

## Food Chemistry Papers Published in Volume 86

Volume 86 Number 1 2004

- 1 Influence of  $\kappa$ -carrageenan on the aggregation behaviour of proteins in heated whey protein isolate solutions  
M.A. DE LA FUENTE, Y. HEMAR, H. SINGH (New Zealand)
- 11 Comparison of wheat flours grown at different locations for their antioxidant properties  
L. YU, S. HALEY, J. PERRET, M. HARRIS (USA)
- 17 Effect of drying method and length of storage on tannin and total phenol concentrations in *Pigeon pea* seeds  
E.C. FERREIRA, A.R.A. NOGUEIRA, G.B. SOUZA, L.A.R. BATISTA (Brazil)
- 25 Antioxidant properties of methanolic extracts from two kinds of *Antrodia camphorata* mycelia  
J.-L. MAU, P.-N. HUANG, S.-J. HUANG, C.-C. CHEN (Taiwan)
- 33 Purification and characterization of an acidic protease from the viscera of bolti fish (*Tilapia nilotica*)  
A.E. EL-BELTAGY, T.A. EL-ADAWY, E.H. RAHMA, A.A. EL-BEDAWEY (Egypt)
- 41 Extracts of cocoa (*Theobroma cacao* L.) leaves and their antioxidation potential  
H. OSMAN, R. NASARUDIN, S.L. LEE (Malaysia)
- 47 Evaluation of the nutritional aspects and cholesterol oxidation products of pork liver and fish patés  
M. ECHARTE, A. CONCHILLO, D. ANSORENA, I. ASTIASARÁN (Spain)
- 55 Comparison of fatty acid composition in some tissues of rainbow trout (*Oncorhynchus mykiss*) living in seawater and freshwater  
H. İBRAHIM HALILOĞLU, A. BAYIR, A. NECDET SIRKECİOĞLU, N. MEVLÜT ARAS, M. ATAMANALP (Turkey)
- 61 The effects of different accelerating techniques on maize wine maturation  
A.C. CHANG (Taiwan)
- 69 Stability of anthocyanin-based aqueous extracts of Andean purple corn and red-fleshed sweet potato compared to synthetic and natural colorants  
B.A. CEVALLOS-CASALS, L. CISNEROS-ZEVALLOS (USA)
- 79 Changes in dry matter, oil content and fatty acids composition of avocado during harvesting time and post-harvesting ripening period  
F. OZDEMİR, A. TOPUZ (Turkey)
- 85 Free amino acids in muscle of Norway lobster (*Nephrops norvegicus* (L.)) in controlled and modified atmospheres during chilled storage  
C. RUIZ-CAPILLAS, A. MORAL (Spain)
- 93 Chemical composition of date pits and reproductive hormonal status of rats fed date pits  
A. ALDHAHERI, G. ALHADRAMI, N. ABOALNAGA, I. WASFI, M. ELRIDI (United Arab Emirates)
- 99 Antioxidant activity of egg-yolk protein hydrolysates in a linoleic acid oxidation system  
S. SAKANAKA, Y. TACHIBANA, N. ISHIHARA, L. RAJ JUNEJA (Japan)
- 105 Effects of freezing and storing of frozen products on the content of nitrates, nitrites, and oxalates in dill (*Anethum graveolens* L.)  
W. KMIECIK, Z. LISIEWSKA, J. ŚLUPSKI (Poland)
- 113 Optical purity of (R)-(-)-1-octen-3-ol in the aroma of various species of edible mushrooms  
R. ZAWIRSKA-WOJTASIAK (Poland)
- 119 The effect of harvest dates on the starch properties of various potato cultivars  
T. NODA, S. TSUDA, M. MORI, S. TAKIGAWA, C. MATSUURA-ENDO, K. SAITO, W.H. ARACHICHIGE MANGALIKA, A. HANAOKA, Y. SUZUKI, H. YAMAUCHI (Japan)
- 127 Evaluation of volatiles from ripening papaya (*Carica papaya* L., var. Maradol roja)  
K. ALMORA, J.A. PINO, M. HERNÁNDEZ, C. DUARTE, J. GONZÁLEZ, E. RONCAL (Cuba)
- ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION**
- 131 Study on sugar profile of rice during ageing by capillary electrophoresis with electrochemical detection  
Y. CAO, Y. WANG, X. CHEN, J. YE (China)

- 137 Radioisotopic determination of L-carnitine content in foods commonly eaten in Western countries  
J. DEMARQUOY, B. GEORGES, C. RIGAULT, M.-C. ROYER, A. CLAIRET, M. SOTY, S. LEKOUNOUNGOU,  
F. LE BORGNE (France)
- 143 Identification of commercial canned tuna species by restriction site analysis of mitochondrial DNA products obtained by nested primer PCR  
M.A. PARDO, B. PÉREZ-VILLAREAL (Spain)
- 151 ANCM Bibliography
- I Calendar

