

Reviews

4321 dx.doi.org/10.1021/jf104663z

Chemical Composition and Biological Activities of *Arachis* Species

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

4331 dx.doi.org/10.1021/jf200591d

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

Articles

Analytical Methods

4349 dx.doi.org/10.1021/jf200087y

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. Magri, and Federico Marini*

4361 dx.doi.org/10.1021/jf200592n


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

Fenhong Song*

4365 dx.doi.org/10.1021/jf104766e

Isotopic Fingerprinting for the Authenticity Control of Crop Protection Active Compounds using the Representative Insecticide Fipronil

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

4371  dx.doi.org/10.1021/jf104772x

Identification and Quantification of Coumarins in *Peucedanum ostruthium* (L.) Koch by HPLC-DAD and HPLC-DAD-MS

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

4378  [dx.doi.org/10.1021/jf104922q](https://doi.org/10.1021/jf104922q)
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*

4385  [dx.doi.org/10.1021/jf104928r](https://doi.org/10.1021/jf104928r)
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*

4397 [dx.doi.org/10.1021/jf200108d](https://doi.org/10.1021/jf200108d)
Determining the Geographic Origin of Wheat Using Multielement Analysis and Multivariate Statistics
Halyan Zhao, Boli Guo, Yimin Wei,* Bo Zhang, Shumin Sun, Lei Zhang, and Junhui Yan

4403 [dx.doi.org/10.1021/jf200167h](https://doi.org/10.1021/jf200167h)
Application of Factorial Designs To Study Factors Involved in the Determination of Aldehydes Present in Beer by On-Fiber Derivatization in Combination with Gas Chromatography and Mass Spectrometry
Génesis Carrillo, Adriana Bravo,* and Carsten Zufall

4412  [dx.doi.org/10.1021/jf200264n](https://doi.org/10.1021/jf200264n)
Analysis of the Mineral Composition of Taro for Determination of Geographic Origin
Natsuko L. Kobayashi, Keitaro Tanoi,* Atsushi Hirose, Takayuki Salto, Akihiko Noda, Naoko Iwata, Akimasa Nakano, Satoru Nakamura, and Tomoko M. Nakanishi

4418 [dx.doi.org/10.1021/jf200288e](https://doi.org/10.1021/jf200288e)
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

4424 [dx.doi.org/10.1021/jf200343b](https://doi.org/10.1021/jf200343b)
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*

4429  [dx.doi.org/10.1021/jf200587n](https://doi.org/10.1021/jf200587n)
Nuclear Magnetic Resonance Profiling of Wine Blends
Giovanna Imparato, Elvio Di Paolo, Angela Braca, and Raffaele Lamanna*

Bioactive Constituents

4435 [dx.doi.org/10.1021/jf1049529](https://doi.org/10.1021/jf1049529)
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

4442 [dx.doi.org/10.1021/jf104815f](https://doi.org/10.1021/jf104815f)
Storage Life of Field-Grown Garlic Bulbs (*Allium sativum* L.) as Influenced by Nitrogen and Sulfur Fertilization
Elke Bloem,* Silvia Haneklaus, and Ewald Schnug

4448 [dx.doi.org/10.1021/jf200416a](https://doi.org/10.1021/jf200416a)
Carotene and Novel Apocarotenoid Concentrations in Orange-Fleshed *Cucumis melo* Melons: Determinations of β -Carotene Bioaccessibility and Bioavailability
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*

4455 [dx.doi.org/10.1021/jf1049936](https://doi.org/10.1021/jf1049936)
Variation in Phenolic Composition and Antioxidant Activity during Flower Development of Safflower (*Carthamus tinctorius* L.)
Nidhal Salem, Kamel Msaada,* Ghaith Hamdaoui, Ferid Limam, and Brahim Marzouk

4464 [dx.doi.org/10.1021/jf104089c](https://doi.org/10.1021/jf104089c)
In Vitro Digestibility of α -Caseozepine, a Benzodiazepine-like Peptide from Bovine Casein, and Biological Activity of Its Main Proteolytic Fragment
Céline Cakir-Kiefer, Yves Le Roux, Frédérique Balandras, Marie Trabalon, Annie Dary, François Laurent, Jean-Luc Gaillard, and Laurent Miclo*

