

FOOD RESEARCH INTERNATIONAL

CONTENTS

Volume 64 October 2014

Reviews

- 171** Natural antioxidants against lipid–protein oxidative deterioration in meat and meat products: A review
A.B. Falowo, P.O. Fayemi, V. Muchenje (South Africa)
- 200** Structure, physicochemical properties, and uses of millet starch
F. Zhu (New Zealand)
- 348** Evolution of the *Anisakis* risk management in the European and Italian context
P. D'amico, R. Malandra, F. Costanzo, L. Castigliego, A. Guidi, D. Gianfaldoni, A. Armani (Italy)
- 527** Overview of *Lactobacillus plantarum* as a promising bacteriocin producer among lactic acid bacteria
S. da Silva Sabo, M. Vitolo, J.M.D. González, R.P.d.S. Oliveira (Brazil, Spain)
- 567** Probiotic bacteria in infant formula and follow-up formula: Microencapsulation using milk and pea proteins to improve microbiological quality
R.M. Kent, S.B. Doherty (Ireland)

Research Articles

- 1** Frozen pulp extracts of camu-camu (*Myrciaria dubia* McVaugh) attenuate the hyperlipidemia and lipid peroxidation of Type 1 diabetic rats
A.E. de Souza Schmidt Gonçalves, C. Lellis-Santos, R. Curi, F.M. Lajolo, M.I. Genovese (Brazil)
- 9** In situ synchrotron radiation X-ray scattering study on the effect of a stearic sucrose ester on polymorphic behavior of a new sunflower oil variety
J.A. Rincón-Cardona, L.M. Agudelo-Laverde, S. Martini, R.J. Candal, M.L. Herrera (Argentina, United States)
- 18** Observations on the water distribution and extractable sugar content in carrot slices after pulsed electric field treatment
I. Aguiló-Aguayo, G. Downey, D.F. Keenan, J.G. Lyng, N. Brunton, D.K. Rai (Ireland)
- 25** Sensory profiling of Egyptian goose (*Alopochen aegyptiacus*) meat
G. Geldenhuys, L.C. Hoffman, M. Muller (South Africa)
- 34** Comparative evaluation of CO₂ drying as an alternative drying technique of basil (*Ocimum basilicum* L.) – The effect on bioactive and sensory properties
A. Bušić, A. Vojvodić, D. Komes, C. Akkermans, A. Belščak-Cvitanović, M. Stolk, G. Hofland (Croatia, The Netherlands)
- 43** Beneficial effects of fermented vegetal beverages on human gastrointestinal microbial ecosystem in a simulator
F. Bianchi, E.A. Rossi, I.K. Sakamoto, M.A.T. Adorno, T. Van de Wiele, K. Sivieri (Brazil, Belgium)
- 53** Dietary polysaccharide extracts of *Agaricus brasiliensis* fruiting bodies: chemical characterization and bioactivities at different levels of purification
M. Kozarski, A. Klaus, D. Jakovljevic, N. Todorovic, M. Niksic, M.M. Vrvic, L.J.L.D. van Griensven (Serbia, The Netherlands)
- 65** Sensory expectations and perceptions of Austrian and Thai consumers: A case study with six colored Thai desserts
S. Jantathai, M. Sungsr-in, A. Mukprasirt, K. Duerrschnid (Austria, Thailand)
- 74** Increased loading of vitamin D₂ in reassembled casein micelles with temperature-modulated high pressure treatment
O. Menéndez-Aguirre, A. Kessler, W. Stuetz, T. Grune, J. Weiss, J. Hinrichs (Germany)
- 81** Facial expressions and autonomous nervous system responses elicited by tasting different juices
L. Danner, S. Haindl, M. Joechl, K. Duerrschnid (Austria)

(Continued on next page)

