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Results of the EU FP6 Healthgrain Diversity Screen of Bioactive Components in Cereals

The HEALTHGRAIN Cereal Diversity Screen: Concept, Results, and Prospects

Jane L. Ward, Kaisa Poutanen, Kurt Gebruers, Vieno Piironen, Anna-Maija Lampi, Laura Nyström, Annica A. M. Andersson, Per Åman, Danuta Boros, Mariann Rakszegi, Zoltan Bedő and Peter R. Shewry
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Publication Date (Web): October 15, 2008 (Article)

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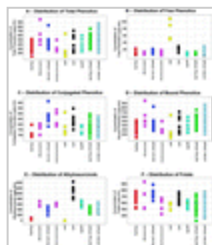



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DOI: 10.1021/jf8010678

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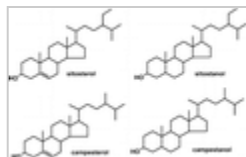
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Phenolic Antioxidants and Antiatherogenic Effects of Marula (*Sclerocarya birrea* Subsp. *caffra*) Fruit Juice in Healthy Humans

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Effect of Cultivar on the Protection of Cardiomyocytes from Oxidative Stress by Essential Oils and Aqueous Extracts of Basil (*Ocimum basilicum* L.)





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Carotenoid Bioaccessibility from Whole Grain and Degermed Maize Meal Products





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GC-MS Determination of Isoflavonoids in Seven Red Cuban Propolis Samples





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Acaricidal Constituents Isolated from *Sinapis alba* L. Seeds and Structure–Activity Relationships





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New Phenolic Compounds and Antioxidant Potential of *Catharanthus roseus*

Federico Ferreres, David M. Pereira, PatrÍcia ValentÍo, Paula B. Andrade, Rosa M. Seabra and Mariana





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Effect of the Corn Breaking Method on Oil Distribution between Stillage Phases of Dry-Grind Corn Ethanol Production





H. Wang, T. Wang, L. A. Johnson and A. L. Pometto, III

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Computerized Screening for Novel Producers of *Monascus*-like Food Pigments in *Penicillium* Species





Sameer A. S. Mapari, Michael E. Hansen, Anne S. Meyer and Ulf Thrane

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Chemical Aspects of Food Safety

Ultraviolet-C and Induced Stilbenes Control Ochratoxigenic *Aspergillus* in Grapes





María V. Selma, Paula M. Freitas, Luis Almela, Rocío González-Barrío, Juan Carlos Espín, Trevor Suslow, Francisco Tomás-Barberán and María I. Gil

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Jérémie Pinte, Catherine Joly, Karen Plé, Patrice Dole and Alexandre Feigenbaum

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Enzymatic Treatment To Improve Extraction of Capsaicinoids and Carotenoids from Chili (*Capsicum annuum*) Fruits

Manuel Salgado-Roman, Enrique Botello-Alvarez, Ramiro Rico-Martínez, Hugo Jiménez-Islas, Marcela Cárdenas-Manríquez and José Luis Navarrete-Bolaños

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Performing a Three-Step Process for Conversion of Chitosan to Its Oligomers Using a Unique Bipolar Membrane Electrodialysis System

Fabrice Lin Teng Shee, Joseph Arul, Serge Brunet and Laurent Bazinet

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d-chiro-Inositol-Enriched Tartary Buckwheat Bran Extract Lowers the Blood Glucose Level in KK-AY Mice





Yang Yao, Fang Shan, Junsheng Bian, Feng Chen, Mingfu Wang and Guixing Ren

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Antioxidative Activity and Antidiscoloration Efficacy of Ergothioneine in Mushroom (*Flammulina velutipes*) Extract Added to Beef and Fish Meats





Huynh N. D. Bao, Hideki Ushio and Toshiaki Ohshima

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Hydrolysis Kinetics of Secoisolariciresinol Diglucoside Oligomers from Flaxseed





Jian-Ping Yuan, Xin Li, Shi-Ping Xu, Jiang-Hai Wang and Xin Liu

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Influence of the Decrease in Oxygen during Malaxation of Olive Paste on the Composition of Volatiles and Phenolic Compounds in Virgin Olive Oil

Maurizio Servili, Agnese Taticchi, Sonia Esposto, Stefania Urbani, Roberto Selvaggini and GianFrancesco





Montedoro

pp 10048-10055

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Influence of Irrigation and Organic/Inorganic Fertilization on Chemical Quality of Almond (*Prunus amygdalus* cv. Guara)

P. Sánchez-Bel, I. Egea, M. C. Martínez-Madrid, B. Flores and F. Romojaro

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Nutritive and Antioxidative Potential of Fresh and Stored Pomegranate Industrial Byproduct as a Novel Beef Cattle Feed

