

# Journal of the Science of Food and Agriculture

View online at [wileyonlinelibrary.com/journal/jsfa](http://wileyonlinelibrary.com/journal/jsfa)





## Review

- Halophilic hydrolases as a new tool for the biotechnological industries** 2575  
M Delgado-García, B Valdivia-Urdiales, CN Aguilar-González, JC Contreras-Esquivel and R Rodríguez-Herrera (Mexico)

## Research Articles

- Texture improvement of fresh and frozen mangoes with pectin methylesterase and calcium infusion** 2581  
A Sirijariyawat, S Charoenrein (Thailand) and DM Barrett (USA)
- Proximate and fatty acid composition and cholesterol content of different cuts of guinea fowl meat as affected by cooking method** 2587  
LC Hoffman and TM Tihong (South Africa)
- Physical barriers to carotenoid bioaccessibility. Ultrastructure survey of chromoplast and cell wall morphology in nine carotenoid-containing fruits and vegetables** 2594  
J Jeffery, A Holzenburg and S King (USA)
- Carotenoid bioaccessibility from nine raw carotenoid-storing fruits and vegetables using an *in vitro* model** 2603  
JL Jeffery, ND Turner and SR King (USA)
- Assessment of plant biomass and nitrogen nutrition with plant height in early- to mid-season corn** 2611  
X Yin, RM Hayes, MA McClure and HJ Savoy (USA)
- Influence of the presence of monoglyceride on the interfacial properties of soy protein isolate** 2618  
ML López-Castejón, J de la Fuente, M Ruiz and A Guerrero (Spain)
- The effect of delay between heat treatment and cold storage on alleviation of chilling injury in banana fruit** 2624  
H Wang, Z Zhang, L Xu, X Huang and X Pang (China)
- Differentiation of raw spirits of rye, corn and potato using chromatographic profiles of volatile compounds** 2630  
A Ziółkowska and HH Jeleń (Poland)
- Long-term high animal protein diet reduces body weight gain and insulin secretion in diet-induced obese rats** 2638  
H Chen, Y Wang, L Ma, J Zhao, Y Li and M Li (China)
- Anti-obesity role of adzuki bean extract containing polyphenols: *in vivo* and *in vitro* effects** 2644  
T Kitano-Okada, A Ito, A Koide, Y Nakamura, K-H Han, K Shimada, K Sasaki, K Ohba, S Sibayama and M Fukushima (Japan)
- Design of multiplex PCR for simultaneous detection of rope-forming *Bacillus* strains in Iranian bread dough** 2652  
A Sadeghi, SA Mortazavi, AR Bahrami and B Sadeghi (Iran)
- Characteristics of a phage effective for colibacillosis control in poultry** 2657  
GL Lau, CC Sieo, WS Tan and YW Ho (Malaysia)



Contents continued

- Determination of amatoxins in different tissues and development stages of *Amanita exitialis*** 2664  
J Hu, P Zhang, J Zeng and Z Chen (China)
- In vitro* and *in vivo* antifungal activity of a water-dilutable cassia oil microemulsion against *Geotrichum citri-aurantii*** 2668  
S-X Xu, Y-C Li, X Liu, L-J Mao, H Zhang and X-D Zheng (China)
- Effects of seeding rate, nitrogen rate and cultivar on barley malt quality** 2672  
MJ Edney, JT O'Donovan, TK Turkington, GW Clayton, R McKenzie, P Juskiw, GP Lafond, S Brandt, CA Grant, KN Harker, E Johnson and W May (Canada)
-  **Chromatographic separation of clenbuterol by bonded phases bearing nano-baskets of *p*-tert-calix[4]-1,2-crown-3, -crown-4, -crown-5 and -crown-6** 2679  
B Mokhtari and K Pourabdollah (Iran)
- Micro-encapsulation of refined olive oil: influence of capsule wall components and the addition of antioxidant additives on the shelf life and chemical alteration** 2689  
P Calvo, ÁL Castaño, M Lozano and D González-Gómez (Spain)
- Development of an on-line molecularly imprinted chemiluminescence sensor for determination of trace olaquinox in chick feeds** 2696  
Z Xu, J Song, L Li, X Qiao and H Chen (China)
- Discrimination of the *Lactobacillus acidophilus* group using sequencing, species-specific PCR and SNaPshot mini-sequencing technology based on the *recA* gene** 2703  
C-H Huang, M-T Chang, M-C Huang, L-T Wang, L Huang and F-L Lee (Taiwan)
- Digital image analysis of diverse Mexican rice cultivars** 2709  
GA Camelo-Méndez (Colombia, Mexico), BH Camacho-Díaz, AA del Villar-Martínez, ML Arenas-Ocampo, LA Bello-Pérez and AR Jiménez-Aparicio (Mexico)
- Effect of thermal sterilization on ferulic, coumaric and cinnamic acids: dimerization and antioxidant activity** 2715  
D Arrieta-Baez, L Dorantes-Álvarez, R Martínez-Torres, G Zepeda-Vallejo, ME Jaramillo-Flores, A Ortiz-Moreno and G Aparicio-Ozores (Mexico)
- Chemical composition, nutritional and toxicological evaluation of rice (*Oryza sativa*) grown in fly ash amended soils** 2721  
K Bhaskarachary, P Ramulu, P Udayasekhararao, S Bapurao, K Kamala, Q Syed, P Udaykumar and B Sesikeran (India)
- Identification of biomarkers of meat tenderisation and its use for early classification of Asturian beef into fast and late tenderising meat** 2727  
V Sierra, V Fernández-Suárez, P Castro, K Osoro, I Vega-Naredo, M García-Macía, P Rodríguez-Colunga, A Coto-Montes and M Oliván (Spain)
- Enhancing the polyphenol content of a red-fleshed Japanese plum (*Prunus salicina* Lindl.) nectar by incorporating a polyphenol-rich extract from the skins** 2741  
D de Beer, N Steyn, E Joubert and N Muller (South Africa)