- 91 Preparation and identification of peptides and their zinc complexes with antimicrobial activities from silver carp (*Hypophthalmichthys molitrix*) protein hydrolysates
L. Jiang, B. Wang, B. Li, C. Wang, Y. Luo (China)
- 99 Release kinetics of flavonoids in methyl linoleate from microparticles designed with inulin and channelizing agent
M. Palma, P. García, G. Márquez-Ruiz, C. Vergara, P. Robert (Chile, Spain)
- 106 Antioxidant balance after long-term consumption of standard diets including bread crust glycated compounds by adult rats
S. Pastoriza, I. Roncero-Ramos, J.Á. Rufián-Henares, C. Delgado-Andrade (Spain)
- 114 Chromium in soil and tea (*Camellia sinensis* L.) infusion: Does soil amendment with municipal solid waste compost make sense?
T. Karak, R.K. Paul, I. Sonar, S. Sanyal, K.Z. Ahmed, R.K. Boruah, D.K. Das, A.K. Dutta (India)
- 125 Pharmacokinetics of caffeine and its metabolites in plasma and urine after consuming a soluble green/roasted coffee blend by healthy subjects
S. Martínez-López, B. Sarriá, G. Baeza, R. Mateos, L. Bravo-Clemente (Spain)
- 134 Microencapsulation of β -galactosidase with different biopolymers by a spray-drying process
B.N. Estevinho, A.M. Damas, P. Martins, F. Rocha (Portugal)
- 141 Molecular interaction between (-)-epigallocatechin-3-gallate and bovine lactoferrin using multi-spectroscopic method and isothermal titration calorimetry
W. Yang, F. Liu, C. Xu, F. Yuan, Y. Gao (China)
- 150 Infusion, decoction and hydroalcoholic extracts of leaves from artichoke (*Cynara cardunculus* L. subsp. *cardunculus*) are effective scavengers of physiologically relevant ROS and RNS
M. Pistón, I. Machado, C.S. Branco, V. Cesio, H. Heinzen, D. Ribeiro, E. Fernandes, R.C. Chisté, M. Freitas (Uruguay, Brazil, Portugal)
- 157 Production, characterization and foamability of α -lactalbumin/glycomacropeptide supramolecular structures
R.S. Diniz, J.S.d.R. Coimbra, Á.V.N.d.C. Teixeira, A.R. da Costa, I.J.B. Santos, G.C. Bressan, A.M. da Cruz Rodrigues, L.H.M. da Silva (Brazil)
- 182 Depuration kinetics of murine norovirus in shellfish
D. Polo, X. Feal, M.F. Varela, A. Monteagudo, J.L. Romalde (Spain)
- 188 Chemical composition, nutritional value and antioxidant properties of autochthonous *Prunus avium* cultivars from Campania Region
S. Pacifico, A. Di Maro, M. Petriccione, S. Galasso, S. Piccolella, A.M.A. Di Giuseppe, M. Scorticini, P. Monaco (Italy)
- 212 Inactivation of *Lactobacillus plantarum* WCFS1 during spray drying and storage assessed with complementary viability determination methods
J. Perdana, H.M. den Besten, D.C. Aryani, O. Kutahya, M.B. Fox, M. Kleerebezem, R.M. Boom, M.A.I. Schutyser (The Netherlands)
- 218 Metabolomic fingerprints of 21 date palm fruit varieties from Egypt using UPLC/PDA/ESI-qTOF-MS and GC-MS analyzed by chemometrics
M.A. Farag, M. Mohsen, R. Heinke, L.A. Wessjohann (Egypt, Germany)
- 227 Instrumental evaluation and influence of gender and/or age among consumers on textural preference of deep-fried peanuts
A. Miyagi, Y. Ogaki (Japan)
- 241 Addition of probiotic bacteria in a semi-hard goat cheese (coalho): Survival to simulated gastrointestinal conditions and inhibitory effect against pathogenic bacteria
M.E. Gomes de Oliveira, E. Fernandes Garcia, C.E. Vasconcelos de Oliveira, A.M. Pereira Gomes, M.M. Esteves Pintado, A.R.M. Ferreira Madureira, M.L. da Conceição, R.d.C. Ramos do EgypQueiroga, E.L. de Souza (Brazil, Portugal)
- 248 In vitro antioxidant and anti-inflammation properties of lactic acid bacteria isolated from fish intestines and fermented fish from the Sanriku *Satoumi* region in Japan
T. Kuda, M. Kawahara, M. Nemoto, H. Takahashi, B. Kimura (Japan)