Ariel Shabtay, Harel Eitam, Yaakov Tadmor, Alla Orlov, Ayala Meir, Pnina Weinberg, Zwika G. Weinberg, Yaira

Chen, Arie Brosh, Ido Izhaki and Zohar Kerem

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Anthocyanin and Ascorbic Acid Degradation in Sonicated Strawberry Juice

B. K. Tiwari, C. P. O'Donnell, A. Patras and P. J. Cullen

pp 10071-10077

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Novel Process of Fermenting Black Soybean [*Glycine max* (L.) Merrill] Yogurt with Dramatically Reduced Flatulence-Causing Oligosaccharides but Enriched Soy Phytoalexins

Shengbao Feng, Chin Lee Saw, Yuan Kun Lee and Dejian Huang

pp 10078-10084

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Reduction of Virgin Olive Oil Bitterness by Fruit Cold Storage





Khaled Yousfi, José A. Cayuela and José M. García

pp 10085-10091

Publication Date (Web): October 20, 2008 ([Article](#))

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Chemical Composition of Foods/ Feeds

Effect of Iron–Quercetin Complex on Reduction of Nitrite in in Vitro and in Vivo Systems

Hideki Ohnishi, Satoshi Iwanaga, Kazuyoshi Kawazoe, Keisuke Ishizawa, Sakiko Orino, Shuhei Tomita, Koichiro

Tsuchiya, Yasuhisa Kanematsu, Nagakatsu Harada, Kazuhiro Mori, Tomoko Tsuchihashi, Yasuko Ishikawa and





Toshiaki Tamaki

pp 10092-10098

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Phytoestrogen Content of Foods of Animal Origin: Dairy Products, Eggs, Meat, Fish, and Seafood

Gunter G. C. Kuhnle, Caterina Dell'Aquila, Sue M. Aspinall, Shirley A. Runswick, Angela A. Mulligan and Sheila A.





Bingham

pp 10099-10104

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Identification of Hydroxycinnamoylquinic Acids of Arnica Flowers and Burdock Roots Using a Standardized LC-DAD-ESI/MS Profiling Method

Long-Ze Lin and James M. Harnly

pp 10105-10114

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Microwave-Assisted Lignin Isolation Using the Enzymatic Mild Acidolysis (EMAL) Protocol

Luca Zoia, Marco Orlandi and Dimitris S. Argyropoulos

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Effects of Light Treatment on Isoflavone Content of Germinated Soybean Seeds

Sviengkhek Phommalth, Yeon-Shin Jeong, Yong-Hoon Kim, Krishna Hari Dhakal and Young-Hyun Hwang

pp 10123-10128

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Effects of Extraction Methods on Phenolic Contents and Antioxidant Activity in Aerial Parts of *Potentilla atosanguinea* Lodd. and Quantification of Its Phenolic Constituents by RP-HPLC




Kalpana Kalia, Kapil Sharma, Harsh Pratap Singh and Bikram Singh

pp 10129-10134

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Taking NIR Calibrations of Feed Compounds from the Laboratory to the Process: Calibration Transfer between Predispersive and Postdispersive Instruments



Elvira Fernández-Ahumada, Ana Garrido-Varo, José E. Guerrero, Dolores Pérez-Marín and Tom Fearn

pp 10135-10141

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Revealing the Metabonomic Variation of Rosemary Extracts Using ^1H NMR Spectroscopy and Multivariate Data Analysis

Chaoni Xiao, Hui Dai, Hongbing Liu, Yulan Wang and Huiru Tang

pp 10142-10153

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Structures and Antioxidant Activity of Anthocyanins in Many Accessions of Eggplant and Its Related Species

Keiko Azuma, Akio Ohyama, Katsunari Ippoushi, Takashi Ichianagi, Atsuko Takeuchi, Takeo Saito and Hiroyuki

Fukuoka

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Crop and Animal Protection Chemistry

Synthesis and Antiviral Activities of Pyrazole Derivatives Containing an Oxime Moiety

Guiping Ouyang, Xue-Jian Cai, Zhuo Chen, Bao-An Song, Pinaki S. Bhadury, Song Yang, Lin-Hong Jin, Wei Xue, De-Yu Hu and Song Zeng

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Comparative Metabolism and Pharmacokinetics of Seven Neonicotinoid Insecticides in Spinach

Kevin A. Ford and John E. Casida


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Synthesis, Insecticidal, and Acaricidal Activities of Novel 2-Aryl-pyrrole Derivatives Containing Ester Groups

Yu Zhao, Yongqiang Li, Xiaoming Ou, Pengxiang Zhang, Zhiqiang Huang, Fuchun Bi, Runqiu Huang and Qingmin Wang

pp 10176-10182

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Influence of Edaphic Factors on the Mineralization of Neem Oil Coated Urea in Four Indian Soils

