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June 9, 2010

Volume 58, Issue 11

Pages 6543-7108

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Reviews

Nutritional, Biochemical, and Pharmaceutical Potential of Proteins and Peptides from *Jatropha*: Review

Rakshit K. Devappa, Harinder P. S. Makkar and Klaus Becker

pp 6543-6555

Publication Date (Web): May 13, 2010 (Review)

DOI: 10.1021/jf100003z

Abstract





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Figure 1 of 3

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Analytical Methods

Selective Differentiation of Indoleacetic Acid and Indolebutyric Acid Using Colorimetric Recognition after Ehrlich Reaction





Jun-Min Guo, You-Ying Xin and Xue-Bo Yin

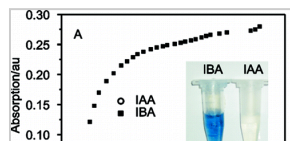
pp 6556-6561

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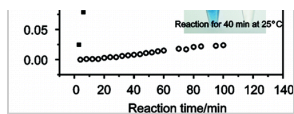


Figure 1 of 9

Next

Fast and Simple Nuclear Magnetic Resonance Method To Measure Conjugated Linoleic Acid in Beef

[Abstract](#)

Roberta Manzano Maria, Luiz Alberto Colnago, Lucimara Aparecida Forato and Donald Bouchard

pp 6562-6564

 Publication Date (Web): May 6, 2010 ([Article](#))

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Magnetic Levitation in the Analysis of Foods and Water

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Katherine A. Mirica, Scott T. Phillips, Charles R. Mace and George M. Whitesides

pp 6565-6569

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DOI: 10.1021/jf100377n

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Rapid and Simple Micromethod for the Simultaneous Determination of 3-MCPD and 3-MCPD Esters in Different Foodstuffs

[Abstract](#)

Markus Kusters, Ute Bimber, Alexandra Ossenbrüggen, Sebastian Reeser, Rainer Gallitzendörfer and Michael Gerhartz

pp 6570-6577

 Publication Date (Web): May 7, 2010 ([Article](#))

DOI: 10.1021/jf100416w

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Optimization of a Method for the Extraction and Quantification of Carotenoids and Chlorophylls during Ripening in Grape Berries (*Vitis vinifera* cv. Merlot)

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Zindi Kamffer, Keren A. Bindon and Anita Oberholster

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DOI: 10.1021/jf1004308

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**Immunochemical Detection of Tissue from the Central Nervous System via Myelin
Proteolipid Protein: Adaptation for Food Inspection and Development of Recombinant
Bivalent Fab Mini-Antibodies**

Ingrid Weigel, Gesine Schulze and Monika Pischetsrieder

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**Ultra-low Flow Liquid Chromatography Assay with Ultraviolet (UV) Detection for Piperine
Quantitation in Human Plasma**

Madhuri Kakarala, Shiv Kumar Dubey, Mallore Tarnowski, Connie Cheng, Samadhi Liyanage, Terrence Strawder,

Karim Tazi, Ananda Sen, Zora Djuric and Dean E. Brenner

pp 6594-6599

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**Simultaneous Multiplex Detection and Confirmation of the Proteinaceous Toxins Abrin,
Ricin, Botulinum Toxins, and Staphylococcus Enterotoxins A, B, and C in Food**

Eric A. E. Garber, Kodumudi V. Venkateswaran and Thomas W. O'Brien

pp 6600-6607

Publication Date (Web): May 10, 2010 (Article)

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Their Active Compounds Using HPLC-DAD-MS/MS and Biochemical Detection**





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De-Qiang Li, Zheng-Ming Qian and Shao-Ping Li

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Determination of F₂-Isoprostanes in Urine by Online Solid Phase Extraction Coupled to Liquid Chromatography with Tandem Mass Spectrometry





Marsha L. Langhorst, Michael J. Hastings, Wallace H. Yokoyama, Shao-Ching Hung, Nicholas Cellar, Krishna Kuppannan and Scott A. Young

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Bioactive Constituents

Cellular Antioxidant Activity of Common Vegetables





Wei Song, Christopher M. Derito, M. Keshu Liu, Xiangjiu He, Mei Dong and Rui Hai Liu

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Aqueous Garlic Extracts Prevent Oxidative Stress and Vascular Remodeling in an Experimental Model of Metabolic Syndrome