- 256** Dietary fatty acid determines the intestinal absorption of lutein in lutein deficient mice
B. Nidhi, T.R. Ramaprasad, V. Baskaran (India)
- 264** Regional characteristics of anthocyanin and flavonol compounds from grapes of four *Vitis vinifera* varieties in five wine regions of China
N.-N. Liang, B.-Q. Zhu, S. Han, J.-H. Wang, Q.-H. Pan, M.J. Reeves, C.-Q. Duan, F. He (China, New Zealand)
- 275** Modulation of nutritional and antioxidant potential of seeds and pericarp of pea pods treated with microbial consortium
A. Jain, A. Singh, A. Chaudhary, S. Singh, H.B. Singh (India)
- 283** Fermented or unfermented milk using *Bifidobacterium animalis* subsp. *lactis* HN019: Technological approach determines the probiotic modulation of mucosal cellular immunity
C.S.B. Bogsan, L. Ferreira, C. Maldonado, G. Perdigon, S.R. Almeida, M.N. Oliveira (Brazil, Argentina)
- 289** Balanced incomplete block design: an alternative for data collection in the optimized descriptive profile
R.D.C.D.S.N.D. Silva, V.P.R. Minim, A.N.d. Silva, A.A. Simiqueli, S.M. Della Lucia, L.A. Minim (Brazil)
- 298** Cherry tomato supplementation increases the area of the intestinal mucosa and the number of muscle layers in rats
D. Hwang, J.-H. Koh, J. Lee, Y. Kim, Y.-H. Lim (Republic of Korea)
- 305** An investigation into the nature of wheat flour dough adhesive behaviour
D. Ghorbel, B. Launay (France)
- 314** Extraction and characterization of pectic polysaccharides from easy- and hard-to-cook common beans (*Phaseolus vulgaris*)
D.M. Njoroge, P.K. Kinyanjui, A.O. Makokha, S. Christiaens, A. Shpigelman, D.N. Sila, M.E. Hendrickx (Belgium, Kenya)
- 323** The aggregation of soy protein isolate on the surface of *Bifidobacterium*
Q. Pan, B. Zhou, L. Liu, L. Wang, F. Yuan, Y. Gao (PR China)
- 329** Fabrication of surfactant-stabilized zein nanoparticles: A pH modulated antisolvent precipitation method
K. Hu, D.J. McClements (China, USA, Saudi Arabia)
- 336** Determination, analysis and prediction of the volumetric behavior of milk at high pressure
B. Guignon, I. Rey-Santos, P.D. Sanz (Spain)
- 363** Wheat flour granulometry determines colour perception
A. Hidalgo, L. Fongaro, A. Brandolini (Italy)
- 371** Expanded Fermi Solution to estimate health risks or benefits from interacting factors
M. Peleg, M.D. Normand (USA)
- 380** Discrimination of Brazilian artisanal and inspected pork sausages: Application of unsupervised, linear and non-linear supervised chemometric methods
J.A. Matera, A.G. Cruz, R.S.L. Raices, M.C. Silva, L.C. Nogueira, S.L. Quitério, R.N. Cavalcanti, M.Q. Freiras, C.A. Conte Júnior (Brazil)
- 387** Chemopreventive effects of standardized papaya leaf fraction on oxidatively stressed human liver cells
S.-A. Tan, L. Goya, S. Ramanathan, S.F. Sulaiman, M. Alam, V. Navaratnam (Malaysia, Spain, USA)
- 396** Interaction of cationic antimicrobial (ϵ -polylysine) with food-grade biopolymers: Dextran, chitosan, carrageenan, alginate, and pectin
Y. Chang, L. McLandsborough, D.J. McClements (United States, PR China, Saudi Arabia)
- 402** Role of growth morphology in the formulation of NaCl-based selective media for injury detection of *Escherichia coli*, *Salmonella Typhimurium* and *Listeria innocua*
E. Noriega, E.G. Velliou, E. Van Derlinden, L. Mertens, J.F.M. Van Impe (Belgium)
- 412** Effect of konjac glucomannan addition on aroma release in gels containing potato starch
C. Lafarge, N. Cayot, C. Hory, L. Goncalves, C. Chassemont, P. Le Bail (France)