**Volume 86 Number 2 2004**

- 155 Changes in neutral and malonyl ginsenosides in American ginseng (*Panax quinquefolium*) during drying, storage and ethanolic extraction  
X.W. DU, R.B.H. WILLS, D.L. STUART (Australia)
- 161 Viscosity of aqueous solutions of some alkali cyclohexylsulfamates at 25.0 °C  
D. RUDAN-TASIC, C. KLOFUTAR, J. HORVAT (Slovenia)
- 169 Phenolic acids and abscisic acid in Australian *Eucalyptus* honeys and their potential for floral authentication  
L. YAO, Y. JIANG (China), R. SINGANUSONG (Thailand), N. DATTA, K. RAYMONT (Australia)
- 179 Amino acid composition of some Tanzanian wild mushrooms  
S.J.M. MDACHI, M.H.H. NKUNYA, V.A. NYIGO (Tanzania), I.T. URASA (USA)
- 183 Composition and antioxidant activities of the essential oils of *Thymus caespititius*, *Thymus camphoratus* and *Thymus mastichina*  
G. MIGUEL, M. SIMÕES, A.C. FIGUEIREDO, J.G. BARROSO, L.G. PEDRO, L. CARVALHO (Portugal)
- 189 Inulin-enriched pasta: effects on textural properties and starch degradation  
C.S. BRENNAN, V. KURI, C.M. TUDORICA (UK)
- 195 Flavonoid recovery and stability from *Ginkgo biloba* subjected to a simulated digestion process  
L.M.L. GOH, P.J. BARLOW (Singapore)
- 203 Modification of the properties of gelatin from skins of Baltic cod (*Gadus morhua*) with transglutaminase  
I. KOŁODZIEJSKA, K. KACZOROWSKI, B. PIOTROWSKA, M. SADOWSKA (Poland)
- 211 Physicochemical properties and cooking qualities of two varieties of raw and parboiled rice cultivated in the coastal region of Dakshina Kannada, India  
S.J. SUJATHA, R. AHMAD, P. RAMA BHAT (India)
- 217 Iron bioavailability in green leafy vegetables cooked in different utensils  
M. KUMARI, S. GUPTA, A. JYOTHI LAKSHMI, J. PRAKASH (India)
- 223 The changes of β-glucan content and β-glucanase activity in barley before and after malting and their relationships to malt qualities  
J. WANG, G. ZHANG, J. CHEN, F. WU (China)
- 229 Effects of chemical interesterification on physicochemical properties of palm stearin and palm kernel olein blends  
A.R. NORIZZAH, C.L. CHONG, C.S. CHEOW, O. ZALIHA (Malaysia)
- 237 Supercritical fluid extractive fractionation – study of the antioxidant activities of propolis  
B.-J. WANG, Y.-H. LIEN, Z.-R. YU (Taiwan)
- 245 Crystallization properties of palm oil by dry fractionation  
O. ZALIHA, C.L. CHONG, C.S. CHEOW, A.R. NORIZZAH (Malaysia), M.J. KELLENS (Belgium)
- 251 Characterization of animal products according to geographic origin and feeding diet using nuclear magnetic resonance and isotope ratio mass spectrometry. Part II: Beef meat  
J.-P. RENOU, G. BIELICKI, C. DEPONGE, P. GACHON, D. MICOL, P. RITZ (France)
- 257 Use of dairy proteins and microbial transglutaminase to obtain low-salt fish products from filleting waste from silver carp (*Hypophthalmichthys molitrix*)  
R.M. URESTI, S.J. TÉLLEZ-LUIS, J.A. RAMÍREZ, M. VÁZQUEZ (Mexico)
- 263 Caseinomacropeptide and whey protein concentrate enhance *Bifidobacterium lactis* growth in milk  
C. JANER, C. PELÁEZ, T. REQUENA (Spain)

**ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION**

- 269 Solid-phase microextraction – gas chromatography mass spectrometry: A fast and simple screening method for the assessment of organophosphorus pesticides residues in wine and fruit juices  
C.G. ZAMBONIN, M. QUINTO, N. DE VIETRO, F. PALMISANO (Italy)
- 275 Prediction of chemical composition and origin identification of European sea bass (*Dicentrarchus labrax* L.) by near infrared reflectance spectroscopy (NIRS)  
G. XICCATO, A. TROCINO, F. TULLI, E. TIBALDI (Italy)
- 283 Chemometric characterization of Italian wines by thin-film multisensors array and artificial neural networks  
M. PENZA, G. CASSANO (Italy)