Marcela Alejandra Vazquez-Prieto, Roxana Elizabeth Gonzalez, Nicolás Federico Renna, Claudio Rómulo Galmarini and Roberto Miguel Miatello

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Polyphenolic Apple Extracts: Effects of Raw Material and Production Method on Antioxidant Effectiveness and Reduction of DNA Damage in Caco-2 Cells

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Phillip Bellion, Jasmin Digles, Frank Will, Helmut Dietrich, Matthias Baum, Gerhard Eisenbrand and Christine Janzowski

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Betulinic Acid Stimulates the Differentiation and Mineralization of Osteoblastic MC3T3-E1 Cells: Involvement of BMP/Runx2 and β -Catenin Signals




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Yi-Chen Lo, Yu-Han Chang, Bai-Lu Wei, Yu-Ling Huang and Wen-Fei Chiou

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Song Gao, Wen Jiang, Taijun Yin and Ming Hu

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Anat Solomon, Sara Golubowicz, Zeev Yablowicz, Margalit Bergman, Shlomo Grossman, Arie Altman, Zohar Kerem and Moshe A. Flaishman

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Ji Yeon Kim, Hye Jin Kwon, Ji Young Jung, Hye Young Kwon, Jin Gyeong Baek, Young-Suk Kim and Oran Kwon

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Joon-Kwan Moon, Jun-Ran Kim, Young-Joon Ahn and Takayuki Shibamoto

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Emanuela Corsini, Mario Dell'Agli, Alessandra Facchi, Emma De Fabiani, Laura Lucchi, Maria Serena Boraso,

Marina Marinovich and Corrado L. Galli

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Andrew P. Neilson, Teryn N. Sapper, Elsa M. Janle, Ralf Rudolph, Nathan V. Matusheski and Mario G. Ferruzzi

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Yu-Chi Chen, Shu-Huei Yu, Guo-Jane Tsai, Deh-Wei Tang, Fwu-Long Mi and Yu-Ping Peng

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Antihypertensive Effects of Silk Fibroin Hydrolysate by Alcalase and Purification of an ACE Inhibitory Dipeptide

Fengjuan Zhou, Zhaohui Xue and Jiehua Wang

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Urea Degradation in Some White Wines by Immobilized Acid Urease in a Stirred Bioreactor





Lucia Andrich, Marco Esti and Mauro Moresi

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Structures of Two Novel Trimeric Stilbenes Obtained by Horseradish Peroxidase Catalyzed Biotransformation of *trans*-Resveratrol and (-)- ϵ -Viniferin





Andrea Wilkens, Jana Paulsen, Victor Wray and Peter Winterhalter

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Genetic Engineering of *Stenotrophomonas* Strain YC-1 To Possess a Broader Substrate Range for Organophosphates





Chao Yang, Cunjiang Song, Ashok Mulchandani and Chuanling Qiao

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Tissue Depletion and Concentration Correlations between Edible Tissues and Biological Fluids of 3-Amino-2-oxazolidinone in Pigs Fed with a Furazolidone-Medicated Feed

Yu Liu, Lingli Huang, Yulian Wang, Bo Yang, Awais Ishan, Ke Fang, Dapeng Peng, Zhenli Liu, Menghong Dai and





Zonghui Yuan

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Active Paraffin-Based Paper Packaging for Extending the Shelf Life of Cherry Tomatoes





Angel Rodriguez-Lafuente, Cristina Nerin and Ramon Batlle

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Pilot-Scale Resin Adsorption as a Means To Recover and Fractionate Apple Polyphenols

Dietmar R. Kammerer, Reinhold Carle, Roger A. Stanley and Zaid S. Saleh

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Muditha Dissanayake, Alan L. Kelly and Todor Vasiljevic

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Effects of Organic and Conventional Cultivation Methods on Composition of Eggplant Fruits

María D. Raigón, Adrián Rodríguez-Burruezo and Jaime Prohens

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Timing of Cluster Light Environment Manipulation during Grape Development Affects C₁₃

Norisoprenoid and Carotenoid Concentrations in Riesling

Misha T. Kwasniewski, Justine E. Vanden Heuvel, Bruce S. Pan and Gavin L. Sacks

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Phenolic Component Profiles of Mustard Greens, Yu Choy, and 15 Other *Brassica* Vegetables [Abstract](#)

Long-Ze Lin and James M. Harnly

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Design, Synthesis, and Insecticidal Activities of Phthalamides Containing a Hydrazone

