

# FOOD CONTROL

## CONTENTS

Volume 42 August 2014

- 1 Risk of infection with *Salmonella* and *Listeria monocytogenes* due to consumption of ready-to-eat leafy vegetables in Brazil  
A.S. SANT'ANA (Brazil, USA), B.D.G.M. FRANCO (Brazil) & D.W. SCHAFFNER (USA)
- 9 Determination of thiamethoxam, triadimenol and deltamethrin in pineapple using SLE-LTP extraction and gas chromatography  
E.H.C. MORAIS, A.A.Z. RODRIGUES, M.E.L.R. QUEIROZ, A.A. NEVES & P.H.D. MORAIS (Brazil)
- 18 Non-destructive determination of the total bacteria in flounder fillet by portable near infrared spectrometer  
C. DUAN, C. CHEN (PR China), M.N. KHAN (PR China, Pakistan), Y. LIU, R. ZHANG, H. LIN & L. CAO (PR China)
- 23 Antibacterial mechanism of *Myagropsis myagroides* extract on *Listeria monocytogenes*  
S.-Y. LEE, K.-B.-W.-R. KIM, S.-I. LIM & D.-H. AHN (Republic of Korea)
- 29 Limited microbial growth in Atlantic salmon packed in a modified atmosphere  
D. MILNE & S.M. POWELL (Australia)
- 34 Occurrence of aflatoxins in cashew nuts produced in northeastern Brazil  
M.A.L. MILHOME, C.G. LIMA, L.K. DE LIMA, F.A.F. LIMA, D.O.B. SOUSA & R.F. NASCIMENTO (Brazil)
- 38 Balsamic vinegar from Modena: An easy and effective approach to reduce *Listeria monocytogenes* from lettuce  
B. RAMOS, T.R.S. BRANDÃO, P. TEIXEIRA & C.L.M. SILVA (Portugal)
- 43 The prevalence and serovar diversity of *Salmonella* in various food products in Estonia  
T. KRAMARENKO, I. NURMOJA, A. KÄRSSIN, K. MEREMÄE (Estonia), A. HÖRMAN (Finland) & M. ROASTO (Estonia)
- 48 Purification and characterization of bacteriocin F1, a novel bacteriocin produced by *Lactobacillus paracasei* subsp. *tolerans* FX-6 from Tibetan kefir, a traditional fermented milk from Tibet, China  
J. MIAO, H. GUO, Y. OU, G. LIU, X. FANG, Z. LIAO, C. KE, Y. CHEN, L. ZHAO & Y. CAO (People's Republic of China)
- 54 Knowledge on food hygiene of food service staff working in nursing homes and kindergartens in Porto region – Portugal  
R.B. MARTINS, D. FERREIRA, L.M. MOREIRA, T. HOGG (Portugal) & J. GESTAL (Spain)
- 63 Growth of *Staphylococcus aureus* and enterotoxin production in pre-cooked tuna meat  
X. WU & Y.-C. SU (USA)
- 71 One-year investigation of *Clostridium* spp. occurrence in raw milk and curd of Grana Padano cheese by the automated ribosomal intergenic spacer analysis  
M. FELIGINI, E. BRAMBATI, S. PANELLI, M. GHITTI, R. SACCHI, E. CAPELLI & C. BONACINA (Italy)
- 78 Identification of aflatoxin B<sub>1</sub> on maize kernel surfaces using hyperspectral imaging  
W. WANG (China), G.W. HEITSCHMIDT, X. NI, W.R. WINDHAM, S. HAWKINS (USA) & X. CHU (China)
- 87 Rapid and simultaneous detection of *Salmonella*, *Shigella*, and *Staphylococcus aureus* in fresh pork using a multiplex real-time PCR assay based on immunomagnetic separation  
K. MA, Y. DENG, Y. BAI, D. XU, E. CHEN, H. WU, B. LI & L. GAO (China)

(Contents continued on next page)

