



ELSEVIER

## Bibliography of analytical, nutritional and clinical methods

(2 weeks journals. Search completed at 31st. Dec. 2003)

### 1. Books, reviews & symposia

- Sherma J// Lafayette Coll, Dept Chem, Easton, Pa 18042, USA  
*J AOAC Int* 2003 **86** (5) 873  
High-performance liquid chromatography/mass spectrometry analysis of botanical medicines and dietary supplements: A review  
Wenzl T, De la Calle MB, Anklam E\*// \*Commiss European Communities Joint Res Ctr, Food Safety & Qual Unit, BE-2440 Geel, Belgium  
*Food Addit Contam* 2003 **20** (10) 885  
Analytical methods for the determination of acrylamide in food products: A review

### 3. Amino acids, proteins & enzymes

- Cserhati T, Forgacs E, Illes Z// Hungarian Acad Sci, Inst Chem, Chem Res Ctr, POB 17, HU-1525 Budapest, Hungary  
*J Liq Chromatogr Relat Technol* 2003 **26** (16) 2751  
TLC study of the binding of nonionic surfactants to the corn protein zein  
Henterich N, Osman AA, Mendez E, Mothes T\*// \*Univ Klinikum AoR, Inst Lab Med Klin Chem & Mol Diagn, Liebigstr 27, DE-04103 Leipzig, Germany  
*Nahrung* 2003 **47** (5) 345  
Assay of gliadin by real-time immunopolymerase chain reaction  
Hiss S, Knura-Deszcka S, Regula G, Hennies M, Gymnich S, Petersen B, Sauerwein H// Univ Bonn, Inst Physiol Biochem & Anim Hyg, Katzenburgweg 7-9, DE-53115 Bonn, Germany  
*Vet Immunol Immunopathol* 2003 **96** (1-2) 73  
Development of an enzyme immunoassay for the determination of porcine haptoglobin in various body fluids: Testing the significance of meat juice measurements for quality monitoring programs  
Kim MR, Kawamura Y, Lee CH\*// \*Korea Univ, Grad Sch Biotechnol, Ctr Adv Food Sci & Technol, Seoul 136 701, South Korea  
*J Food Sci* 2003 **68** (8) 2416  
Isolation and identification of bitter peptides of tryptic hydrolysate of soybean 11S glycinin by reverse-phase-high-performance liquid chromatography  
Mazzeo MF, De Giulio B, Senger S, Rossi M, Malomi A, Siciliano RA\*// \*CNR, Ist Sci Alimentaz, Ctr Spettrometria Massa Proteom & Biomol, Via Roma 52, IT-83100 Avellino, Italy  
*Protein Sci* 2003 **12** (11) 2434  
Identification of *trans* glutaminase mediated deamidation sites in a recombinant  $\alpha$ -gliadin by advanced mass-spectrometric methodologies  
Mennella G, Sanaja VO, D'Alessandro A, Milone M, Perrone D// Ist Sperimentale Orticoltura - MIPAF, Via Cavallegeri 25, IT-84098 Pontecagnano, Italy  
*Euphytica* 2003 **134** (1) 85  
HPLC analyses of seed storage proteins reveal polymorphism in Italian common bean (*Phaseolus vulgaris* L.) ecotypes  
Molina LH, Casanova M, Gonzalez LA, Pinto M, Carrasco E, Brito C// Univ Austral Chile, Fac Ciencias Agr, Inst Ciencia & Technol Alimentos, Valdivia, Chile  
*Int J Dairy Technol* 2003 **56** (4) 211  
Identification of the genetic variants of  $\kappa$ -casein in milk by isoelectric focusing electrophoresis

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical, nutritional and clinical methods. The bibliography is divided into fourteen sections: 1 Books, reviews & symposia; 2 General; 3 Amino acids, proteins & enzymes; 4 Carbohydrates; 5 Lipids; 6 Vitamins & co-factors; 7 Trace elements & minerals; 8 Drug, biocide & processing residues; 9 Toxins/Allergens; 10 Additives; 11 Flavours & aromas; 12 Organic acids; 13 Animal products; 14 Plant & microbial products. Within each section, articles are listed in alphabetical order with respect to the author. Where there are no papers to appear under a heading, it will be omitted.