Substructure

Ming Liu, Yi Wang, Wei-zi Wangyang, Feng Liu, Yong-liang Cui, You-sheng Duan, Min Wang, Shang-zhong Liu and





Chang-hui Rui

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Metsulfuron-methyl Sorption/Desorption Behavior on Volcanic Ash-Derived Soils. Effect of

Phosphate and pH





Lizethly Cáceres, Roxana Fuentes, Mauricio Escudey, Edwar Fuentes and María E. Báez

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Effect of Particle Size on Copper Oxochloride Transport through Saturated Sand Columns

Marcos Paradelo, Paula Pérez-Rodríguez, Manuel Arias-Estévez and J. Eugenio López-Periago


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Inorganic Contaminants in Bee Pollen from Southeastern Brazil





Marcelo A. Morgano, Marcia C. Teixeira Martins, Luana C. Rabonato, Raquel F. Milani, Katumi Yotsuyanagi and Delia B. Rodriguez-Amaya

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Nanobiocomposites of Carrageenan, Zein, and Mica of Interest in Food Packaging and Coating Applications





Maria D. Sanchez-Garcia, Loic Hilliou and Jose M. Lagaron

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Oxidative Removal and Kinetics of Fipronil in Various Oxidation Systems for Drinking Water Treatment





Evelyn F. Chamberlain, Chuan Wang, Honglan Shi, Craig D. Adams and Yinfa Ma

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Evaluation of the Active Odorants in Amontillado Sherry Wines during the Aging Process

Lourdes Moyano, Luis Zea, Jose A. Moreno and Manuel Medina

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Effect of Fat Content on Flavor Delivery during Consumption: an in Vivo Model

Rob Linforth, Magalie Cabannes, Louise Hewson, Nicole Yang and Andrew Taylor

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Food Chemistry/Biochemistry

Changes in Protein Expression Profiles between a Low Phytic Acid Rice (*Oryza sativa* L. Ssp. *japonica*) Line and Its Parental Line: A Proteomic and Bioinformatic Approach

Kaveh Emami, Nicholas J. Morris, Simon J. Cockell, Gabriela Golebiowska, Qing-Yao Shu and Angharad M. R.

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Changes in Mucosal α -Glucosidase Activities along the Jejunal-Ileal Axis by an Hm-HACS Diet Intake Are Associated with Decreased Lipogenic Enzyme Activity in Epididymal Adipose Tissue

Kazuki Mochizuki, Yuki Sato, Sachiko Takase and Toshinao Goda

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Quality Traits of Conventional and Transgenic Lettuce (*Lactuca sativa* L.) at Harvesting by NMR Metabolic Profiling

Anatoly P. Sobolev, Giulio Testone, Flavio Santoro, Chiara Nicolodi, Maria A. Iannelli, Maria E. Amato, Antonietta

Ianniello, Elvino Brosio, Donato Giannino and Luisa Mannina

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Synthesis and Antioxidant Activity of Hydroxycinnamic Acid Xylan Esters

Pauli Wrigstedt, Petri Kylli, Leena Pitkänen, Paula Nousiainen, Maija Tenkanen and Jussi Sipilä

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Stability of Carotenoids in *Scenedesmus almeriensis* Biomass and Extracts under Various Storage Conditions

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Román, José M. Fernández-Sevilla and Emilio Molina-Grima

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Growth, Yield, and Fruit Quality of Pepper Plants Amended with Two Sanitized Sewage Sludges

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The Bioavailable Octapeptide Gly-Ala-Hyp-Gly-Leu-Hyp-Gly-Pro Stimulates Nitric Oxide Synthesis in Vascular Endothelial Cells

Kazuo Shimizu, Mikako Sato, Youzuo Zhang, Tomomi Kouguchi, Yoshihisa Takahata, Fumiki Morimatsu and Makoto Shimizu

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Xin-Hua Chen, Le-Xian Xia, Hong-Bo Zhou and Guan-Zhou Qiu

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Evolution of Sesquiterpene Hydrocarbons in Virgin Olive Oil during Fruit Ripening

Stefania Vichi, Aida Lazzez, Naziha Grati Kamoun, Elvira López-Tamames and Susana Buxaderas

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Microencapsulation by Spray-Drying of Anthocyanin Pigments from Corozo (*Bactris guineensis*) Fruit

Coralía Osorio, Baudilio Acevedo, Silke Hillebrand, José Carriazo, Peter Winterhalter and Alicia Lucía Morales