- 94 Surface conditioning of stainless steel coupons with skim milk, buttermilk, and butter serum solutions and its effect on bacterial adherence  
N.M. DAT, L.D. MANH (Viet Nam), D. HAMANAKA, D.V. HUNG, F. TANAKA & T. UCHINO (Japan)
- 101 Detection of  $\alpha_{s1}$ -I casein in mozzarella Fiordilatte: A possible tool to reveal the use of stored curd in cheesemaking  
M. FACCIA, A. TRANI, P. LOIZZO, R. GAGLIARDI, B. LA GATTA & A. DI LUCCIA (Italy)
- 109 Development of an aptasensor for electrochemical detection of tetracycline  
D. CHEN, D. YAO, C. XIE & D. LIU (China)
- 116 A newly discovered bacteriocin from *Weissella hellenica* D1501 associated with Chinese Dong fermented meat (Nanx Wudl)  
C. CHEN, X. CHEN, M. JIANG, X. RUI, W. LI & M. DONG (PR China)
- 125 Polyphenolic extract from *Rosa rugosa* tea inhibits bacterial quorum sensing and biofilm formation  
J. ZHANG, X. RUI, L. WANG, Y. GUAN (People's Republic of China), X. SUN (USA) & M. DONG (People's Republic of China)
- 132 Minimum free chlorine residual level required for the inactivation of *Escherichia coli* O157:H7 and trihalomethane generation during dynamic washing of fresh-cut spinach  
V.M. GÓMEZ-LÓPEZ (Spain), A.-S. LANNOO (Belgium), M.I. GIL & A. ALLENDE (Spain)
- 139 Ochratoxin A levels in Greek retail wines  
Y. SARIGIANNIS, J. KAPOLOS, A. KOLIADIMA, T. TSEGENIDIS & G. KARAIKAKIS (Greece)
- 144 Food safety awareness, knowledge and practices among students in Slovenia  
A. OVCA, M. JEVŠNIK & P. RASPOR (Slovenia)
- 152 Microbiological contamination linked to implementation of good agricultural practices in the production of organic lettuce in Southern Brazil  
R. DE QUADROS RODRIGUES, M.R. LOIKO, C. MINÉIA DANIEL DE PAULA, C.T. HESSEL (Brazil), L. JACXSENS, M. UYTENDAELE (Belgium), R.J. BENDER & E.C. TONDO (Brazil)
- 165 Histamine content and histamine-forming bacteria in mahi-mahi (*Coryphaena hippurus*) filets and dried products  
C.-S. LIN, H.-C. TSAI, C.-M. LIN, C.-Y. HUANG, H.-F. KUNG & Y.-H. TSAI (ROC)
- 172 Hygienic food handling intention. An application of the Theory of Planned Behavior in the Chinese cultural context  
L. BAI, J. TANG, Y. YANG & S. GONG (PR China)
- 181 Reduction of biogenic amines and aflatoxins in *Doenjang* samples fermented with various *Meju* as starter cultures  
S. SHUKLA, H.-K. PARK, J.-S. LEE, J.-K. KIM & M. KIM (Republic of Korea)
- 188 Consumption of raw or heated milk from different species: An evaluation of the nutritional and potential health benefits  
W.L. CLAEYS, C. VERRAES, S. CARDOEN, J. DE BLOCK, A. HUYGHEBAERT, K. RAES, K. DEWETTINCK & L. HERMAN (Belgium)
- 202 Potent bactericidal effects of bicarinalin against strains of the *Enterobacter* and *Cronobacter* genera  
N. TÉNÉ, V. ROCHE-CHATAIN, A. RIFFLET, E. BONNAFÉ, B. LEFRANC, J. LEPRINCE & M. TREILHOU (France)
- 207 Determination of the shelf life of cluster of the red king crab (*Paralithodes camtschaticus*) during chilled storage  
G. LORENTZEN, A.V. SKULAND, I. SONE, J.-O. JOHANSEN & B.T. ROTABAKK (Norway)
- 214 Knowledge of food safety and hygiene and personal hygiene practices among meat handlers operating in western Romania  
C. JIANU & I. GOLETȚ (Romania)
- 220 A rapid detection method for microbial spoilage of agro-products based on catalase activity  
S.-B. ZHANG, H.-C. ZHAI, Y.-S. HU, L. WANG, G.-H. YU, S.-X. HUANG & J.-P. CAI (China)
- 225 Laser-based imaging system for non-invasive monitoring of quality changes of papaya during drying  
P. UDOMKUN, M. NAGLE (Germany), B. MAHAYOTHEE (Thailand) & J. MÜLLER (Germany)
- 234 Risk assessment of beauvericin, enniatins and fusaproliferin present in follow-up infant formula by *in vitro* evaluation of the duodenal and colonic bioaccessibility  
A.B. SERRANO, G. MECA, G. FONT & E. FERRER (Spain)
- 242 Microbial ecology of meat slicers as determined by denaturing gradient gel electrophoresis  
A.W. MERTZ, O.K. KOO, C.A. O'BRYAN, R. MORAWICKI, S.A. SIRSAT, J.A. NEAL, P.G. CRANDALL & S.C. RICKE (USA)
- 248 Modelling the interaction of storage temperature, pH, and water activity on the growth behaviour of *Listeria monocytogenes* in raw and pasteurised semi-soft rind washed milk cheese during storage following ripening  
U. TIWARI, D. WALSH, L. RIVAS, K. JORDAN & G. DUFFY (Ireland)
- 257 Levels of microbial contamination of domestic refrigerators in Italy  
P. CATELLANI, R. MIOTTI SCAPIN, L. ALBERGHINI, I.L. RADU & V. GIACCONE (Italy)
- 263 Specific inhibition of cytotoxicity of Shiga-like toxin 1 of enterohemorrhagic *Escherichia coli* by gallic acid gallate and epigallocatechin gallate  
T. MIYAMOTO, S. TOYOFUKU, N. TACHIKI, E. KIMURA, T. ZHOU, T. OZAWA, M. NAKAYAMA, N. SHIGEMUNE, K. SHIMATANI, H. TOKUDA & K.-I. HONJOH (Japan)
- 270 Comparison of the efficacy of various sanitizers and hot water treatment in inactivating inoculated foodborne pathogens and natural microflora on mung bean sprouts  
L.K. PHUA, S.Y. NEO, G.H. KHOO (Singapore) & H.-G. YUK (Singapore, China)
- 277 The effect of Quaternary Ammonium Compounds on the attachment of wild and adapted *Pseudomonas putida* strains to different contact materials used in the food sector  
Z.E. MOUSAVI, E. KENNEDY, S. FANNING, J.H. RICE & F. BUTLER (Ireland)
- 284 Foreign-body detection in dry food using continuous sub-terahertz wave imaging  
G. OK, H.J. KIM, H.S. CHUN & S.-W. CHOI (South Korea)
- 290 Effects of high pressure processing on immunoreactivity and microbiological safety of crushed peanuts  
H.-W. HUANG, B.B. YANG & C.-Y. WANG (Taiwan)

