Perspective

| Postharvest technology for developing countries: challenges and opportunities in research, outreach and | |
|---|-----|
| advocacy | 597 |
| L Kitinoja (USA), S Saran, SK Roy (India) and AA Kader (USA) | |

Research Articles

| Antioxidant activity of hard wheat flour, dough and bread prepared using various processes with the addition of different phenolic acids H-M Han and B-K Koh (Korea) | 604 |
|---|-----|
| Ripening of salted anchovy (<i>Engraulis anchoita</i>): development of lipid oxidation, colour and other sensorial characteristics M Czerner, MC Tomás and MI Yeannes (Argentina) | 609 |
| Starch granule-associated proteins of hull-less barley (<i>Hordeum vulgare</i> L.) from the Qinghai-Tibet Plateau in China C-P Wang, Z-F Pan, Z-X Nima, Y-W Tang, P Cai, J-J Liang, G-B Deng, H Long and M-Q Yu (China) | 616 |
| Wheat gluten-based materials plasticised with glycerol and water by thermoplastic mixing and thermomoulding LS Zárate-Ramírez, I Martínez, A Romero, P Partal and A Guerrero (Spain) | 625 |
| Effect of irradiation, active and modified atmosphere packaging, container oxygen barrier and storage conditions on the physicochemical and sensory properties of raw unpeeled almond kernels (<i>Prunus dulcis</i>) SF Mexis, KA Riganakos and MG Kontominas (Greece) | 634 |
| Expression of genes associated with ethylene-signalling pathway in harvested banana fruit in response to temperature and 1-MCP treatment S-c Yan, J-y Chen, W-m Yu, J-f Kuang, W-x Chen, X-p Li and W-j Lu (China) | 650 |
| Higher bioavailability of isoflavones after a single ingestion of aglycone-rich fermented soybeans compared with glucoside-rich non-fermented soybeans in Japanese postmenopausal women Y Okabe, T Shimazu and H Tanimoto (Japan) | 658 |
| Preharvest bagging with wavelength-selective materials enhances development and quality of mango (<i>Mangifera indica</i> L.) cv. Nam Dok Mai #4 V Chonhenchob, D Kamhangwong, J Kruenate, K Khongrat, N Tangchantra, U Wichai (Thailand) and SP Singh (USA) | 664 |

| Sensorically and antimicrobially active metabolite production of <i>Lactobacillus</i> strains on Jerusalem artichoke juice | 672 |
|---|-----|
| Z Zalán (Hungary), J Hudáček (Czech Republic), M Tóth-Markus (Hungary), E Husová, K Solichová (Czech Republic), F Hegyi (Hungary), M Plocková, J Chumchalová (Czech Republic) and A Halász (Hungary) | 3,2 |
| Effects of water-saving superabsorbent polymer on antioxidant enzyme activities and lipid peroxidation in oat (<i>Avena sativa L.</i>) under drought stress MR Islam (China, Bangladesh), X Xue, S Mao, C Ren (China), AE Eneji (Nigeria) and Y Hu (China) | 680 |
| Effects of rice dreg protein and its hydrolysate on growth performance and small intestine morphology of early-weaned rats X Li, H Xiong, K Yang, D Peng, W Li, Y Yin and J Liu (China) | 687 |
| Schisandrin enhances dendrite outgrowth and synaptogenesis in primary cultured hippocampal neurons S-H Yang, C-J Jeng, C-H Chen, Y Chen, Y-C Chen and S-M Wang (Taiwan) | 694 |
| Volatile compounds and antimicrobial and antioxidant activities of the essential oils of the needles of <i>Pinus densiflora</i> and <i>Pinus thunbergii</i> J-S Park and G-H Lee (Korea) | 703 |
| Contribution of sulfur-containing compounds to the colour-inhibiting effect and improved antioxidant activity of Maillard reaction products of soybean protein hydrolysates M Huang, P Liu, S Song, X Zhang (China), K Hayat (Pakistan), S Xia, C Jia and F Gu (China) | 710 |
| Effect of free or protein-associated soy isoflavones on the antioxidant status in rats ACL Barbosa, FM Lajolo and MI Genovese (Brazil) | 721 |
| Structural and thermal characterization of galactomannans from genus <i>Gleditsia</i> seeds as potential food gum substitutes J-x Jiang, H-I Jian (China), C Cristhian (Sweden), W-m Zhang and R-c Sun (China) | 732 |
| Comparative evaluation of oxidative enzyme activities during adventitious rooting in the cuttings of grapevine rootstocks C Kose, S Erdal, O Kaya and O Atici (Turkey) | 738 |
| Dry matter content and fruit size affect flavour and texture of novel <i>Actinidia deliciosa</i> genotypes S Nardozza, J Gamble, LG Axten, MW Wohlers, MJ Clearwater, J Feng and FR Harker (New Zealand) | 742 |
| Influence of shriveling on berry composition and antioxidant activity of Cabernet Sauvignon grapes from Shanxi vineyards Y Fang, J Meng, A Zhang, J Liu, T Xu, W Yu, S Chen, H Li, Z Zhang and H Wang (China) | 749 |
| Effects of molecular characteristics of on konjac glucomannan glass transitions of potato amylose, amylopection and their mixtures L Guo, Q Liang and X Du (China) | 758 |
| Effects of organic and conventional growth systems on the content of carotenoids in carrot roots, and on intake and plasma status of carotenoids in humans M Søltoft, A Bysted, KH Madsen, AB Mark, SG Bügel, J Nielsen and P Knuthsen (Denmark) | 767 |
| Studies on the antioxygenic activity of bitter gourd (<i>Momordica charantia</i>) and its fractions using various in vitro models A Padmashree GK Sharma AD Semwal and AS Bawa (India) | 776 |