- 297 Study of the oxidative stability of salted and unsalted salmon fillets by  $^1\text{H}$  nuclear magnetic resonance  
M.D. GUILLÉN, A. RUIZ (Spain)
- 305 Classification of monofloral honeys based on their quality control data  
J. DEVILLERS, M. MORLOT, M.H. PHAM-DELÈGUE, J.C. DORÉ (France)
- 313 ANCM Bibliography
- I Calendar

**Volume 86 Number 3 2004**

- 317 Effect of nixtamalization on the chemical and functional properties of maize  
S. SEFA-DEDEH, B. CORNELIUS, E. SAKYI-DAWSON, E.O. AFOAKWA (Ghana)
- 325 Fourier transform infrared (FTIR) spectroscopic study of acid soluble collagen and gelatin from skins and bones of young and adult Nile perch (*Lates niloticus*)  
J.H. MUYONGA (Uganda), C.G.B. COLE, K.G. DUODU (South Africa)
- 333 Gelatin-immobilized pectinmethyl esterase for production of low methoxyl pectin  
S.A. DE ASSIS (Brazil), B.S. FERREIRA, P. FERNANDES (Portugal), D.G. GUAGLIANONI (Brazil), J.M.S. CABRAL (Portugal), O.M.M.F. OLIVEIRA (Brazil)
- 339 Determination of phenolic constituents in *citrus* juices: Method of high performance liquid chromatography  
E. BELAJOVÁ, M. SUHAJ (Slovak Republic)
- 345 Functionality of African locust bean (*Parkia biglobosa*) protein isolate: effects of pH, ionic strength and various protein concentrations  
O.S. LAWAL (Nigeria)
- 357 Effect of low temperature on the ascorbic acid content and quality characteristics of frozen strawberry  
M. ALI SAHARI, F. MOHSEN BOOSTANI, E. ZOHREH HAMIDI (Iran)
- 365 Chemical composition and nutritive value of *Pinus pinea* L. seeds  
C. NERGİZ, İ. DÖNMEZ (Turkey)
- 369 Effects of ascorbic acid and ferrous sulfate on trace element extractability by dialyzation of weaning foods  
B. MARTÍNEZ, F. RINCÓN, M.V. IBÁÑEZ (Spain)
- 377 Gas chromatography-olfactometry analysis of beef meat originating from differently fed Belgian Blue, Limousin and Aberdeen Angus bulls  
D. MACHIELS, L. ISTASSE (Belgium), S.M. VAN RUTH (Ireland)
- 385 Effects of curing agents and the stability of a glutaminase from *Debaryomyces* spp.  
M.-A. DURÁ, M. FLORES, F. TOLDRA (Spain)
- 391 Effect of growth phase and dry-cured sausage processing conditions on *Debaryomyces* spp. generation of volatile compounds from branched-chain amino acids  
M.-A. DURÁ, M. FLORES, F. TOLDRA (Spain)
- 401 Influence of gelatin, starch, pectin and artificial saliva on the release of 11 flavour compounds from model gel systems  
A.B. BOLAND, K. BUHR, P. GIANNOLI, S.M. VAN RUTH (Ireland)
- 413 Effect of vineyard yield on the composition of sparkling wines produced from the grape cultivar Parellada  
M.A. POZO-BAYÓN, M.C. POLO, P.J. MARTÍN-ALVAREZ, E. PUEYO (Spain)
- 421 Study of coloured components formed in sugar beet processing  
M. COCA, M.T. GARCÍA, G. GONZÁLEZ, M. PEÑA, J.A. GARCÍA (Spain)
- 435 In vitro binding of bile acids by soy bean (*Glycine max*), black eye bean (*Vigna unguiculata*), garbanzo (*Cicer arietinum*) and lima bean (*Phaseolus lunatus*)  
T.S. KAHLOON, Q. SHAO (USA)
- 441 Identification of anthocyanins of pinta boca (*Solanum stenotomum*) tubers  
C. ALCALDE-EON (Spain), G. SAAVEDRA (Bolivia), S. DE PASCUAL-TERESA, J.C. RIVAS-GONZALO (Spain)
- ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION**
- 449 Simultaneous HPLC determination of carotenoids used as food coloring additives: applicability of accelerated solvent extraction  
D.E. BREITHAUPT (Germany)
- 457 Determination of water content in powdered milk  
C. REH, S.N. BHAT, S. BERRUT (Switzerland)
- 465 Comparison of donor-acceptor and alumina columns for the clean-up of polycyclic aromatic hydrocarbons from edible oils  
A. BARRANCO, R.M. ALONSO-SALCES, E. CORTA, L.A. BERRUETA, B. GALLO, F. VICENTE, M. SAROBE (Spain)
- 475 ANCM Bibliography
- I Calendar