4473 [dx.doi.org/10.1021/jf104151d](https://doi.org/10.1021/jf104151d)
Hydroxytyrosol Induces Proliferation and Cytoprotection against Oxidative Injury in Vascular Endothelial Cells: Role of Nrf2 Activation and HO-1 Induction
Houda Zrelli, Mleko Matsuoka, Shihho Kitazaki, Masahiro Araki, Miki Kusunoki, Mokhtar Zarrouk, and Hitoshi Miyazaki*

4483  [dx.doi.org/10.1021/jf1042807](https://doi.org/10.1021/jf1042807)
Micronutrient-Enriched Rapeseed Oils Improve the Brain Oxidant/Antioxidant System in Rats Fed a High-Fat Diet
Serafina Salvati,* Lucilla Attorri, Rita Di Benedetto, Stefano Fortuna, and Antonella Di Biase

4489 [dx.doi.org/10.1021/jf103692a](https://doi.org/10.1021/jf103692a)
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*

4496 [dx.doi.org/10.1021/jf1044475](https://doi.org/10.1021/jf1044475)
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 Schuurblers, Silvia Miret-Catalan, and Elke A. Trautwein

4504 [dx.doi.org/10.1021/jf1045969](https://doi.org/10.1021/jf1045969)
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*

4512 [dx.doi.org/10.1021/jf1045987](https://doi.org/10.1021/jf1045987)

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*

4519 [dx.doi.org/10.1021/jf104603w](https://doi.org/10.1021/jf104603w)

A Novel L-Amino Acid Oxidase from *Trichoderma harzianum* ETS 323 Associated with Antagonism of *Rhizoctonia solani*

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

4527 [dx.doi.org/10.1021/jf104791t](https://doi.org/10.1021/jf104791t)

Phenolic Composition and Antioxidant Properties of Poplar Bud (*Populus nigra*) Extract: Individual Antioxidant Contribution of Phenolics and Transcriptional Effect on Skin Aging

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

4537 [dx.doi.org/10.1021/jf104965v](https://doi.org/10.1021/jf104965v)

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*

4544 [dx.doi.org/10.1021/jf200193r](https://doi.org/10.1021/jf200193r)

Triterpenoids Isolated from *Zizyphus jujuba* Inhibit Foam Cell Formation in Macrophages

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

4553 [dx.doi.org/10.1021/jf200418g](https://doi.org/10.1021/jf200418g)

Isolation and Identification of Cucurbitane-Type Triterpenoids with Partial Agonist/Antagonist Potential for Estrogen Receptors from *Momordica charantia*

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

4562 [dx.doi.org/10.1021/jf2002969](https://doi.org/10.1021/jf2002969)

Isolation and Characterization of Two Flavonoids, Engeletin and Astilbin, from the Leaves of *Engelhardtia roxburghiana* and Their Potential Anti-inflammatory Properties

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

4570 [dx.doi.org/10.1021/jf2003392](https://doi.org/10.1021/jf2003392)

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*

4582 [dx.doi.org/10.1021/jf200355q](https://doi.org/10.1021/jf200355q)

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*

4589 [dx.doi.org/10.1021/jf200423g](https://doi.org/10.1021/jf200423g)

Isolation of Cholinesterase-Inhibiting Flavonoids from *Morus ihou*

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

4597 [dx.doi.org/10.1021/jf104945x](https://doi.org/10.1021/jf104945x)

Effect of Black Soybean Extract on the Suppression of the Proliferation of Human AGS Gastric Cancer Cells via the Induction of Apoptosis

Yanping Zou and Sam K. C. Chang*

Biofuels and Bioproducts Chemistry

4606 [dx.doi.org/10.1021/jf104320b](https://doi.org/10.1021/jf104320b)

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*

Chemical Aspects of Biotechnology/Molecular Biology

4614 [dx.doi.org/10.1021/jf104695g](https://doi.org/10.1021/jf104695g)

Biodegradation of Chloroacetamide Herbicides by *Paracoccus* sp. FLY-8 in Vitro

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

4622 [dx.doi.org/10.1021/jf104785k](https://doi.org/10.1021/jf104785k)

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*

4629 [dx.doi.org/10.1021/jf200910p](https://doi.org/10.1021/jf200910p)

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*

4637 [dx.doi.org/10.1021/jf200259n](https://doi.org/10.1021/jf200259n)

