

## Bibliography of analytical, nutritional and clinical methods

(2 weeks journals. Search completed at 22nd Sept 2004)

### 1. Books, reviews & symposia

- Arranz I, Baeyens WRG\*, Van der Weken G, De Saeger S, Van Peteghem C// \*State Univ Ghent, Fac Pharmaceut Sci, Dept Pharmaceut Analysis, Lab Drug Qual Control, BE-9000 Ghent, Belgium  
*Crit Rev Food Sci Nutr* 2004 **44** (3) 195  
Review: HPLC determination of fumonisin mycotoxins
- Kotretsou S// Inst Educat Technol, Food & Technol Dept, Iokastis 49, GR-10444 Athens, Greece  
*Crit Rev Food Sci Nutr* 2004 **44** (3) 173  
Determination of aminoglycosides and quinolones in food using tandem mass spectrometry: A review

### 3. Amino acids, proteins & enzymes

- Arslan O, Erzenin M, Sinan S, Ozensoy O// Balikesir Univ Sci & Art Fac, Dept Chem, TR-10100 Balikesir, Turkey  
*Food Chem* 2004 **88** (3) 479  
Purification of mulberry (*Morus alba* L.) polyphenol oxidase by affinity chromatography and investigation of its kinetic and electrophoretic properties
- Blanco D, Junco S, Exposito Y, Gutierrez D// Univ Oviedo, Dept Phys & Analyt Chem, C/ Julian Claveria 8, ES-33006 Oviedo, Spain  
*J Liq Chromatogr Relat Technol* 2004 **27** (10) 1523  
Study of various treatments to isolate low levels of cider proteins to be analyzed by capillary sieving electrophoresis
- Galliano F, Saletti R, Cunsolo V, Foti S\*, Marletta D, Bordonaro S, D'Urso G// \*Univ Catania, Dipartimento Sci Chim, Viale A Doria 6, IT-95125 Catania, Italy  
*Rapid Commun Mass Spectrom* 2004 **18** (17) 1972  
Identification and characterization of a new  $\beta$ -casein variant in goat milk by high-performance liquid chromatography with electrospray ionization mass spectrometry and matrix-assisted laser desorption/ionization mass spectrometry
- Ou S, Kwok KC, Wang Y, Bao H// Jinan Univ, Dept Food Sci & Engr, Shipai, CN-510632 Guangzhou, Peoples Rep China  
*Food Chem* 2004 **88** (2) 317  
An improved method to determine SH and -S-S- group content in soy milk protein
- Schlatterer B, Baeker R, Schlatterer K// Free Univ Berlin, Inst Vet Biochem, Oertzenweg 198, DE-14163 Berlin, Germany  
*J Chromatogr B* 2004 **807** (2) 223  
Improved purification of  $\beta$ -lactoglobulin from acid whey by means of ceramic hydroxyapatite chromatography with sodium fluoride as a displacer

### 4. Carbohydrates

- Sharma SK, Singh SK, Sehgal N, Kumar A\*// \*Inst Genomics & Integrative Biol, Mall Rd, IN-110007 Delhi, India  
*Food Chem* 2004 **88** (2) 299  
Biostrip technique for detection of galactose in dairy foods