- 424** Retention effect of human saliva on aroma release and respective contribution of salivary mucin and α -amylase
S. Pagès-Hélary, I. Andriot, E. Guichard, F. Canon (France)
- 432** The influence of ripeness grade on the composition of musts and wines from *Vitis vinifera* cv. Tempranillo grown in a warm climate
C. Lasanta, I. Caro, J. Gómez, L. Pérez (Spain)
- 439** Effect of warming on protein, glycogen and fatty acid content of native and invasive clams
P. Anacleto, A.L. Maulvault, N.M. Bandarra, T. Repolho, M.L. Nunes, R. Rosa, A. Marques (Portugal)
- 446** Comparison of rapid sensory characterization methodologies for the development of functional yogurts
R.S. Cadena, D. Caimi, I. Jaunarena, I. Lorenzo, L. Vidal, G. Ares, R. Deliza, A. Giménez (Uruguay, Brazil)
- 456** Consumer perceptions of satiating and meal replacement bars, built up from cues in packaging information, health claims and nutritional claims
M. Miraballes, S. Fiszman, A. Gámbaro, P. Varela (Uruguay, Spain, Norway)
- 465** Potential use of new Colombian sources of betalains. Color stability of ulluco (*Ullucus tuberosus*) extracts under different pH and thermal conditions
M.J. Cejudo-Bastante, N. Hurtado, N. Mosquera, F.J. Heredia (Spain, Colombia)
- 472** Comprehensive characterization of lipids from Amazonian vegetable oils by mass spectrometry techniques
G.A. Bataglion, F.M.A. da Silva, J.M. Santos, F.N. dos Santos, M.T. Barcia, C.C. de Lourenço, M.J. Salvador, H.T. Godoy, M.N. Eberlin, H.H.F. Koolen (Brazil)
- 482** The ability to store energy in pea protein gels is set by network dimensions smaller than 50 nm
C.D. Munialo, E. van der Linden, H.H.J. de Jongh (The Netherlands)
- 492** Improved *in vitro* digestion stability of (-)-epigallocatechin gallate through nanoliposome encapsulation
L.-q. Zou, S.-f. Peng, W. Liu, L. Gan, W.-l. Liu, R.-h. Liang, C.-m. Liu, J. Niu, Y.-l. Cao, Z. Liu, X. Chen (China)
- 500** A dose-response study of the bioavailability of grape seed proanthocyanidin in rat and lipid-lowering effects of generated metabolites in HepG2 cells
M. Margalef, L. Guerrero, Z. Pons, F.I. Bravo, L. Arola, B. Muguerza, A. Arola-Arnal (Spain, Colombia)
- 508** Human saliva protein profile: Influence of food ingestion
E. Brandão, S. Soares, N. Mateus, V. de Freitas (Portugal)
- 514** Determination of amorphous/rubbery states in freeze-dried prebiotic sugars using a combined approach of near-infrared spectroscopy and multivariate analysis
M.I. Santos, C. Araujo-Andrade, E.E. Tymczyszyn, A. Gómez-Zavaglia (Argentina, Mexico)
- 520** Encapsulation, protection, and release of polyunsaturated lipids using biopolymer-based hydrogel particles
Z. Zhang, E.A. Decker, D.J. McClements (USA, Saudi Arabia)
- 537** Diversity and probiotic potentials of lactic acid bacteria isolated from gilaburu, a traditional Turkish fermented European cranberrybush (*Viburnum opulus* L.) fruit drink
O. Sagdic, I. Ozturk, N. Yapar, H. Yetim (Turkey)
- 546** Effects of hypercholesterolemic diet enriched with onion as functional ingredient on fatty acid metabolism in Wistar rats
C. Colina-Coca, L.M. Rodríguez-Alcalá, J. Fontecha, D. González-Peña, B. de Ancos, C. Sánchez-Moreno (Spain)
- 553** Effect of virgin and refined olive oil consumption on gut microbiota. Comparison to butter
M. Hidalgo, I. Prieto, H. Abriouel, A. Cobo, N. Benomar, A. Gálvez, M. Martínez-Cañamero (Spain)
- 560** Edible methylcellulose-based films containing fructo-oligosaccharides as vehicles for lactic acid bacteria
N. Romano, M.J. Tavera-Quiroz, N. Bertola, P. Mobili, A. Pinotti, A. Gómez-Zavaglia (Argentina)