Functional Expression of Geraniol 10-Hydroxylase Reveals Its Dual Function in the Biosynthesis of Terpenoid and Phenylpropanoid


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

Chemical Aspects of Food Safety


4644 [dx.doi.org/10.1021/jf104786t](https://doi.org/10.1021/jf104786t)

Quercetin and Rutin Reduced the Bioavailability of Cyclosporine from Neoral, an Immunosuppressant, through Activating P-Glycoprotein and CYP 3A4

Chung-Ping Yu, Ping-Ping Wu, Yu-Chi Hou, Shiuan-Pey Lin, Shang-Yuan Tsal, Chlung-Tong Chen, and Pei-Dawn Lee Chao*

4649  dx.doi.org/10.1021/jf200116q**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*

4659  dx.doi.org/10.1021/jf200119z**Effects of Transporting and Processing Sauvignon blanc Grapes on 3-Mercaptohexan-1-ol Precursor Concentrations**

Dimitra L. Capone and David W. Jeffery*

4668 dx.doi.org/10.1021/jf2011744

Physical Properties, Molecular Structures, and Protein Quality of Texturized Whey Protein Isolate: Effect of Extrusion Temperature

Phoebé X. Qi* and Charles I. Onwulata

4676 dx.doi.org/10.1021/jf104799y

The Impact of Packaging Materials on the Antioxidant Phytochemical Stability of Aqueous Infusions of Green Tea (*Camellia sinensis*) and Yaupon Holly (*Ilex vomitoria*) during Cold Storage

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

4684 dx.doi.org/10.1021/jf1048063

Effect of Thermal Oxidized Oil and Fasting Status on the Short-Term Digestibility of Ketolinoleic Acids and Total Oxidized Fatty Acids in Rats

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

4692 dx.doi.org/10.1021/jf200149a

Impact of Different Stages of Juice Processing on the Anthocyanin, Flavonol, and Procyandin Contents of Cranberries

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

4699 dx.doi.org/10.1021/jf200293e

Thermal Generation of 3-Amino-4,5-dimethylfuran-2(5H)-one, the Postulated Precursor of Sotolone, from Amino Acid Model Systems Containing Glyoxylic and Pyruvic Acids

Paula Vanessa Guerra and Varoujan A. Yaylayan*

4705 dx.doi.org/10.1021/jf200642s

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

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

4715 dx.doi.org/10.1021/jf104389m

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*

4725 dx.doi.org/10.1021/jf104746v

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. Cernak, Sherald H. Gordon, and Karl Vermillion

4736 dx.doi.org/10.1021/jf200141s

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*

4743 dx.doi.org/10.1021/jf200054e

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

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

4755 dx.doi.org/10.1021/jf1043663

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 Lönnnerdal,* Concepcion Mendoza, Kenneth H. Brown, J. Neil Rutger, and Victor Raboy

4763 dx.doi.org/10.1021/jf104445c

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

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

4771 dx.doi.org/10.1021/jf200188r


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*

4779 dx.doi.org/10.1021/jf200250g

Anthocyanins from New Red Leaf Tea "Sunrouge"

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

4783  [dx.doi.org/10.1021/jf1049084](https://doi.org/10.1021/jf1049084)
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

4794 [dx.doi.org/10.1021/jf200468c](https://doi.org/10.1021/jf200468c)
High Levels of Sugars and Fructan in Mature Seed of Sweet Wheat Lacking GBSSI and SSIIa Enzymes
Tomoya Shimbata,* Takayuki Inokuma, Ai Sunohara, Patricia Vrinter, Mika Saito, Toshiyuki Takaya, and Toshiki Nakamura*

Crop and Animal Protection Chemistry

4801  [dx.doi.org/10.1021/jf104247w](https://doi.org/10.1021/jf104247w)
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

4814 [dx.doi.org/10.1021/jf104638b](https://doi.org/10.1021/jf104638b)
In Silico Structural Characteristics and α -Amylase Inhibitory Properties of Ric c 1 and Ric c 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*

4822 [dx.doi.org/10.1021/jf104903t](https://doi.org/10.1021/jf104903t)
Synthesis of a Combinatorial Library of Amides and Its Evaluation against the Fall Armyworm, *Spodoptera frugiperda*
Thais C. Castral, Andreia P. Matos, Jullia L. Monteiro, Fernanda M. Araujo, Tatiani M. Bondancia, Luciane G. Batista-Pereira, João B. Fernandes, Paulo C. Vieira, M. Fatima G. F. da Silva, and Arlene G. Corrêa*