### 5. Lipids

- Al-Alawi A, Van de Voort FR\*, Sedman J// \*McGill Univ, Dept Food Sci & Agr Chem, McGill IR Grp, Macdonald Campus, Ste Anne de Bellevue, Quebec, Canada H9X 3V9  
*J Am Oil Chem Soc* 2004 **81** (5) 441  
New FTIR method for the determination of FFA in oils
- Brescia MA, Mazzilli V, Sgaramella A, Ghelli S, Fanizzi FP, Sacco A// Univ Bari, Dipt Chim, Campus Univ, Via Orabona 4, IT-70126 Bari, Italy  
*J Am Oil Chem Soc* 2004 **81** (5) 431  
<sup>1</sup>H NMR characterization of milk lipids: A comparison between cow and buffalo milk
- Broadhurst CL, Schmidt WF\*, Crawford MA, Wang YQ, Li R// \*USDA/ARS, Nucl Magnet Resonance Facil, Environm Qual Lab, Beltsville, Md 20705, USA  
*J Agric Food Chem* 2004 **52** (13) 4250  
<sup>13</sup>C nuclear magnetic resonance spectra of natural undiluted lipids: Docosahexaenoic-rich phospholipid and triacylglycerol from fish
- Dugo P, Favoino O, Tranchida PQ, Dugo G, Mondello L// Univ Messina, Fac Sci, Dipartimento Chim Organ & Biol, Salita Sperone 31, IT-98166 Messina, Italy  
*J Chromatogr A* 2004 **1041** (1-2) 135  
Off-line coupling of non-aqueous reversed-phase and silver ion high-performance liquid chromatography-mass spectrometry for the characterization of rice oil triacylglycerol positional isomers
- Eras J, Dolcet A, Ferran J, Canela R\*// \*Lleida Univ, Dept Chem, Rovira Roure 191, ES-25198 Lleida, Spain  
*Food Sci Technol Int* 2004 **10** (2) 89  
Chlorotrimethylsilane - A reagent for the direct analysis of fats and oils in solid and paste samples
- Grandgirard A, Martine L, Joffre C, Juaneda P, Berdeaux O// INRA, Unite Nutr Lipid, 17 rue Sully, BP 86510, FR-21065 Dijon, France  
*J Chromatogr A* 2004 **1040** (2) 239  
Gas chromatographic separation and mass spectrometric identification of mixtures of oxyphytosterol and oxysterol derivatives - Application to a phytosterol-enriched food
- Kivini H, Jarvenpaa EP\*, Aro H, Huopalahti R, Ryhanen EL// \*Univ Turku, Dept Biochem & Food Chem, FI-20014 Turku, Finland  
*J Agric Food Chem* 2004 **52** (13) 4289  
Qualitative and quantitative liquid chromatographic analysis methods for the determination of the effects of feed supplements on hen egg yolk phospholipids
- Lin JT, Turner C, McKeon TA// USDA/ARS, Western Reg Res Ctr, 800 Buchanan St, Albany, Ca 94710, USA  
*J Liq Chromatogr Relat Technol* 2004 **27** (10) 1641  
Simultaneous separation of monoacylglycerols, free fatty acids, and fatty acid methyl and ethyl esters by reversed-phase HPLC
- Mjos SA// Norwegian Inst Fisheries & Aquaculture Res, Kjerreidviken 16, NO-5141 Fyllingsdalen, Norway  
*Eur J Lipid Sci Technol* 2004 **106** (5) 307  
Quantification of linolenic acid isomers by gas chromatography-mass spectrometry and deconvolution of overlapping chromatographic peaks
- Nygren H, Malmberg P, Kriegeskotte C, Arlinghaus HF// Univ Gothenburg,

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.

Dept Anat & Cell Biol, POB 420, SE-40530 Gothenburg, Sweden

*FEBS Lett* 2004 **566** (1-3) 291

Bioimaging TOF-SIMS: Localization of cholesterol in rat kidney sections

Paleari MA, Moretti VM, Bersani C, Beretta G, Mentasti T// Univ Milan, Dipt Sci & Tecnol Vet Sicurezza Alimentare, Via Celoria 10, IT-20133 Milan, Italy  
*Meat Sci* 2004 **67** (4) 549

Characterisation of a lard cured with spices and aromatic herbs

Perret D, Gentili A, Marchese A, Sergi M, Caporossi L// Univ La Sapienza, Dipt Chim, Lab Chim Sicurezza, Piazzale Aldo Moro 5, PO Box 34, Posta 62, IT-00185 Roma, Italy

*Rapid Commun Mass Spectrom* 2004 **18** (17) 1989

Determination of free fatty acids in chocolate by liquid chromatography with tandem mass spectrometry

Shannon RA, Probert-Smith PJ, Lines J, Mayia F// Univ Oxford, Dept Engn Sci, Parks Rd, Oxford, OX1 3PJ, England  
*Food Res Int* 2004 **37** (6) 611

Ultrasound velocity measurement to determine lipid content in salmon muscle: The effects of myosepta

Sikorska E, Romaniuk A, Khmelinskii IV, Herance R, Bourdelande JL, Sikorski M, Koziol J// Poznan Univ Econ, Fac Commod Sci, al Niepodleglosci 10, PL-60967 Poznan, Poland  
*J Fluoresc* 2004 **14** (1) 25

Characterization of edible oils using total luminescence spectroscopy

Ulu H// Hacettepe Univ, Fac Engr, Dept Food Engr, Beytepe Campus, TR-06532 Ankara, Turkey  
*Meat Sci* 2004 **67** (4) 683

Evaluation of three 2-thiobarbituric acid methods for the measurement of lipid oxidation in various meats and meat products

## 6. Vitamins & co-factors

Buszewski B, Krupczynska K, Bazylak G// Nicholas Copernicus Univ, Fac Chem, Dept Environm Chem & Ecoanal, 7 Gagarin St, PL-87100 Torun, Poland