- Seilmeier W, Wieser H\*// \*Deutsch Forsch Anstalt Lebensmittelchem, Lichtensbergstr 4, DE-85748 Garching, Germany  
*Eur Food Res Technol* 2003 **217** (4) 360  
Comparative investigations of gluten proteins from different wheat species. IV. Reactivity of gliadin fractions and components from different wheat species in a commercial immunoassay  
Stevenson SG, You S, Izquierdo MS, Preston KR\*// \*Canadian Grain Commis, Grain Res Lab, Winnipeg, Manitoba, Canada R3C 3G8  
*J Liq Chromatogr Relat Technol* 2003 **26** (17) 2771  
Characterization of polymeric wheat proteins by flow field-flow fractionation/MALLS

### 4. Carbohydrates

- Andersen KE, Bjergegaard C, Moller P, Sorensen JC, Sorensen H\*// \*Royal Vet & Agr Univ, Dept Chem, Thovaldsensvej 40, DK-1871 Frederiksberg C, Denmark  
*J Agric Food Chem* 2003 **51** (22) 6391  
High-performance capillary electrophoresis with indirect UV detection for determination of  $\alpha$ -galactosides in Leguminosae and Brassicaceae

### 5. Lipids

- Biswas S, Heindelman K, Wohltjen H, Staff C\*// \*Univ Louisville, Food Proc Program, Rm 435, Lutz Hall, Louisville, Ky 40292, USA  
*Food Control* 2003 **15** (1) 19  
Differentiation of vegetable oils and determination of sunflower oil oxidation using a surface acoustic wave sensing device  
Bunting JP, Gray DA\*// \*Univ Nottingham, Sch Biosci, Div Food Sci, Sutton Bonington Campus, Loughborough LE12 5RD, England  
*J Am Oil Chem Soc* 2003 **80** (10) 951  
Development of a flow injection chemiluminescent assay for the quantification of lipid hydroperoxides  
Fang NB, Yu SG, Badger TM// Arkansas Childrens Nutr Ctr, 1120 St Marshall St, Little Rock, Ar 72202, USA  
*J Agric Food Chem* 2003 **51** (23) 6676  
LC-MS/MS analysis of lysophospholipids associated with soy protein isolate  
Kozutsumi D, Kawashima A, Adachi M, Takami M, Takemoto N, Yonekubo A// Meiji Dairies Corp Ltd, Pharmaceut Dev Dept, Res & Dev Sect 1, Naruda 540, Odawara, Kanagawa 250 086, Japan  
*Int Dairy J* 2003 **13** (12) 937  
Determination of docosahexaenoic acid in milk using affinity solid-phase purification with argentous ions and modified thin layer chromatography  
Kumara B, Jinap S\*, Man YBC, Yusoff MSA// \*Univ Putra Malaysia, Fac Food Sci & Biotechnol, MY-43400 Serdang, Selangor, Malaysia  
*Food Sci Technol Int* 2003 **9** (4) 295  
Comparison of colour techniques to measure chocolate fat bloom  
Moreau RA, Powell MJ, Hicks KB// USDA/ARS, Crop Convers Sci & Engn Res Unit, Eastern Reg Res Ctr, 600 East Mermaid Lane, Wyndmoor, Pa 19038, USA  
*J Agric Food Chem* 2003 **51** (23) 6663  
Evaluation of a commercial enzyme-based serum cholesterol test kit for analy-

- sis of phytosterol and phytostanol products  
Nagy E, Kormeny L\*// \*Hungarian Meat Res Inst, Gubacsi ut 6/B, HU-1097 Budapest, Hungary  
*Acta Aliment* 2003 **32** (3) 289
- Determination of fat content in meat by pulsed nuclear magnetic resonance (P-NMR) technique  
Sanches-Silva A, De Quiros ARB, Lopez-Hernandez J, Pasciro-Losada P// Univ Santiago de Compostela, Fac Pharm, Dept Analyt Chem Nutr & Bromatol, ES-15782 Santiago de Compostela, Spain  
*Chromatographia* 2003 **58** (7-8) 517
- Gas chromatographic determination of glycerides in potato crisps fried in different oils  
Soriano NU, Migo VP, Matsumura M\*// \*Univ Tsukuba, Inst Appl Biochem, Tennodai 1-1-1, Tsukuba, Ibaraki 305 0006, Japan  
*J Am Oil Chem Soc* 2003 **80** (10) 997
- Ozonation of sunflower oil: Spectroscopic monitoring of the degree of unsaturation  
Thiex NJ, Anderson S, Gildemeister B// Sth Dakota State Univ, Oscar E Olson Biochem Labs, Box 2170, ASC 151, Brookings, SD 57007, USA  
*J AOAC Int* 2003 **86** (5) 888
- Crude fat, diethyl ether extraction, in feed, cereal grain, and forage (Randall/Soxtec/submersion method): Collaborative study  
Thiex NJ, Anderson S, Gildemeister B// Address as above  
*J AOAC Int* 2003 **86** (5) 899
- Crude fat, hexanes extraction, in feed, cereal grain, and forage (Randall/Soxtec/submersion method): Collaborative study