4828 [dx.doi.org/10.1021/jf1049563](https://doi.org/10.1021/jf1049563)
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

4836 [dx.doi.org/10.1021/jf2001926](https://doi.org/10.1021/jf2001926)
Design, Synthesis, and Biological Activities of Milbemycin Analogues
Jin-Hao Zhao, Xiao-Jun Xu, Ming-Hua Ji, Jing-Li Cheng, and Guo-Nian Zhu*

4851  [dx.doi.org/10.1021/jf200395g](https://doi.org/10.1021/jf200395g)
Design, Synthesis, and Insecticidal Evaluation of New Benzoylureas Containing Isoxazoline and Isoxazole Group
Ranfeng Sun, Yongqiang Li, Lixia Xiong, Yuxu Liu, and Qingmin Wang*

4860 [dx.doi.org/10.1021/jf200485k](https://doi.org/10.1021/jf200485k)
Neonicotinoid Insecticides: Oxidative Stress in Planta and Metallo-oxidase Inhibition
Kevin A. Ford, Alexander G. Gulevich, Tami L. Swenson, and John E. Casida*

Environmental Chemistry

4868 [dx.doi.org/10.1021/jf1047282](https://doi.org/10.1021/jf1047282)
Inhibition of Herbicide Photodegradation by Plant Products
Boris Eyheraguibel, Claire Richard, Gerard Ledoigt,* and Alexandra Ter Halle

4874 [dx.doi.org/10.1021/jf200040z](https://doi.org/10.1021/jf200040z)
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*

Flavors and Aromas/Chemosensory Perception

4885 [dx.doi.org/10.1021/jf2011112](https://doi.org/10.1021/jf2011112)
Characterization of Odor-Active Compounds in Guava Wine
Jorge A. Pino* and Oscar Queris

4891 [dx.doi.org/10.1021/jf104376b](https://doi.org/10.1021/jf104376b)
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

4904 [dx.doi.org/10.1021/jf104649y](https://doi.org/10.1021/jf104649y)
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

4913 [dx.doi.org/10.1021/jf200017h](https://doi.org/10.1021/jf200017h)
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 Rubín, and Nativ Dudai*

4923 [dx.doi.org/10.1021/jf2001876](https://doi.org/10.1021/jf2001876)
Generation of Volatile Compounds in Litchi Wine during Winemaking and Short-Term Bottle Storage
Yuwen Wu, Baoqing Zhu, Cui Tu, Changqing Duan, and Qihong Pan*

4932 [dx.doi.org/10.1021/jf2002602](https://doi.org/10.1021/jf2002602)
Key Odorants of Oscypek, a Traditional Polish Ewe's Milk Cheese
Małgorzata A. Majcher* and Henryk H. Jeleń

- 4938 [dx.doi.org/10.1021/jf102962t](https://doi.org/10.1021/jf102962t)
High Temperature during Grain Mill 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
- 4947 [dx.doi.org/10.1021/jf2005782](https://doi.org/10.1021/jf2005782)
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
- 4955  [dx.doi.org/10.1021/jf104605r](https://doi.org/10.1021/jf104605r)
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*
- 4962 [dx.doi.org/10.1021/jf1032558](https://doi.org/10.1021/jf1032558)
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*
- 4969 [dx.doi.org/10.1021/jf1046738](https://doi.org/10.1021/jf1046738)
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*
- 4979 [dx.doi.org/10.1021/jf104901g](https://doi.org/10.1021/jf104901g)
Resveratrol Metabolites Do Not Elicit Early Pro-apoptotic Mechanisms in Neuroblastoma Cells
 Jason D. Kenealey, Lalita Subramanian, Paul R. Van Ginkel, Soeslawati Darjatmoko, Mary J. Lindstrom, Veronika Somoza, Sunil K. Ghosh, Zhenlei Song, Richard P. Hsung, Glen S. Kwon, Kevin W. Elceiri, Daniel M. Albert, and Arthur S. Polans*
- 4987 [dx.doi.org/10.1021/jf1049062](https://doi.org/10.1021/jf1049062)
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*
- 4995 [dx.doi.org/10.1021/jf1049547](https://doi.org/10.1021/jf1049547)
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
- 5001 [dx.doi.org/10.1021/jf200032q](https://doi.org/10.1021/jf200032q)
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