- 577 Gastroprotective bio-guiding fractionation of hydro-alcoholic extracts from green- and black-teas (*Camellia sinensis*)
C.T. Scoparo, D.G. Borato, L.M. Souza, N. Dartora, L.M. Silva, D. Maria-Ferreira, G.L. Sasaki, P.A.J. Gorin, C.H. Baggio, M. Iacomini (Brazil)
- 587 Flour quality and disproportionation of bubbles in bread doughs
S. Chakrabarti-Bell, S. Wang, K.H.M. Siddique (Australia)
- 598 Functional properties and Angiotensin-I converting enzyme inhibitory activity of soy-whey proteins and fractions
T.A. Lassissi, N.S. Hettiarachchy, S.J. Rayaprolu, A. Kannan, M. Davis (USA)
- 603 Comparative *in vitro* intestinal digestion of 1,3-diglyceride and 1-monoglyceride rich oils and their mixtures
D. Martin, M.I. Moran-Valero, L. Vázquez, G. Reglero, C.F. Torres (Spain)
- 610 Determination of volatile thiols in roasted coffee by derivatization and liquid chromatography-high resolution mass spectrometric analysis
S. Vichi, Y. Jerí, N. Cortés-Francisco, O. Palacios, J. Caixach (Spain)
- 618 The Amazonian fruit *Byrrhoma crassifolia* effectively scavenges reactive oxygen and nitrogen species and protects human erythrocytes against oxidative damage
L.R.B. Mariutti, E. Rodrigues, R.C. Chisté, E. Fernandes, A.Z. Mercadante (Brazil, Portugal)
- 626 Development of interspecific competition models for the growth of *Listeria monocytogenes* and *Lactobacillus* on vacuum-packaged chilled pork by quantitative real-time PCR
K. Ye, H. Wang, Y. Jiang, X. Xu, J. Cao, G. Zhou (P.R. China)
- 634 Steady, dynamic and creep rheological analysis as a novel approach to detect honey adulteration by fructose and saccharose syrups: Correlations with HPLC-RID results
M.T. Yilmaz, N.B. Tatlisu, O.S. Toker, S. Karaman, E. Dertli, O. Sagdic, M. Arici (Turkey)
- 647 Non-destructive evaluation of quality and ammonia content in whole and fresh-cut lettuce by computer vision system
B. Pace, M. Cefola, P. Da Pelo, F. Renna, G. Attolico (Italy)
- 656 The sub-species characterization and antimicrobial resistance of *Listeria monocytogenes* isolated from domestic and imported food products from 2004 to 2011
D. Bae, E.H. Mezal, R.D. Smiley, C.-M. Cheng, A.A. Khan (United States, Iraq)
- 664 Reduced calorie emulsion-based foods: Protein microparticles and dietary fiber as fat replacers
C. Chung, B. Degner, D.J. McClements (USA, Saudi Arabia)
- 677 Effects of malting on molecular weight distribution and content of water-extractable β-glucans in barley
O. Marconi, I. Tomasi, L. Dionisio, G. Perretti, P. Fantozzi (Italy)
- 683 Effect of the substrate's microstructure on the growth of *Listeria monocytogenes*
Z. Aspridou, T. Moschakis, C.G. Biliaderis, K.P. Koutsoumanis (Greece)
- 692 Inter-individual retronasal aroma release variability during cheese consumption: Role of food oral processing
H. Labouré, M. Repoux, P. Courcoux, G. Feron, E. Guichard (France)
- 701 Attentional capture and importance of package attributes for consumers' perceived similarities and differences among products: A case study with breakfast cereal packages
P. Varela, L. Antúnez, R. Silva Cadena, A. Giménez, G. Ares (Norway, Uruguay)
- 711 High shear mixer granulation using food grade binders with different thickening power
E. Franceschinis, A.C. Santomaso, A. Trotter, N. Realdon (Italy)
- 718 Fast method for capsaicinoids analysis from *Capsicum chinense* fruits
M. Sganzerla, J.P. Coutinho, A.M.T. de Melo, H.T. Godoy (Brazil)
- 726 Influence of lactic acid and acetic acid on *Salmonella* spp. growth and expression of acid tolerance-related genes
R.C.K. Burin, A. Silva Jr., L.A. Nero (Brazil)
- 733 Proteomic insight into the effect of ethanol on citrinin biosynthesis pathway in *Monascus purpureus* NTU 568
Y.-Y. Tan, W.-H. Hsu, T.-W. Shih, C.-H. Lin, T.-M. Pan (Taiwan)