Rajesh Kumar, C. Devakumar, Dinesh Kumar, P. Panneerselvam, Garima Kakkar and T. Arivalagan

pp 10183-10191

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Environmentally Friendly Formulations of Alachlor and Atrazine: Preparation, Characterization, and Reduced Leaching

Trinidad Sánchez-Verdejo, Tomás Undabeytia, Shlomo Nir, Jaime Villaverde, Celia Maqueda and Esmeralda Morillo

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Adsorption Effect on the Degradation of Carbaryl, Mecoprop, and Paraquat by Anodic Fenton Treatment in an SWy-2 Montmorillonite Clay Slurry





Peng Ye and Ann T. Lemley

pp 10200-10207

Publication Date (Web): October 14, 2008 (Article)

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Flavors and Aromas/Chemosensory Perception

Interactions between β -Lactoglobulin and Aroma Compounds: Different Binding Behaviors as a Function of Ligand Structure





Laurette Tavel, Isabelle Andriot, Céline Moreau and Elisabeth Guichard

pp 10208-10217

Publication Date (Web): October 20, 2008 (Article)

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Binding of Flavor Compounds and Whey Protein Isolate as Affected by Heat and High Pressure Treatments





Janina Kühn, Thérèse Considine and Harjinder Singh

pp 10218-10224

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Analysis of Volatiles in Pinotage Wines by Stir Bar Sorptive Extraction and Chemometric Profiling

Berhane T. Weldegergis and Andrew M. Crouch

pp 10225-10236

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Comparison of the Key Aroma Compounds in Organically Grown, Raw West-African Peanuts (*Arachis hypogaea*) and in Ground, Pan-Roasted Meal Produced Thereof

Irene Chetschik, Michael Granvogl and Peter Schieberle

pp 10237-10243

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Changes in Key Aroma Compounds of Criollo Cocoa Beans During Roasting

Felix Frauendorfer and Peter Schieberle

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Reinvestigation of the Bitter Compounds in Carrots (*Daucus carota* L.) by Using a Molecular Sensory Science Approach

Ludger Schmiech, Daisuke Uemura and Thomas Hofmann

pp 10252-10260

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Two Different Proteases from *Streptomyces hygrosopicus* Are Involved in Transglutaminase Activation

Dongxu Zhang, Miao Wang, Jing Wu, Li Cui, Guocheng Du and Jian Chen

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Anti-Inflammatory Effects of Sinapic Acid through the Suppression of Inducible Nitric Oxide Synthase, Cyclooxygenase-2, and Proinflammatory Cytokines Expressions via Nuclear Factor- κ B Inactivation

Kyung-Jin Yun, Duck-Jae Koh, Shi-Hye Kim, Seung Jae Park, Jong Hoon Ryu, Deog-Gon Kim, Jin-Yong Lee and Kyung-Tae Lee

pp 10265-10272

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Comparison of Physicochemical Properties of 7S and 11S Globulins from Pea, Fava Bean, Cowpea, and French Bean with Those of Soybean □ French Bean 7S Globulin Exhibits Excellent Properties

Aiko Kimura, Takako Fukuda, Meili Zhang, Shiori Motoyama, Nobuyuki Maruyama and Shigeru Utsumi

pp 10273-10279

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Phytochemical Diversity in Tubers of Potato Cultivars and Landraces Using a GC-MS Metabolomics Approach

Gary Dobson, Tom Shepherd, Susan R. Verrall, Sean Conner, James W. McNicol, Gavin Ramsay, Louise V. T. Shepherd, Howard V. Davies and Derek Stewart

pp 10280-10291

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Surface-Associated Proteins of Wheat Starch Granules: Suitability of Wheat Starch for Celiac Patients

Donald D. Kasarda, Frances M. Dupont, William H. Vensel, Susan B. Altenbach, Rocio Lopez, Charlene K. Tanaka

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Thermal Stability of Anthocyanin Extract of *Hibiscus sabdariffa* L. in the Presence of β -Cyclodextrin

Ioannis Mourtzinou, Dimitris P. Makris, Konstantina Yannakopoulou, Nick Kalogeropoulos, Iliana Michali and Vaios

T. Karathanos

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Expression Profiling of Muscle Reveals Transcripts Differentially Expressed in Muscle That Affect Water-Holding Capacity of Pork

Sriluck Ponsuksili, Eduard Murani, Chirawath Phatsara, Elisabeth Jonas, Christina Walz, Manfred Schwerin, Karl

Schellander and Klaus Wimmers

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Isolation and Identification of Oligomers from Partial Degradation of Lime Fruit Cutin

Shiying Tian, Xiuhua Fang, Weimin Wang, Bingwu Yu, Xiaofang Cheng, Feng Qiu, Andrew J. Mort and Ruth E.