**Volume 86 Number 4 2004**

- 479 The influence of different treatments on the free radical scavenging activity of burdock and variations of its active components  
F.A. CHEN, A.-B. WU, C.-Y. CHEN (Taiwan)
- 485 Triglyceride, total and 2-position fatty acid composition of Cornicabra virgin olive oil: Comparison with other Spanish cultivars  
F. ARANDA, S. GÓMEZ-ALONSO, R.M. RIVERA DEL ÁLAMO, M.D. SALVADOR, G. FREGAPANE (Spain)
- 493 Effect of surimi quality on properties of edible films based on Alaska pollack  
Y. SHIKU, P. YUCA HAMAGUCHI (Japan), S. BENJAKUL, W. VISESSANGUAN (Thailand), M. TANAKA (Japan)
- 501 Total antioxidant capacity in different pea (*Pisum sativum*) varieties after blanching and freezing  
J. NILSSON, R. STEGMARK, B. ÅKESSON (Sweden)
- 509 Influences of gamma irradiation and storage on the capsaicinoids of sun-dried and dehydrated paprika  
A. TOPUZ, F. OZDEMIR (Turkey)
- 517 Effects of heating and the addition of seasonings on the anti-mutagenic and anti-oxidative activities of polyphenols  
H. BAO, H. REN, H. ENDO, Y. TAKAGI, T. HAYASHI (Japan)
- 525 The radical scavenging activities of *radix puerariae* isoflavonoids: A chemiluminescence study  
Y. WENLI, Z. YAPING, S. BO (China)
- 531 Stability of conjugated linoleic acid isomers in egg yolk lipids during frying  
L. YANG, Y. CAO, Z.-Y. CHEN (China)
- 537 Effects of different germination conditions on the contents of free protein and non-protein amino acids of commercial legumes  
Y.-H. KUO, P. ROZAN, F. LAMBEIN (Belgium), J. FRIAS, C. VIDAL-VALVERDE (Spain)
- 547 Analysis of heavy metals in some wild-grown edible mushrooms from the middle black sea region, Turkey  
Ö. ISILDAK, I. TURKEKUL, M. ELMASTAS, M. TUZEN (Turkey)
- 553 Characterisation of Egyptian Ras cheese. 2. Flavour formation  
E.H.E. AYAD, S. AWAD, A. EL ATTAR (Egypt), C. DE JONG (The Netherlands), M. EL-SODA (Egypt)
- 563 Artificial aging of wines using oak chips  
P. ARAPITSAS, A. ANTONOPOULOS, E. STEFANOU, V.G. DOURTOGLOU (Greece)
- 571 Rheological study of starch and dairy ingredient-based food systems  
H. YANG, J. IRUDAYARAJ, S. OTGONCHIMEG, M. WALSH (USA)
- 579 Development and evaluation of an enriched natural antioxidant preparation obtained from aqueous spinach (*Spinacia oleracea*) extracts by an adsorption procedure  
E. AEHLE, S. RAYNAUD-LE GRANDIC, R. RALAINIRINA, S. BALTORA-ROSSET, F. MESNARD, C. PROUILLET, J.-C. MAZIÈRE, M.-A. FLINIAUX (France)
- 587 Comparison of essential oil composition of *Carum copticum* obtained by supercritical carbon dioxide extraction and hydrodistillation methods  
M. KHAJEH, Y. YAMINI, F. SEFIDKON, N. BAHRAMIFAR (Iran)
- 593 Antioxidant effectiveness of selected wines in comparison with (+)-catechin  
V. KATALINIĆ, M. MILOS, D. MODUN, I. MUSIĆ, M. BOBAN (Croatia)
- 601 Influence of acetic anhydride on physicochemical, morphological and thermal properties of corn and potato starch  
N. SINGH, D. CHAWLA, J. SINGH (India)
- 609 Simultaneous quantification of methanol and ethanol in alcoholic beverage using a rapid gas chromatographic method coupling with dual internal standards  
M.-L. WANG, J.-T. WANG, Y.-M. CHOONG (Taiwan)
- 617 HPLC-ICP-MS speciation of selenium in enriched onion leaves – a potential dietary source of Se-methylselenocysteine  
KATARZYNA WRÓBEL, KAZIMIERZ WRÓBEL, S.S. KANNAMKUMARATH, J.A. CARUSO (USA), I.A. WYSOCKA, E. BULSKA, J. ŚWIĘTEK, M. WIERZBICKA (Poland)
- 625 Characterization and safety evaluation of the traditional Greek fruit distillate "Mouro" by flavor compounds and mineral analysis  
E.H. SOUFLEROS, A.S. MYGDALIA, P. NATSKOULIS (Greece)

I Papers Published in Volume 86

V Calendar