

September 2010 ● Volume 90 ● Issue No 12 ● ISSN 0022-5142 Published online at wileyonlinelibrary.com 10 June–14 July 2010

Science of Food and Agriculture

wileyonlinelibrary.com/jsfa





Journal of the Science of Food and Agriculture

Volume 90 • Issue No 12 • September 2010

Review

Walnut (*Juglans regia* L.): genetic resources, chemistry, by-products

ML Martínez, DO Labuckas, AL Lamarque and DM Maestri (Argentina)

Research Articles

	4
The influence of tuber mineral element composition as a function of geographical location on acrylamide formation in different Italian potato genotypes A Whittaker, I Marotti, G Dinelli, L Calamai, S Romagnoli, M Manzelli, E Palchetti, V Vecchio and S Benedettelli (Italy)	1968
Isolation and characterization of lactic acid bacteria from <i>jiang-sun</i> (fermented bamboo shoots), a traditional fermented food in Taiwan Y-s Chen, H-c Wu, C-h Liu, H-c Chen (Taiwan) and F Yanagida (Japan)	1977
Preventive effects of black tea theaflavins against mouse type IV allergy K Yoshino, K Yamazaki and M Sano (Japan)	1983
Vascular effects of egg white-derived peptides in resistance arteries from rats. Structure – activity relationships AB Garcia-Redondo, FR Roque, M Miguel, R López-Fandiño and M Salaices (Spain)	1988
Ageing and irradiance enhance vitamin E content in green edible tissues from crop plants K Lizarazo, B Fernández-Marín, JM Becerril and JI García-Plazaola (Spain)	1994
Critical moisture content for microbial growth in dried food-processing residues F Rezaei and JS VanderGheynst (USA)	2000
Influence of degree of hydrolysis on functional properties and angiotensin I-converting enzyme-inhibitory activity of protein hydrolysates from cuttlefish (<i>Sepia officinalis</i>) by-products R Balti, A Bougatef, N El-Hadj Ali, D Zekri, A Barkia and M Nasri (Tunisia)	2006
Effects of fermentation by lactic acid bacteria on the antigenicity of bovine whey proteins G Bu, Y Luo, Y Zhang and F Chen (China)	2015
Antioxidant activity and phenolic content of wine vinegars produced by two different techniques H Nilgun Budak and ZB Guzel-Seydim (Turkey)	2021
Nutrient use efficiency and arbuscular mycorrhizal root colonisation of winter wheat cultivars in different farming systems of the DOK long-term trial I Hildermann, M Messmer, D Dubois, T Boller, A Wiemken and P Mäder (Switzerland)	2027

Continued on inside back cover





Effect of nitrogen source in the fertilizing solution on nutritional quality of three members of the <i>Portulaca</i> oleracea aggregate G Szalai (Hungary), N Dai, A Danin, N Dudai and O Barazani (Israel)	2039
Composition and properties of biologically active pectic polysaccharides from leek (<i>Allium porrum</i>) W Kratchanova, M Nikolova, E Pavlova, I Yanakieva and V Kussovski (Bulgaria)	2046
Nuclear magnetic resonance water relaxation time changes in bananas during ripening: a new mechanism FZ Ribeiro, LV Marconcini, IB de Toledo, RB de Vasconcellos Azeredo, LL Barbosa and LA Colnago (Brazil)	2052
Estimation of ruminal and intestinal digestion profiles, hourly effective degradation ratio and potential N to energy synchronization of co-products from bioethanol processing WG Nuez-Ortín and P Yu (Canada)	2058
Effects of roasting and boiling of quinoa, kiwicha and kañiwa on composition and availability of minerals in <i>vitro</i> RAM Repo-Carrasco-Valencia, CR Encina (Perú), MJ Binaghi, CB Greco and PA Ronayne de Ferrer (Argentina)	2068
Fermentation characteristics of corn-, triticale-, and wheat-based dried distillers' grains with solubles in barley-based diets determined using continuous and batch culture systems F Au (Australia), LE McKeown, TA McAllister (Canada) and AV Chaves (Australia, Canada)	2074
A sensitive and specific enzyme-linked immunosorbent assay for the detection of lincomycin in food samples Y Wang, R Wang, J Wang, H Yang, J Song, Y Wang and A Deng (China)	2083
Biodegradation of <i>Jatropha curcas</i> phorbol esters in soil RK Devappa, HPS Makkarand K Becker (Germany)	2090
The effect of different mixing processes on dough extensional rheology and baked attributes A Ktenioudaki, F Butler and E Gallagher (Ireland)	2098
Constitutive differences between steely and mealy barley samples associated with endosperm modification B Ferrari, M Baronchelli, AM Stanca and A Gianinetti (Italy)	2105
Short anaerobiosis period prior to cold storage alleviates bitter pit and superficial scald in Granny Smith apples E Pesis (Israel), SE Ebeler, ST de Freitas, M Padda and EJ Mitcham (USA)	2114
Sensory quality of marama/sorghum composite porridges E Kayitesi (South Africa, Rwanda), KG Duodu, A Minnaar and HL de Kock (South Africa)	2124
The influence of additives and drying methods on quality attributes of fish protein powder made from saithe (<i>Pollachius virens</i>) GR Shaviklo, G Thorkelsson, S Arason (Iceland), HG Kristinsson (Iceland, USA) and K Sveinsdottir (Iceland)	2133
Proanthocyanidin content, antioxidant capacity and scavenger activity of Portuguese sparkling wines (<i>Bairrada</i> Appellation of Origin) AM Jordão, FJ Gonçalves, AC Correia, J Cantão (Portugal), MD Rivero-Pérez and ML González SanJosé (Spain)	2144