## 6. Vitamins & co-factors

- Klampfl CW, Vo TDT// Johannes Kepler Univ, Dept Analyt Chem, Altenbergerstr 69, AT-4040 Linz, Austria  
*J Liq Chromatogr Relat Technol* 2003 **26** (17) 2783
- Comparison of capillary zone electrophoretic techniques combined with indirect UV, direct UV, and mass spectrometric detection for the determination of underivatized amino acids and vitamin B<sub>6</sub> in infusion solutions  
Lesellier E, West C, Tchapla A// Univ Paris Sud XI, LETIAM, Grp Chim Analyt, Plateau Moulon, FR-91400 Orsay, France  
*J Chromatogr A* 2003 **1018** (2) 225
- Advantages of the use of monolithic stationary phases for modelling the retention in sub/supercritical chromatography. Application to *cis/trans*-β-carotene separation  
Mendoza BR, Pons SM, Bargallo AIC, Lopez-Sabater MC\*// \*Univ Barcelona, Fac Farm, Dept Nutr & Bromatol, CeRTA, Avda Joan 23 s/n, ES-08028 Barcelona, Spain  
*J Chromatogr A* 2003 **1018** (2) 197
- Rapid determination by reversed-phase high-performance liquid chromatography of vitamins A and E in infant formulas  
Takenaka S, Enomoto T, Tsuyama S, Watanabe F\*// \*Kochi Womens Univ, Dept Hlth Sci, Kochi 780 8515, Japan  
*J Liq Chromatogr Relat Technol* 2003 **26** (16) 2703
- TLC analysis of corrinoid compounds in fish sauce  
Wang CJ, Pao LH, Hsiong CH, Wu CY, Whang-Peng JJK, Hu OYP\*// \*Natl Def Med Ctr, Res & Dev Affairs, NeiHu, POB 90048-512, Tokyo 114, Japan  
*J Chromatogr B* 2003 **796** (2) 283
- Novel inhibition of *cis/trans* retinoic acid interconversion in biological fluids: An accurate method for determination of trans and 13-*cis* retinoic acid in biological fluids

## 7. Trace elements & minerals

- Al-Bataina BA, Maslat AO\*, Al-Kofahi MM// \*Yarmouk Univ, Dept Phys, POB 4538, JO-21163 Irbid, Jordan  
*J Trace Elem Med Biol* 2003 **17** (2) 85
- Element analysis and biological studies on ten oriental spices using XRF and Ames test  
Delgado-Andrade C, Navarro M\*, Lopez H, Lopez MC// \*Univ Granada, Fac Pharm, Dept Nutr & Food Sci, ES-18071 Granada, Spain  
*Food Addit Contam* 2003 **20** (10) 923
- Determination of total arsenic levels by hydride generation atomic absorption spectrometry in foods from south-east Spain: Estimation of daily dietary intake  
Divrikli U, Saracoglu S, Soylak M\*, Elci L// \*Erciyes Univ, Fac Art & Sci, Dept Chem, TR-38039 Kayseri, Turkey  
*Fresenius Environ Bull* 2003 **12** (9) 1123
- Determination of trace heavy metal contents of green vegetable samples from Kayseri-Turkey by flame atomic absorption spectrometry  
Sabe R, Rubio R\*, Garcia-Beltran L// \*Univ Barcelona, Dept Quim Analit, Marti i Franques 1-11, ES-08028 Barcelona, Spain  
*J Trace Elem Med Biol* 2003 **17** (2) 73
- Selenium measurement in human plasma with Zeeman effect electrothermal atomic absorption spectrometry: Sample stability and calibration method  
Stefan RI, Bairu SG// Univ Pretoria, Dept Chem, ZA-0002 Pretoria, Rep Sth Africa  
*Anal Chem* 2003 **75** (20) 5394
- Monocrystalline diamond paste-based electrodes and their applications for the determination of Fe(II) in vitamins