Stark

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New Qualitative Approach in the Characterization of Antioxidants in White Wines by Antioxidant Free Radical Scavenging and NMR Techniques

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Hydrolysis of Whey Protein Isolate with *Bacillus licheniformis* Protease: Aggregating Capacities of Peptide Fractions

Nathalie Creusot and Harry Gruppen

pp 10332-10339

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Effects of Epilactose on Calcium Absorption and Serum Lipid Metabolism in Rats

Megumi Nishimukai, Jun Watanabe, Hidenori Taguchi, Takeshi Senoura, Shigeki Hamada, Hirokazu Matsui, Takeshi Yamamoto, Jun Wasaki, Hiroshi Hara and Susumu Ito

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Isolated Glycosaminoglycans from Cooked Haddock Enhance Nonheme Iron Uptake by Caco-2 Cells

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

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Yie Hui Yong and E. Allen Foegeding

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Radical Scavenging and Reducing Ability of Tilapia (*Oreochromis niloticus*) Protein Hydrolysates

Sivakumar Raghavan, Hordur G. Kristinsson and Christiaan Leeuwenburgh

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Peroxidase-Catalyzed Oligomerization of Ferulic Acid Esters

Mirko Bunzel, Birgit Heuermann, Hoon Kim and John Ralph

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Daidzein as an Antioxidant of Lipid: Effects of the Microenvironment in Relation to Chemical Structure

Jun Liang, Yu-Xi Tian, Li-Min Fu, Tian-He Wang, Hai-Jun Li, Peng Wang, Rui-Min Han, Jian-Ping Zhang and Leif H.

Skibsted

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Developing an Emulsifier System To Improve the Bioaccessibility of Carotenoids

Elisabet Fernández-García, Francisco Rincón and Antonio Pérez-Gálvez

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Characteristic Hydrocarbons and 2-Alkylcyclobutanones for Detecting γ -Irradiated Sesame Seeds after Steaming, Roasting, and Oil Extraction

Jeongeun Lee, Tusneem Kausar and Joong-Ho Kwon

pp 10391-10395

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Esterification and Hydrolytic Activities of *Candida rugosa* Lipase Isoform 1 (LIP1) Immobilized on Celite 545, Duolite A7, and Sephadex G-25

Stephen E. Lumor and Casimir C. Akoh

pp 10396-10398

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Cacao Polyphenol Extract Suppresses Transformation of an Aryl Hydrocarbon Receptor in C57BL/6 Mice

Rie Mukai, Itsuko Fukuda, Shin Nishiumi, Midori Natsume, Naomi Osakabe, Ken-ichi Yoshida and Hitoshi Ashida

pp 10399-10405

Publication Date (Web): October 20, 2008 ([Article](#))

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Molecular Nutrition

Interaction between Ascorbic Acid and Chlorogenic Acid during the Formation of Nitric

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Oxide in Acidified Saliva

Umeo Takahama, Mariko Tanaka and Sachiko Hirota

pp 10406-10413

Publication Date (Web): October 15, 2008 ([Article](#))

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Impact of Food Disinfection on Beneficial Biophilic Contents in Strawberry

Omca Demirkol, Arzu Cagri-Mehmetoglu, Zhimin Qiang, Nuran Ercal and Craig Adams

pp 10414-10421

Publication Date (Web): October 17, 2008 ([Article](#))

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Toxicology in Agriculture and Food





Inhibition of Gap Junctional Intercellular Communication by the Green Tea Polyphenol (-)-Epigallocatechin Gallate in Normal Rat Liver Epithelial Cells

Nam Joo Kang, Kyung Mi Lee, Jong Hun Kim, Bo Kyung Lee, Jung Yeon Kwon, Ki Won Lee and Hyong Joo Lee

pp 10422-10427

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Polycyclic Aromatic Hydrocarbons in Spanish Olive Oils: Relationship between Benzo(a)pyrene and Total Polycyclic Aromatic Hydrocarbon Content

Rafael Rodríguez-Acuña, María del Carmen Pérez-Camino, Arturo Cert and Wenceslao Moreda

pp 10428-10432

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Logistic Regression Modeling of Cropping Systems To Predict Fumonisin Contamination in Maize





Paola Battilani, Amedeo Pietri, Carlo Barbano, Andrea Scandolaro, Terenzio Bertuzzi and Adriano Marocco

pp 10433-10438

Publication Date (Web): October 9, 2008 ([Article](#))

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Development of a LC-MS/MS Method for the Analysis of Enniatins and Beauvericin in Whole Fresh and Ensiled Maize





Jens Laurids Sørensen, Kristian Fog Nielsen, Peter Have Rasmussen and Ulf Thrane

pp 10439-10443

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Additions and Corrections

Tastes and Structures of Bitter Peptide, Asparagine-Alanine-Leucine-Proline-Glutamate, and Its Synthetic Analogues

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