- 743** Shear structuring as a new method to make anisotropic structures from soy–gluten blends
K.J. Grabowska, S. Tekidou, R.M. Boom, A.-J. van der Goot (The Netherlands)
- 752** The effects of strawberry, black currant, and chokeberry extracts in a grain dietary fiber matrix on intestinal fermentation in rats
M. Kosmala, Z. Zduńczyk, E. Karlińska, J. Juśkiewicz (Poland)
- 762** Polyphenolic compounds and anthocyanin content of *Prosopis nigra* and *Prosopis alba* pods flour and their antioxidant and anti-inflammatory capacities
M.J. Pérez, A.S. Cuello, I.C. Zampini, R.M. Ordoñez, M.R. Alberto, C. Quispe, G. Schmeda-Hirschmann, M.I. Isla (Argentina, Chile)
- 772** Predicting the quality of wheat flour dough at mixing using an expert system
K. Kansou, H. Chiron, G. Della Valle, A. Ndiaye, P. Roussel (France)
- 783** HPLC-MSⁿ identification and quantification of phenolic compounds in hazelnut kernels, oil and bagasse pellets
A. Slatnar, M. Mikulic-Petkovsek, F. Stampar, R. Veberic, A. Solar (Slovenia)
- 790** Improving the application of SSR polymorphism analysis coupled with Lab-on-a-chip® capillary electrophoresis to assess food authenticity: Italian pigmented rice as case study
C. Garino, M. Rinaldi, A. de Paolis, F. Travaglia, J.D. Coïsson, M. Arlorio (Italy)
- 799** Impact of germination and enzymatic hydrolysis of cowpea bean (*Vigna unguiculata*) on the generation of peptides capable of inhibiting dipeptidyl peptidase IV
T. de Souza Rocha, L.M.R. Hernandez, Y.K. Chang, E.G. de Mejía (Brazil, USA)
- 810** Elucidation of immediate type I reactions in native and GM mustard (*Brassica* spp.)
A. Sharma, S. Kumar, R.K. Gupta, R. Roy, K. Gupta, A.K. Verma, B.P. Chaudhari, M. Das, P.D. Dwivedi (India)
- 822** *Lactobacillus casei* immobilized onto montmorillonite: Survivability in simulated gastrointestinal conditions, refrigeration and yogurt
S. Li, C. Jiang, X. Chen, H. Wang, J. Lin (China)
- 831** Lycopene and β-carotene transfer to oil and micellar phases during in vitro digestion of tomato and red carrot based-fractions
P. Palmero, A. Panozzo, D. Simatupang, M. Hendrickx, A. Van Loey (Belgium)
- 839** Reversion to a control balanced diet is able to restore body weight and to recover altered metabolic parameters in adult rats long-term fed on a cafeteria diet
B. Reynés, E. García-Ruiz, R. Díaz-Rúa, A. Palou, P. Oliver (Spain)
- 855** Improvement of antioxidant activity of egg white protein by phosphorylation and conjugation of epigallocatechin gallate
C. Yin, L. Yang, H. Zhao, C.-P. Li (PR China)
- 864** Influence of cultivar and origin on the flavonol profile of fruits and cladodes from cactus *Opuntia ficus-indica*
T.E. Moussa-Ayoub, E.-S.A. Abd El-Hady, H.T. Omran, S.K. El-Samahy, L.W. Kroh, S. Rohn (Germany, Egypt)
- 873** Identification of phenolic compounds by HPLC-ESI-MS/MS and antioxidant activity from Chilean propolis
C. Castro, F. Mura, G. Valenzuela, C. Figueroa, R. Salinas, M.C. Zuñiga, J.L. Torres, E. Fuguet, C. Delporte (Chile, Spain)
- 880** Effects of hemicellulose-derived saccharides on behavior of *Lactobacilli* under simulated gastrointestinal conditions
P. Gullón, B. Gullón, A. Cardelle-Cobas, J.L. Alonso, M. Pintado, A.M. Gomes (Portugal, Spain)
- 889** Rheological behaviour of selected commercially available baby formulas in simulated human digestive system
S. Prakash, Q. Ma, B. Bhandari (Australia)
- 901** Analysis of nonpolar lipophilic aldehydes/ketones in oxidized edible oils using HPLC-QqQ-MS for the evaluation of their parent fatty acids
J. Cao, X.-G. Zou, L. Deng, Y.-W. Fan, H. Li, J. Li, Z.-Y. Deng (China)