## 8. Drug, biocide & processing residues

- Ahn JSS, Castle L\*// \*Dept Environm Food & Rural Affairs, Cent Sci Lab, York YO41 1LZ, England  
*J Agric Food Chem* 2003 **51** (23) 6715
- Tests for the depolymerization of polyacrylamides as a potential source of acrylamide in heated foods  
De Nino A, Santelli F, Servidio N, Sindona G\*, Tagarelli A// \*Univ Calabria, Dipt Chim, Via P Bucci, Cubo 15/C, IT-87030 Arcavacata di Rende, CS, Italy  
*J AOAC Int* 2003 **86** (5) 1003
- Identification and assay of organophosphates in organic oranges by gas chromatography with pulsed flame photometric detection and ion-trap mass spectrometry  
Dopico-Garcia MS, Lopez-Vilarino JM, Gonzalez-Rodriguez MV\*// \*EU Politecn, Dept Quim Analit, Avda 19 Febrero, ES-15405 Ferrol, Spain  
*J Chromatogr A* 2003 **1018** (1) 53
- Determination of antioxidant migration levels from low-density polyethylene films into food simulants  
El-Kholi H, Kemppainen BW\*// \*Auburn Univ, Coll Vet Med, Dept Anat Physiol & Pharmacol, Auburn, AL 36849, USA  
*J Chromatogr B* 2003 **796** (2) 371
- Liquid chromatographic method with ultraviolet absorbance detection for measurement of levamisole in chicken tissues, eggs and plasma  
Gonzalez CF, Otero RR, Grande BC, Gandara JS\*// \*Univ Vigo, Fac Food Sci & Technol, Analyt & Food Chem Dept, Nutr & Bromatol Grp, Ourense Campus, Ourense, Spain  
*J AOAC Int* 2003 **86** (5) 1008
- Determination of fungicide residues in white grapes for winemaking by gas chromatography with mass spectrometric detection and assessment of matrix effects  
Hengel M, Hung B, Engebretson J, Shibamoto T// Univ Calif Davis, Dept Environm Toxicol, 1 Shields Ave, Davis, CA 95616, USA  
*J Agric Food Chem* 2003 **51** (23) 6635
- Analysis of fenthionamid in caneberry, blueberry, and pomegranate by liquid chromatography-tandem mass spectrometry  
Kang JH, Kondo F\*// Miyazaki Univ, Fac Agr, Dept Vet Publ Hlth, Miyazaki 889 2192, Japan  
*J Food Prot* 2003 **66** (8) 1439
- Determination of bisphenol A in milk and dairy products by high-performance liquid chromatography with fluorescence detection  
Kishida K, Furusawa N\*// \*Osaka City Univ, Grad Sch Human Life Sci, Sumiyoshi ku, Osaka 558 8585, Japan  
*J Liq Chromatogr Relat Technol* 2003 **26** (17) 2931
- Toxic/harmful solvents-free technique for HPLC determination of six sulfonamides in meat  
Klein J, Alder L\*// \*Fed Inst Risk Assessment, POB 33.00.13, DE-14191 Berlin, Germany  
*J AOAC Int* 2003 **86** (5) 1015
- Applicability of gradient liquid chromatography with tandem mass spectrometry to the simultaneous screening for about 100 pesticides in crops  
MacNeil JD, Reid J, Neiser CD, Fesser ACE// Canadian Food Inspect Agcy, Saskatoon Lab, Ctr Veterinary Drug Residues, 116 Veterinary Rd, Saskatoon, Saskatchewan, Canada S7N 2R3  
*J AOAC Int* 2003 **86** (5) 916
- Single-laboratory validation of a modified liquid chromatographic method with UV detection for determination of trenbolone residues in bovine liver and muscle  
Molina MP, Althaus RL, Molina A, Fernandez N// Univ Politecn Valencia,