- 5006 [dx.doi.org/10.1021/jf2000772](https://doi.org/10.1021/jf2000772)
Effect of Roasting on Phenolic Content and Antioxidant Activities of Whole Cashew Nuts, Kernels, and Testa
 Neel Chandrasekara and Fereidoon Shahidi*
- 5015  [dx.doi.org/10.1021/jf200232e](https://doi.org/10.1021/jf200232e)
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*
- 5026 [dx.doi.org/10.1021/jf200094m](https://doi.org/10.1021/jf200094m)
Formation of Flavor Oil Microemulsions, Nanoemulsions and Emulsions: Influence of Composition and Preparation Method
 Jiajia Rao and David Julian McClements*
- 5036 [dx.doi.org/10.1021/jf1048035](https://doi.org/10.1021/jf1048035)
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*
- 5044 [dx.doi.org/10.1021/jf2002238](https://doi.org/10.1021/jf2002238)
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*
- 5052 [dx.doi.org/10.1021/jf200086n](https://doi.org/10.1021/jf200086n)
Contribution of the Interfacial Layer to the Protection of Emulsified Lipids against Oxidation
 Claire Berton, Marie-Hélène Ropers, Michèle Viau, and Claude Genot*
- 5062 [dx.doi.org/10.1021/jf1048244](https://doi.org/10.1021/jf1048244)
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
- 5073 [dx.doi.org/10.1021/jf200354y](https://doi.org/10.1021/jf200354y)
Enhancement of Dissolution and Antioxidant Activity of Kaempferol Using a Nanoparticle Engineering Process
 Cheng-Wei Tzeng, Feng-Lin Yen, Tzu-Hui Wu, Homg-Huey Ko, Chiang-Wen Lee, Wen-Sheng Tzeng,* and Chun-Ching Lin*
- 5081 [dx.doi.org/10.1021/jf2004404](https://doi.org/10.1021/jf2004404)
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

5087 dx.doi.org/10.1021/jf200580t

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*

Molecular Nutrition

5093 dx.doi.org/10.1021/jf104031e

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

5100 dx.doi.org/10.1021/jf1041867

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*

5109 dx.doi.org/10.1021/jf104700j

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*

5117 dx.doi.org/10.1021/jf200103f

Antiglycative Effects of Protocatechuic Acid in the Kidneys of Diabetic Mice

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

Toxicology in Agriculture and Food

5125 dx.doi.org/10.1021/jf200364w

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

Abdelmonalm Azzouz, Beatriz Jurado-Sánchez, Badredine Souhail, and Evaristo Ballesteros*

5133 dx.doi.org/10.1021/jf104267c

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

5139 dx.doi.org/10.1021/jf104793b

Nitrate Deficiency Reduces Cadmium and Nickel Accumulation in Chamomile Plants

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

5150 dx.doi.org/10.1021/jf1047354

Uptake by Dietary Exposure and Elimination of Aflatoxins in Muscle and Liver of Rainbow Trout (*Oncorhynchus mykiss*)

Hirota Nomura, Motoki Ogiso, Michiaki Yamashita, Hiroshi Takaku, Ayako Kimura, Masato Chikasou, Yukio Nakamura, Seiji Fujii, Masatoshi Watai, and Hisashi Yamada*

5159 dx.doi.org/10.1021/jf200090d

Comparative Study of Hops-Containing Products on Human Cytochrome P450-Mediated Metabolism

Brian C. Foster,* John T. Arnason, Ammar Saleem, Teresa W. Tam, Rui Liu, Jingqin Mao, and Suzanne Desjardins

5164 dx.doi.org/10.1021/jf200579h

Cinnamaldehyde Enhances Nrf2 Nuclear Translocation to Upregulate Phase II Detoxifying Enzyme Expression in HepG2 Cells

Tzou-Chi Huang, Yu-Ling Chung, Mei-Li Wu,* and Show-Mei Chuang*

Additions and Corrections

5172 dx.doi.org/10.1021/jf2010029

Correction to Color Loss in Ethanolic Solutions of Chlorophyll *a*

Szu-Chuan Shen, Hsin-Yun Hsu, Chin-Neng Huang, and James Swi-Bea Wu*

Supporting Information available via online article.