *Cinnamomum camphora* (Lauraceae) and Its Oxidative Stability

Jiang-Ning Hu, Bing Zhang, Xue-Mei Zhu, Jing Li, Ya-Wei Fan, Rong Liu, Liang Tang, Ki-Teak Lee, and Ze-Yuan Deng

pp 4771-4778

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Anthocyanins from New Red Leaf Tea 'Sunrouge'

Takeshi Saito, Daiki Honma, Motoyuki Tagashira, Tomomasa Kanda, Atsushi Nesumi, and Mari Maeda-Yamamoto

pp 4779-4782

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Phytochemical and Morphological Characterization of Hop (*Humulus lupulus* L.) Cones over Five Developmental Stages Using High Performance Liquid Chromatography Coupled to Time-of-Flight Mass Spectrometry, Ultrahigh Performance Liquid Chromatography Photodiode Array Detection, and Light Microscopy Techniques

Adam R. Kavalier, Amy Litt, Chunhui Ma, Nicholi J. Pitra, Mark C. Coles, Edward J. Kennelly, and Paul D. Matthews

pp 4783-4793

Publication Date (Web): April 1, 2011 (Article)

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High Levels of Sugars and Fructan in Mature Seed of Sweet Wheat Lacking GBSSI and SSIIa Enzymes

Tomoya Shimbata, Takayuki Inokuma, Ai Sunohara, Patricia Vrinten, Mika Saito, Toshiyuki Takiya, and Toshiki Nakamura

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Crop and Animal Protection Chemistry

Studies of *O,O*-Dimethyl α -(2,4-Dichlorophenoxyacetoxy)ethylphosphonate (HW02) as a New Herbicide. 1. Synthesis and Herbicidal Activity of HW02 and Analogues as Novel Inhibitors of Pyruvate Dehydrogenase Complex

Hong-Wu He, Jun-Lin Yuan, Hao Peng, Ting Chen, Ping Shen, Shu-Qing Wan, Yanjun Li, Hong-Liang Tan, Ya-Hui He, Jun-Bo He, and Yan Li

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In Silico Structural Characteristics and α -Amylase Inhibitory Properties of Ricin 1 and Ricin 3, Allergenic 2S Albumins from *Ricinus communis* Seeds




Viviane Veiga Do Nascimento, Helena Carla Castro, Paula Alvarez Abreu, Antônia Elenir Amâncio Oliveira, Jorge Hernandez Fernandez, Jucélia Da Silva Araújo, and Olga Lima Tavares Machado

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Synthesis of a Combinatorial Library of Amides and Its Evaluation against the Fall Armyworm, *Spodoptera frugiperda*

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Batista-Pereira, João B. Fernandes, Paulo C. Vieira, M. Fatima G. F. da Silva, and Arlene G. Corrêa

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Synthesis, Insecticidal Activity, and Molecular Docking Studies of Nitenpyram Analogues with a Flexible Ester Arm Anchored on Tetrahydropyrimidine Ring

Chuanwen Sun, Xiao Xu, Yonghua Xu, Dingrong Yan, Ting Fang, and Tianyan Liu

pp 4828-4835

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Design, Synthesis, and Biological Activities of Milbemycin Analogues

Jin-Hao Zhao, Xiao-Jun Xu, Ming-Hua Ji, Jing-Li Cheng, and Guo-Nian Zhu

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Design, Synthesis, and Insecticidal Evaluation of New Benzoylureas Containing Isoxazoline and Isoxazole Group

Ranfeng Sun, Yongqiang Li, Lixia Xiong, Yuxiu Liu, and Qingmin Wang

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Neonicotinoid Insecticides: Oxidative Stress in Planta and Metallo-oxidase Inhibition

Kevin A. Ford, Alexander G. Gulevich, Tami L. Swenson, and John E. Casida

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Environmental Chemistry

Inhibition of Herbicide Photodegradation by Plant Products

Boris Eyheraguibel, Claire Richard, Gerard Ledoigt, and Alexandra Ter Halle

pp 4868-4873

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Solar UV-B and ABA Are Involved in Phenol Metabolism of *Vitis vinifera* L. Increasing Biosynthesis of Berry Skin Polyphenols




Federico J. Berli, Martín Fanzone, Patricia Piccoli, and Rubén Bottini

pp 4874-4884

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Flavors and Aromas/Chemosensory Perception

Characterization of Odor-Active Compounds in Guava Wine

Jorge A. Pino and Oscar Queris

pp 4885-4890

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Proton Transfer Reaction Mass Spectrometry and Time Intensity Perceptual Measurement of Flavor Release from Lipid Emulsions Using Trained Human Subjects

Damian Frank, Ingrid Appelqvist, Udayasika Piyasiri, Tim J. Wooster, and Conor Delahunty







[Abstract](#)

pp 4891-4903

Publication Date (Web): April 3, 2011 (Article)