- Dept Ciencia Anim, Camino Vera 14, ES-46071 Valencia, Spain  
*Int Dairy J* 2003 **13** (10) 821  
 Antimicrobial agent detection in ewes' milk by the microbial inhibitor test brilliant black reduction test-BRT AIM®  
 Murillo Pulgarin JA, Fernandez Lopez P, Garcia Bermejo LF, Martin Alfonso F// Univ Castilla La Mancha, Dept Analyt Chem & Food Technol, ES-13071 Ciudad Real, Spain  
*J Agric Food Chem* 2003 **51** (22) 6380  
 Fast kinetic determination of 1-naphthylacetic acid in commercial formulations, soils, and fruit samples using stopped-flow phosphorimetry  
 Nyman PJ, Diachenko GW, Perfetti GA// US/FDA, Div Chem Res & Environm Review, Off Food Addit Safety, Ctr Food Safety & Appl Nutr, College Park, Md 20740, USA  
*Food Addit Contam* 2003 **20** (10) 903  
 Determination of 1,3-dichloropropanol in soy and related sauces by using gas chromatography/mass spectrometry  
 Page-Sharp M, Hale TW, Hackett LP, Kristensen JH, Ilett KF// Univ Western Australia, Sch Med & Pharmacol, Pharmacol Unit, M510, 35 Stirling Highway, Crawley, WA 6009, Australia  
*J Chromatogr B* 2003 **796** (1) 173  
 Measurement of nicotine and cotinine in human milk by high-performance liquid chromatography with ultraviolet absorbance detection  
 Pena AL, Lino CM, Silveira MIN// Univ Coimbra, Fac Pharm, Grp Bromatol, Ctr Pharmaceut Studies, PT-3000 Coimbra, Portugal  
*J AOAC Int* 2003 **86** (5) 925  
 Determination of tetracycline antibiotics in salmon muscle by liquid chromatography using post-column derivatization with fluorescence detection  
 Pollien P, Lindinger C, Yeretzian C, Blank I\*// \*Nestle Res Ctr, Vers-chez-les-Blanc, CH-1000 Lausanne 26, Switzerland  
*Anal Chem* 2003 **75** (20) 5488  
 Proton transfer reaction mass spectrometry, a tool for on-line monitoring of acrylamide formation in the headspace of Maillard reaction systems and processed food  
 Roybal JE, Pfenning AP, Storey JM, Gonzales SA, Turnipseed SB// US/FDA, Anim Drugs Res Ctr, Denver Fed Ctr, POB 25087, Denver, Co 80225, USA  
*J AOAC Int* 2003 **86** (5) 930  
 Liquid chromatographic determination of diminazene diaceturate (Berenil™) in raw bovine milk  
 Sanderson DCW, Carmichael LA, Fisk S// Scottish Univ Res & Reactor Ctr, Scottish Enterprise Technol Pk, Rankine Ave, East Kilbride G75 0QF, Scotland  
*J AOAC Int* 2003 **86** (5) 971  
 Thermoluminescence detection of irradiated fruits and vegetables: International interlaboratory trial  
 Sanderson DCW, Carmichael LA, Fisk S// Address as above  
*J AOAC Int* 2003 **86** (5) 976  
 Thermoluminescence detection of irradiated shellfish: International interlaboratory trial  
 Sanderson DCW, Carmichael LA, Fisk S// Address as above  
*J AOAC Int* 2003 **86** (5) 983  
 Photostimulated luminescence detection of irradiated shellfish: International interlaboratory trial  
 Sanderson DCW, Carmichael LA, Fisk S// Address as above  
*J AOAC Int* 2003 **86** (5) 990  
 Photostimulated luminescence detection of irradiated herbs, spices, and seasonings: International interlaboratory trial  
 Silva JL, Wang CL, Scruggs M, Silva PL, Kim T// Mississippi State Univ, Dept Food Sci & Technol, Mississippi Agr & Forestry Expt Stn, Box 9805, Mississippi State, Ms 39762, USA  
*J Rapid Methods Autom Microbiol* 2003 **11** (2) 153  
 Impedance microbiology to screen various antimicrobials on whole and fillet channel catfish
- 7UA, England  
*Food Control* 2003 **15** (1) 65  
 Use of the indirect competitive ELISA for the detection of Brazil nut in food products  
 Holland PT, McNabb P, Selwood AI, Neil T// Cawthron Inst, Private Bag 2, 98 Halifax St East, Nelson, New Zealand  
*J AOAC Int* 2003 **86** (5) 1095  
 Amnesic shellfish poisoning toxins in shellfish: Estimation of uncertainty of measurement for a liquid chromatography/tandem mass spectrometry method  
 Razzazi-Fazeli E, Bohm J, Jarukamorn K, Zentek J// Univ Vet Med, Inst Nutr, Veterinarpl 1, AT-1210 Vienna, Austria  
*J Chromatogr B* 2003 **796** (1) 21  
 Simultaneous determination of major B-trichothecenes and the de-epoxy-metabolite of deoxynivalenol in pig urine and maize using high-performance liquid chromatography-mass spectrometry  
 Sarimehmetoglu B, Kupulu O, Celik TH// Ankara Univ, Fac Vet Med, Dept Food Hyg & Technol, TR-06110 Ankara, Turkey  
*Food Control* 2003 **15** (1) 45  
 Detection of aflatoxin M<sub>1</sub> in cheese samples by ELISA