- 296 Evaluation of two antimicrobial packaging films against *Escherichia coli* O157:H7 strains *in vitro* and during storage of a Spanish ripened sheep cheese (Zamorano)  
V. OTERO, R. BECERRIL, J.A. SANTOS, J.M. RODRÍGUEZ-CALLEJA, C. NERÍN & M.-L. GARCÍA-LÓPEZ (Spain)
- 303 Binary combinations of BHA and other natural and synthetic phenolics: Antimicrobial activity against *Staphylococcus aureus* and antioxidant capacity  
L. FERNÁNDEZ-ÁLVAREZ, P. DEL VALLE, D. DE ARRIAGA, M.R. GARCÍA-ARMESTO & J. RÚA (Spain)
- 310 ZnO nanoparticle suspensions containing citric acid as antimicrobial to control *Listeria monocytogenes*, *Escherichia coli*, *Staphylococcus aureus* and *Bacillus cereus* in mango juice  
F.B. FIROUZABADI, M. NOORI, Y. EDALATPANAH & M. MIRHOSSEINI (Iran)
- 315 Evaluation of *Lactobacillus casei* ATCC 393 protective effect against spoilage of probiotic dry-fermented sausages  
M. SIDIRA, A. GALANIS, A. NIKOLAOU, M. KANELLAKI & Y. KOURKOUTAS (Greece)
- 321 Ethylenethiourea in fruits: Optimization and in-house validation of a method by liquid chromatography tandem mass spectrometry, occurrence and dietary exposure assessment  
V.R.R. LEMES, H.A. MARTINS-JÚNIOR, S.V.C. DE SOUZA & S. COLACIOPPO (Brazil)
- 329 Buffering effect of chicken skin and meat protects *Salmonella enterica* strains against hydrochloric acid but not organic acid treatment  
S.M. TAN, S.M. LEE & G.A. DYKES (Malaysia)
- 335 Reducing the atypical odour of *dawadawa*: Effect of modification of fermentation conditions and post-fermentation treatment on the development of the atypical odour of *dawadawa*  
W.K. AMOA-AWUA, B. AWUSI, M. OWUSU, V. APPIAH, H. OFORI (Ghana), L. THORSEN & L. JESPERSEN (Denmark)
- 343 Detection of *Listeria* in milk using non-targeted metabolic profiling of *Listeria monocytogenes*: A proof-of-concept application  
D.J. BEALE, P.D. MORRISON & E.A. PALOMBO (Australia)