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Model Studies on Volatile Release from Different Semisolid Fat Blends Correlated with Changes in Sensory Perception




Makoto Shiota, Tomoyuki Isogai, Ai Iwasawa, and Mariko Kotera

pp 4904-4912

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Variation in Essential Oil Composition within Individual Leaves of Sweet Basil (*Ocimum basilicum* L.) Is More Affected by Leaf Position than by Leaf Age





Ravit Fischer, Nadav Nitzan, David Chaimovitch, Baruch Rubin, and Nativ Dudai

pp 4913-4922

Publication Date (Web): April 1, 2011 (Article)

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Generation of Volatile Compounds in Litchi Wine during Winemaking and Short-Term Bottle Storage





Yuwen Wu, Baoqing Zhu, Cui Tu, Changqing Duan, and QiuHong Pan

pp 4923-4931

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Key Odorants of Oscypek, a Traditional Polish Ewe's Milk Cheese

Małgorzata A. Majcher and Henryk H. Jeleń


pp 4932-4937

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Food Chemistry/Biochemistry

High Temperature during Grain Fill Alters the Morphology of Protein and Starch Deposits in the Starchy Endosperm Cells of Developing Wheat (*Triticum aestivum* L.) Grain





William J. Hurkman and Delilah F. Wood

pp 4938-4946

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Effect of a Hay-Based Diet or Different Upland Grazing Systems on Milk Volatile Compounds





Mauro Coppa, Bruno Martin, Philippe Pradel, Barbara Leotta, Alessandro Priolo, and Valentina Vasta

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Metabolic Profiling of Potential Probiotic or Synbiotic Cheeses by Nuclear Magnetic Resonance (NMR) Spectroscopy





Dina Rodrigues, Claudio H. Santos, Teresa A. P. Rocha-Santos, Ana M. Gomes, Brian J. Goodfellow, and Ana C. Freitas

pp 4955-4961

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Multifunctionalities of Oleyl-Branched Oligosaccharide Phosphate from Potato Starch with a High Phosphate Content





Taichi Ikehara, Reika Ogiwara, Makoto Hattori, Tadashi Yoshida, Masatusgu Yamashita, and Koji Takahashi

pp 4962-4968

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Chondroprotective Role of Sesamol by Inhibiting MMPs Expression via Retaining NF- κ B Signaling in Activated SW1353 Cells

Yung-Chang Lu, Thanasekaran Jayakumar, Yeh-Fang Duann, Yung-Chen Chou, Cheng-Ying Hsieh, Shin-Yun Yu,





Joen-Rong Sheu, and George Hsiao

pp 4969-4978

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Resveratrol Metabolites Do Not Elicit Early Pro-apoptotic Mechanisms in Neuroblastoma Cells

Jason D. Kenealey, Lalita Subramanian, Paul R. Van Ginkel, Soesiawati Darjatmoko, Mary J. Lindstrom, Veronika

Somoza, Sunil K. Ghosh, Zhenlei Song, Richard P. Hsung, Glen S. Kwon, Kevin W. Eliceiri, Daniel M. Albert, and





Arthur S. Polans

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Regulation Effects of *Crataegus pinnatifida* Leaf on Glucose and Lipids Metabolism

Tao Wang, Yating An, Chunfeng Zhao, Lifeng Han, Mavis Boakye-Yiadom, Wei Wang, and Yi Zhang

pp 4987-4994

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Taurine Is More Effective than Melatonin on Cytochrome P450 2E1 and Some Oxidative Stress Markers in Streptozotocin-Induced Diabetic Rats

Manal El-Batch, Azza M. Hassan, and Heba A. Mahmoud

pp 4995-5000

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***In Vitro* Metabolism of *trans*-Permethrin and Its Major Metabolites, PBalc and PBacid, in Humans**

Tomoyuki Takaku, Kazuki Mikata, Masayoshi Matsui, Kazuhiko Nishioka, Naohiko Isobe, and Hideo Kaneko

pp 5001-5005

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Effect of Roasting on Phenolic Content and Antioxidant Activities of Whole Cashew Nuts, Kernels, and Testa

Neel Chandrasekara and Fereidoon Shahidi

pp 5006-5014

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Long Chain n-3 Polyunsaturated Fatty Acid Concentration and Color and Lipid Stability of Muscle from Heifers Offered a Ruminally Protected Fish Oil Supplement

Peter G. Dunne, Jaroslaw Rogalski, Stuart Childs, Frank J. Monahan, David A. Kenny, and Aidan P. Moloney

pp 5015-5025

Publication Date (Web): March 30, 2011 ([Article](#))

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Formation of Flavor Oil Microemulsions, Nanoemulsions and Emulsions: Influence of Composition and Preparation Method





Jiajia Rao and David Julian McClements

pp 5026-5035

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Portable Surface Plasmon Resonance Immunosensor for the Detection of Fluoroquinolone Antibiotic Residues in Milk