## 10. Additives

- De Villiers A, Alberts F, Lynen F, Crouch A, Sandra P\*// \*Univ Stellenbosch, Dept Chem, CENSSUS, Private Bag XI, ZA-7602 Matieland, Rep Sth Africa  
*Chromatographia* 2003 **58** (7-8) 393  
 Evaluation of liquid chromatography and capillary electrophoresis for the elucidation of the artificial colorants brilliant blue and azorubine in red wines  
 Lau DW, King AJ\*, Waterhouse AL// \*Univ Calif Davis, Dept Anim Sci, Davis, Ca 95616, USA  
*J Agric Food Chem* 2003 **51** (23) 6640  
 An assay to estimate tannins added to postmortem turkey meat  
 Weng ND, Hua S, Roets E, Hoogmartens J\*// \*Katholieke Univ Leuven, Fac Farm Wetenschappen, Lab Farmaceut Chem Anal Geneesmiddeln, BE-3000 Louvain, Belgium  
*J Pharmaceut Biomed Anal* 2003 **33** (1) 85  
 Assay and purity control of tetracycline, chlortetracycline and oxytetracycline in animal feeds and premixes by TLC densitometry with fluorescence detection

## 11. Flavours & aromas

- Alewijn M, Shwinski EL, Wouters JTM// Univ Wageningen & Res Ctr, Dept Food Technol & Human Nutr, Bomenweg 2, NL-6703 HD Wageningen, The Netherlands  
*Int Dairy J* 2003 **13** (9) 733  
 A fast and simple method for quantitative determination of fat-derived medium and low-volatile compounds in cheese  
 Garruti DS, Franco MRB, Da Silva MAAP, Janzanti NS, Alves GL// Embrapa Agroind Trop, Rua Dra Sara Mesquita 2270, BR-60511-110 Fortaleza, Ceara, Brazil  
*J Sci Food Agric* 2003 **83** (14) 1455  
 Evaluation of volatile flavour compounds from cashew apple (*Anacardium occidentale* L) juice by the Osme gas chromatography/olfactometry technique  
 Mayr D, Van Ruth SM, Mark TD\*// \*Innsbruck Univ, Inst Ionenphys, Technikerstr 25, AT-6020 Innsbruck, Austria  
*Eur Food Res Technol* 2003 **217** (4) 291  
 Evaluation of the influence of mastication on temporal aroma release of ripe and unripe bananas, using a model mouth system and gas chromatography-olfactometry  
 Spangenberg B, Stroka J, Arranz I, Anklam E// Univ Appl Sci Offenburg, Badstr 24, DE-77652 Offenburg, Germany  
*J Liq Chromatogr Relat Technol* 2003 **26** (16) 2729  
 A simple and reliable HPTLC method for the quantification of the intense sweetener Sucralose®  
 Vichi S, Pizzale L, Conte LS, Buxaderas S, Lopez-Tamames E\*// \*Univ Udine, Dipt Sci Alimenti, Via Marangoni 97, IT-33100 Udine, Italy  
*J Agric Food Chem* 2003 **51** (22) 6564  
 Solid-phase microextraction in the analysis of virgin olive oil volatile fraction: Modifications induced by oxidation and suitable markers of oxidative status  
 Vichi S, Pizzale L, Conte LS, Buxaderas S, Lopez-Tamames E\*// \*Address as above  
*J Agric Food Chem* 2003 **51** (22) 6572  
 Solid-phase microextraction in the analysis of virgin olive oil volatile fraction:

## 9. Toxins/Allergens

- Bire R, Krys S, Fremy JM, Dragacci S// Agence Francaise Securite Sanitaire Aliments, Unite Toxines Microbiennes, 10 rue Pierre Curie, FR-94704 Maisons Alfort, France  
*J Agric Food Chem* 2003 **51** (22) 6386  
 Improved solid-phase extraction procedure in the analysis of paralytic shellfish poisoning toxins by liquid chromatography with fluorescence detection  
 Clemente A, Chambers SJ, Lodi F, Nicoletti C, Brett GM\*// \*AFRC Institute Food Research, Nutr & Consumer Sci Div, Norwich Res Pk, Norwich NR4

Characterization of virgin olive oils from two distinct geographical areas of northern Italy

## 12. Organic acids

Fung YS, Lau KM// Univ Hong Kong, Dept Chem, Hong Kong, Peoples Rep China

*Electrophoresis* 2003 **24** (18) 3224

Analysis of organic acids and inorganic anions in beverage drinks by capillary electrophoresis