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Bruno Reis, Marta Martins, Bárbara Barreto, Nuno Milhazes, E. Manuela Garrido, Paulo Silva, Jorge Garrido and Fernanda Borges

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Kinetics of Myoglobin Redox Form Stabilization by Malate Dehydrogenase

Anand Mohan, S. Muthukrishnan, Melvin C. Hunt, Thomas J. Barstow and Terry A. Houser

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Differential Accumulation of Polyphenolics in Black Bean Genotypes Grown in Four Environments

M. A. Susan Marles, Parthiba Balasubramanian and Kirstin E. Bett

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Short-Chain Fructooligosaccharide Regulates Hepatic Peroxisome Proliferator-Activated Receptor α and Farnesoid X Receptor Target Gene Expression in Rats

Tomoyuki Fukasawa, Asuka Kamei, Yuki Watanabe, Jinichiro Koga and Keiko Abe

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Suppression of γ -Tocotrienol on UVB Induced Inflammation in HaCaT Keratinocytes and HR-1 Hairless Mice via Inflammatory Mediators Multiple Signaling

Akira Shibata, Kiyotaka Nakagawa, Yuki Kawakami, Tsuyoshi Tsuzuki and Teruo Miyazawa

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Myoglobin Redox Form Stabilization by Compartmentalized Lactate and Malate Dehydrogenases

Anand Mohan, Melvin C. Hunt, S. Muthukrishnan, Thomas J. Barstow and Terry A. Houser

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Publication Date (Web): May 14, 2010 (Article)

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Dietary Sphingolipids Ameliorate Disorders of Lipid Metabolism in Zucker Fatty Rats

Keita Yunoki, Musha Renaguli, Mikio Kinoshita, Hiroyuki Matsuyama, Shiro Mawatari, Takehiko Fujino, Yoshirou Kodama, Masaaki Sugiyama and Masao Ohnishi

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Seasonal Variations in Skin Pigmentation and Flesh Quality of Atlantic Salmon (*Salmo salar* L.): Implications for Quality Management

Eric Leclercq, James R. Dick, John F. Taylor, J. Gordon Bell, Dougie Hunter and Herve Migaud

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El-Sayed M. Abdel-Aal, Pierre Hucl, Carol Ann Patterson and Danielle Gray

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Stabilization of Whey Protein Isolate–Pectin Complexes by Heat

Marie-Claude Gentes, Daniel St-Gelais and Sylvie L. Turgeon

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Stabilization of Phase Inversion Temperature Nanoemulsions by Surfactant Displacement

Jiajia Rao and David Julian McClements

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Stilbenic Profile of Cocoa Liquors from Different Origins Determined by RP-HPLC-APCI(+)-MS/MS. Detection of a New Resveratrol Hexoside

Vesna Jerkovic, Meike Bröhan, Elise Monnard, Fanny Nguyen, Sabrina Nizet and Sonia Collin

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Improvement in High-Fat Diet-Induced Obesity and Body Fat Accumulation by a *Nelumbo nucifera* Leaf Flavonoid-Rich Extract in Mice

Cheng-Hsun Wu, Mon-Yuan Yang, Kuei-Chuan Chan, Pei-Jun Chung, Ting-Tsz Ou and Chau-Jong Wang

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Chrysin Suppresses IL-6-Induced Angiogenesis via Down-regulation of JAK1/STAT3 and VEGF: An in Vitro and in Ovo Approach

Chiu-Mei Lin, Kou-Gi Shyu, Bao-Wei Wang, Hang Chang, Yen-Hsu Chen and Jen-Hwey Chiu

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Pine Bark Extract Enzogenol Attenuated Tumor Necrosis Factor- α -Induced Endothelial Cell Adhesion and Monocyte Transmigration

Dong Shoo Kim, Min-Soo Kim, Sang-Wook Kang, Hye-Young Sung and Young-Hee Kang

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Allyl Sulfides Inhibit Cell Growth of Skin Cancer Cells through Induction of DNA Damage Mediated G₂/M Arrest and Apoptosis

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s-Ethyl Cysteine and s-Propyl Cysteine Alleviate β -Amyloid Induced Cytotoxicity in Nerve Growth Factor Differentiated PC12 Cells

Shih-Jei Tsai, Chia-Yu Lin, Mei-Chin Mong, Mao-Wang Ho and Mei-Chin Yin

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