(Continued from previous page)

- 908** Impact of different cocoa hybrids (*Theobroma cacao* L.) and *S. cerevisiae* UFLA CA11 inoculation on microbial communities and volatile compounds of cocoa fermentation
C.L. Ramos, D.R. Dias, M.G.d.C.P. Miguel, R.F. Schwan (Brazil)
- 919** Stability of a concentrated oil-in-water emulsion model prepared using palm olein-based diacylglycerol/virgin coconut oil blends: Effects of the rheological properties, droplet size distribution and microstructure
S.P. Ng, O.M. Lai, F. Abas, H.K. Lim, C.P. Tan (Malaysia)
- 931** Isolation and identification of a novel anticoagulant peptide from enzymatic hydrolysates of scorpion (*Buthus martensii* Karsch) protein
Y. Ren, H. Wu, F. Lai, M. Yang, X. Li, Y. Tang (China)
- 939** Bioavailability of cranberry bean hydroalcoholic extract and its inhibitory effect against starch hydrolysis following in vitro gastrointestinal digestion
Y.C. Chiang, C.L. Chen, T.L. Jeng, T.C. Lin, J.M. Sung (Taiwan)
- 946** Comparing the crystallization and rheological behavior of organogels developed by pure and commercial monoglycerides in vegetable oil
A. López-Martínez, J.A. Morales-Rueda, E. Dibildox-Alvarado, M.A. Charó-Alonso, A.G. Marangoni, J.F. Toro-Vazquez (México, Canada)

Short Communications

- 166** Potential of volatile compounds produced by fungi to influence sensory quality of coffee beverage
B.T. Iamanaka, A.A. Teixeira, A.R.R. Teixeira, E. Vicente, J.C. Frisvad, M.H. Taniwaki, N. Bragagnolo (Brazil, Denmark)
- 234** Decontamination efficacy of neutral electrolyzed water to eliminate indigenous flora on a large-scale of cabbage and carrot both in the laboratory and on a real processing line
N.Y. Lee, N.H. Kim, I.S. Jang, S.H. Jang, S.H. Lee, I.G. Hwang, M.S. Rhee (Republic of Korea)
- 420** Quality and safety of frying oils used in restaurants
A. Sebastian, S.M. Ghazani, A.G. Marangoni (Canada)
- 849** Survival of hepatitis A virus on various food-contact surfaces during 28 days of storage at room temperature
S.-C. Bae, S.Y. Park, A.-N. Kim, M.-H. Oh, S.-D. Ha (Republic of Korea)
- 896** Acquired acid adaptation of *Listeria monocytogenes* during its planktonic growth enhances subsequent survival of its sessile population to disinfection with natural organic compounds
E. Giaouris, N. Chorianopoulos, G.-J. Nychas (Greece)
- 958** Fourier transform ion cyclotron resonance mass spectrometrical analysis of raw fermented cocoa beans of Cameroon and Ivory Coast origin
B.P. Milev, M.A. Patras, T. Dittmar, G. Vrancken, N. Kuhnert (Germany, Switzerland)
- 962** Mathematical modeling of area under the curve assessment criteria to quantify the antioxidant and pro-oxidant capacity: Coffee extracts as a case study
M.A. Prieto, J.A. Vázquez, M.A. Murado (Spain)
- 976** State of the art on the initiatives and activities relevant to risk assessment and risk management of nanotechnologies in the food and agriculture sectors
M.T. Takeuchi, M. Kojima, M. Luetzow (Italy, Switzerland)
- 982** Corrigendum to "Excess copper induced oxidative stress and response of antioxidants in rice"
T.C. Thounaojam, P. Panda, P. Mazumdar, D. Kumar, G.D. Sharma, L. Sahoo, S.K. Panda (India)