## 13. Animal products

Bertram HC, Whittaker AK, Shorthose WR, Andersen HJ, Karlsson AH// Danish Inst Agr Sci, Dept Food Sci, Res Ctr Foulum, POB 50, DK-8830 Tjele, Denmark

*Meat Sci* 2003 **66** (2) 301

Water characteristics in cooked beef as influenced by ageing and high-pressure treatment: An NMR micro imaging study

Bertram HC, Engelsen SB, Busk H, Karlsson AH, Andersen HJ// Address as above

*Meat Sci* 2003 **66** (2) 437

Water properties during cooking of pork studied by low-field NMR relaxation: Effects of curing and the RN gene

Binke R, Eichner R, Zah M, Schwagele F\*// \*Inst Chem & Phys, Bundesanstalt Fleischforsch, EC Baumannstr 20, DE-95326 Kulmbach, Germany

*Arch Lebensmittelhyg* 2003 **54** (3) 52

Development of an efficient extraction system for the isolation of nucleic acid from meat and meat products for PCR (German, English Abstract)

Chattopadhyay P// Forens Lab, DNA Unit, IN-500016 Hyderabad, India

*Food Chem Toxicol* 2003 **41** (12) 1719

RAPD markers system as a useful tool for rapid identification of the origin of lizard contaminants in food

Chen J, Lindmark-Mansson H, Gorton L, Akesson B\*// \*Lund Univ, Dept Analyt Chem, Ctr Chem & Chem Engn, POB 124, SE-22100 Lund, Sweden

*Int Dairy J* 2003 **13** (12) 927

Antioxidant capacity of bovine milk as assayed by spectrophotometric and amperometric methods

Guerrero L, Gobantes I, Oliver MA, Arnau J, Guardia MD, Elvira J, Riu P, Grebol N, Montfort JM// Inst Recerca & Tecnol Agroalimentaires, Ctr Tecnol Carn, Granja Camps & Armet, ES-17121 Monells, Girona, Spain

*Meat Sci* 2003 **66** (2) 289

Green hams electrical impedance spectroscopy (EIS) measures and pastiness prediction of dry cured hams

Harada K, Okano C, Kadoguchi H, Okubo Y, Ando M, Kitao S, Tamura Y// Natl Fisheries Univ, Biotechnol Lab, Dept Food Sci & Technol, Shimonoseki, Yamaguchi 759 65, Japan

*Int J Mol Med* 2003 **12** (4) 621

Peroxyl radical scavenging capability of fish sauces measured by the chemiluminescence method

Ilian MA, Bickerstaffe R, Greaser ML\*// \*Univ Wisconsin, Muscle Biol Lab, Madison, WI 53706, USA

*Meat Sci* 2003 **66** (1) 231

Postmortem changes in myofibrillar-bound calpain 3 revealed by immunofluorescence microscopy

Jha VK, Kumar A\*, Mandokhot UV// \*CCS Haryana Agr Univ, Dept Vet Publ Hith, IN-125004 Hisar, Haryana, India

*J Food Sci Technol-Mysore* 2003 **40** (3) 254

Indirect enzyme-linked immunosorbent assay in detection and differentiation of cooked and raw pork from meats of other species

Li ZY, Yi MY, Gao JT// Guangzhou Entry-Exit Inspect & Quarantine Bureau, Food Inspect Lab, CN-510623 Guangzhou, Peoples Rep China

*J AOAC Int* 2003 **86** (5) 998

Rapid impedance method for predicting the potential shelf life of packaged pasteurized milk

Lin MS, Cavinato AG, Mayes DM, Smiley S, Huang YQ, Al-Holy M, Rasco BA// Washington State Univ, Dept Food Sci & Human Nutr, Box 646376, Pullman, Wa 99164, USA

*J Agric Food Chem* 2003 **51** (22) 6404

Bruise detection in Pacific pink salmon (*Oncorhynchus gorbuscha*) by visible and short-wavelength near-infrared (SW-NIR) spectroscopy (600-1100nm)

Young OA, West J, Hart AL, Van Otterdijk FFH// Auckland Univ Technol, Dept Appl Sci, Auckland, New Zealand

*Meat Sci* 2003 **66** (2) 493

A method for early determination of meat ultimate pH

## 14. Plant & microbial products

Brescia MA, Sgaramella A, Ghelli S, Sacco A// Univ Bari, Dipt Chim, Campus Univ, Via Orabona 4, IT-70126 Bari, Italy

*J Sci Food Agric* 2003 **83** (14) 1463

<sup>1</sup>H HR-MAS NMR and isotopic investigation of bread and flour samples produced in southern Italy