Fátima Fernández, Daniel G. Pinacho, Francisco Sánchez-Baeza, and M. Pilar Marco

pp 5036-5043

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One-Pot Synthesis of Cycloamyloses from Sucrose by Dual Enzyme Treatment: Combined Reaction of Amylosucrase and 4- α -Glucanotransferase





Jung-Hwan Kim, Ren Wang, Wang-Hee Lee, Cheon-Seok Park, Suyong Lee, and Sang-Ho Yoo

pp 5044-5051

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Contribution of the Interfacial Layer to the Protection of Emulsified Lipids against Oxidation





Claire Berton, Marie-Hélène Ropers, Michèle Viau, and Claude Genot

pp 5052-5061

Publication Date (Web): April 3, 2011 (Article)

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Flavored Waters: Influence of Ingredients on Antioxidant Capacity and Terpenoid Profile by HS-SPME/GC-MS

M. Fátima Barroso, J. P. Noronha, Cristina Delerue-Matos, and M. B. P. P. Oliveira

pp 5062-5072

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Enhancement of Dissolution and Antioxidant Activity of Kaempferol Using a Nanoparticle Engineering Process

Cheng-Wei Tzeng, Feng-Lin Yen, Tzu-Hui Wu, Horng-Huey Ko, Chiang-Wen Lee, Wen-Sheng Tzeng, and Chun-Ching Lin

pp 5073-5080

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Multiple Biological Functions of Novel Basic Proteins Isolated from Duck Egg White: Duck Basic Protein Small 1 (dBPS₁) and 2 (dBPS₂)

Supaporn Naknukool, Shigeru Hayakawa, and Masahiro Ogawa

pp 5081-5086

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Characterization, Antimicrobial Activity, and Mechanism of a High-Performance (-)-Epigallocatechin-3-gallate (EGCG)-Cu^{II}/Polyvinyl Alcohol (PVA) Nanofibrous Membrane

Li-ming Sun, Chen-lu Zhang, and Ping Li

pp 5087-5092

Publication Date (Web): March 21, 2011 (Article)

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Cholesterol-Lowering Effects of Plant Steryl and Stanyl Laurate by Oral Administration in Mice





Wen-Sen He, Cheng-Sheng Jia, Ye-Bo Yang, Yuan Ma, Xiao-Ming Zhang, Biao Feng, and Jian Jin

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Ellagic Acid Inhibits Oxidized Low-Density Lipoprotein (OxLDL)-Induced Metalloproteinase (MMP) Expression by Modulating the Protein Kinase C- α /Extracellular Signal-Regulated Kinase/Peroxisome Proliferator-Activated Receptor γ /Nuclear Factor- κ B (PKC- α /ERK/PPAR- γ /NF- κ B) Signaling Pathway in Endothelial Cells





Mei-Ying Kuo, Hsiu-Chung Ou, Wen-Jane Lee, Wei-Wen Kuo, Ling-Ling Hwang, Tuzz-Ying Song, Chih-Yang Huang, Tsan-Hung Chiu, Kun-Ling Tsai, Chiou-Sheng Tsai, and Wayne Huey-Herng Sheu

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Blazeispirol A from Agaricus blazei Fermentation Product Induces Cell Death in Human Hepatoma Hep 3B Cells through Caspase-Dependent and Caspase-Independent Pathways





Zheng-Yuan Su, Yen-Chen Tung, Lucy Sun Hwang, and Lee-Yan Sheen

pp 5109-5116

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Antiglycative Effects of Protocatechuic Acid in the Kidneys of Diabetic Mice

Chia-Yu Lin, Shih-Jei Tsai, Chin-Shiu Huang, and Mei-Chin Yin





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Publication Date (Web): April 1, 2011 (Article)

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Toxicology in Agriculture and Food

Simultaneous Determination of 20 Pharmacologically Active Substances in Cow's Milk, Goat's Milk, and Human Breast Milk by Gas Chromatography–Mass Spectrometry





Abdelmonaim Azzouz, Beatriz Jurado-Sánchez, Badredine Souhail, and Evaristo Ballesteros

pp 5125-5132

Publication Date (Web): April 6, 2011 (Article)

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Norsesquiterpene Glycosides in Bracken Ferns (*Pteridium esculentum* and *Pteridium aquilinum* subsp. *wightianum*) from Eastern Australia: Reassessed Poisoning Risk to Animals





Mary T. Fletcher, Ian J. Brock, Keith G. Reichmann, Ross A. McKenzie, and Barry J. Blaney

pp 5133-5138

Publication Date (Web): April 4, 2011 (Article)

DOI: 10.1021/jf104267c

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Nitrate Deficiency Reduces Cadmium and Nickel Accumulation in Chamomile Plants





Jozef Kováčik, Bořivoj Klejdus, František Štork, and Josef Hedbavny

pp 5139-5149

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