Chen QC, Li BW// 1754 39th St SW 202, Fargo, ND 58103, USA

*J Chromatogr A* 2003 **1018** (1) 41

Separation of phytic acid and other related inositol phosphates by high-performance ion chromatography and its applications

Deshmukh AP, Simpson AJ, Hatcher PG\*// \*Ohio State Univ, Dept Chem, 100 West 18th Ave, Columbus Oh 43210, USA

*Phytochemistry* 2003 **64** (6) 1163

Evidence for cross-linking in tomato cutin using HR-MAS NMR spectroscopy

Etoh K, Niijima N, Yokoshita M, Fukuoka SI\*// \*Q'sai Co Ltd, Cent Res Inst, Munakata, Fukuoka 811 3422, Japan

*J Nutr Sci Vitaminol* 2003 **49** (5) 357

DNA-based identifications of *Brassica* vegetable species for the juice industry

Gu L, Klem A, Hammerstone JF, Zhang Z, Beecher G, Holden J, Haytowitz D, Prior RL\*// \*Arkansas Children's Nutr Ctr, 1120 Marshall St, Little Rock, Ar 72202, USA

*J Mass Spectrom* 2003 **38** (12) 1272

Liquid chromatographic/electrospray ionization mass spectrometric studies of proanthocyanidins in foods

Kanaze FI, Gabrieli C, Kokkalou E, Georgarakis M, Niopas I\*// \*Aristotle Univ Thessaloniki, Sch Hlth Sci, Dept Pharm, GR-54124 Thessaloniki, Greece

*J Pharmaceut Biomed Anal* 2003 **33** (2) 243

Simultaneous reversed-phase high-performance liquid chromatographic method for the determination of diosmin, hesperidin and naringin in different citrus fruit juices and pharmaceutical formulations

Kumar S, Singh AK, Kumar M, Yadav SK, Chauhan JS, Kumar PR// Natl Res Ctr Rapeseed-Mustard, IN-321303 Sewar, Bharatpur, India

*J Food Sci Technol-Mysore* 2003 **40** (3) 306

Standardization of near infrared reflectance spectroscopy (NIRS) for determination of seed oil and protein contents in rapeseed-mustard

Maatta KR, Kamal-Eldin A, Torronen AR// Univ Kuopio, Inst Appl Biotechnol, POB 1627, FI-70211 Kuopio, Finland

*J Agric Food Chem* 2003 **51** (23) 6736

High-performance liquid chromatography (HPLC) analysis of phenolic compounds in berries with diode array and electrospray ionization mass spectrometric (MS) detection: *Ribes* species

Mallis LM, Sarkahian AB, Harris HA, Zhang MY, McConnell OJ// Wyeth Res, Discovery Analyt Chem, Chem & Screening Sci, 500 Arcola Rd, RS-2402D, Collegeville, Pa 19426, USA

*J Chromatogr B* 2003 **796** (1) 71

Determination of rat oral bioavailability of soy-derived phytoestrogens using an automated on-column extraction procedure and electrospray tandem mass spectrometry

Pak Y, Patek R, Mayersohn M\*// \*Univ Arizona, Coll Pharm, Dept Pharm Practice & Sci, 1703 East Mabel St, Room 424, Tucson, Az 85721, USA

*J Chromatogr B* 2003 **796** (2) 339

Sensitive and rapid isocratic liquid chromatography method for the quantitation of curcumin in plasma

Sandberg M, Lundberg L, Ferm M, Yman IM// Natl Food Adm Toxicol Lab, Dept Res & Dev, Box 622, SE-75126 Uppsala, Sweden

*Eur Food Res Technol* 2003 **217** (4) 344

Real time PCR for the detection and discrimination of cereal contamination in gluten free foods

Tian QG, Schwartz SJ\*// \*Ohio State Univ, Dept Food Sci & Nutr, 110 Parker Food Sci & Technol Bldg, 2015 Fyffe Rd, Columbus, Oh 43210, USA

*Anal Chem* 2003 **75** (20) 5451

Mass spectrometry and tandem mass spectrometry of citrus limonoids

Yoshimura Y, Nakazawa H, Yamaguchi F// Hoshi Univ, Fac Pharmaceut Sci, Dept Analyt Chem, 2-4-41 Ebara, Shinagawa ku, Tokyo 142 8501, Japan

*J Agric Food Chem* 2003 **51** (22) 6409

Evaluation of the NO scavenging activity of procyanidin in grape seed by use of the TMA-PTIO/NOC 7 ESR system