*Comb Chem High Throughput Scr* 2004 **7** (4) 383

Effect of stationary phase structure on retention and selectivity tuning in the high-throughput separation of tocopherol isomers by HPLC

Chatzimichalakis PF, Samanidou VF, Papadoyannis IN// \*Aristotle Univ Thessaloniki, Dept Chem, Analyt Chem Lab, GR-54124 Thessaloniki, Greece  
*J Chromatogr B* 2004 **805** (2) 289

Development of a validated liquid chromatography method for the simultaneous determination of eight fat-soluble vitamins in biological fluids after solid-phase extraction

Mata-Granados JM, Luque de Castro MD\*, Quesada JM// \*Univ Cordoba, Dept Analyt Chem, Campus Rabanales, Annex C-3, ES-14071 Cordoba, Spain  
*J Pharm Biomed Anal* 2004 **35** (3) 575

Fully automated method for the determination of 24,25(OH)<sub>2</sub> and 25(OH)D<sub>3</sub> hydroxyvitamins, and vitamins A and E in human serum by HPLC

Realini CE, Duckett SK\*, Windham WR// \*Univ Georgia, Dept Anim & Dairy Sci, 206 Edgar L Rhodes Ctr, Athens, Ga 30602, USA  
*Meat Sci* 2004 **68** (1) 35

Effect of vitamin C addition to ground beef from grass-fed or grain-fed sources on color and lipid stability, and prediction of fatty acid composition by near-infrared reflectance analysis

Rychlik M// Tech Univ Munich, Lehrstuhl Lebensmittelchem, Lichtenberg Str 4, DE-85748 Garching, Germany  
*J Food Compos Anal* 2004 **17** (3-4) 475

Revised folate content of foods determined by stable isotope dilution assays

## 7. Trace elements & minerals

Cocchi M, Franchini G, Manzini D, Manfredini M\*, Marchetti A, Ulrici A// \*Univ Modena & Reggio Emilia, Dept Chem, Via G Campi 183, IT-41100 Modena, Italy

*J Agric Food Chem* 2004 **52** (13) 4047

A chemometric approach to the comparison of different sample treatments for metals determination by atomic absorption spectroscopy in Aceto Balsamico Tradizionale di Modena

Duco G, La Pera L, Giuffrida D, Salvo F, Lo Turco V// Univ Messina, Dept Organ & Biol Chem, Salita Sperone 31, IT-98166 Messina, Italy  
*Food Chem* 2004 **88** (1) 135

Influence of the olive variety and the zone of provenience on selenium content determined by cathodic stripping potentiometry (CSP) in virgin olive oils

Lv JG, Zhang ZJ\*// \*Shaanxi Normal Univ, Sch Chem & Mat Sci,

CN-710062 Xian, Peoples Rep China

*Anal Lett* 2004 **37** (7) 1401

A microchip with air sampling and chemiluminescence detection for analyzing iron in nature water and in whole blood

Pavlovic I, Sikiric M, Havranek JL, Plavljancic N, Brajenovic N\*// \*Rudjer Boskovic Inst, Bijenicka cesta 54, POB 180, HR-10002 Zagreb, Croatia  
*Czech J Anim Sci* 2004 **49** (4) 164

Lead and cadmium levels in raw cow's milk from an industrialised Croatian region determined by electrothermal atomic absorption spectrometry

Randa Z, Kucera J// Acad Sci Czech Republic, Inst Nucl Phys, CZ-25068 Rez, Czech Republic

*J Radioanal Nucl Chem* 2004 **259** (1) 99

Trace elements in higher fungi (mushrooms) determined by activation analysis

Szlyk E, Szydłowska-Czerniak A\*// \*Nicholas Copernicus Univ, Fac Chem, PL-87100 Torun, Poland

*J Agric Food Chem* 2004 **52** (13) 4064

Determination of cadmium, lead, and copper in margarines and butters by galvanostatic stripping chronopotentiometry

Zhao T, Zhang JY, Cheng XG, Chen XG, Hu ZD\*// \*Lanzhou Univ, Dept Chem, CN-730000 Lanzhou, Peoples Rep China

*J Agric Food Chem* 2004 **52** (12) 3688

Sensitive determination of sulfate in drinks and vegetables digests by Rayleigh light scattering technique

## 8. Drug, biocide & processing residues

Bogusz MJ, Hassan H, Al-Enazi E, Ibrahim Z, Al-Tufail M// King Faisal Specialist Hosp & Res Ctr, POB 3354, SA-11211 Riyadh, Saudi Arabia

*J Chromatogr B* 2004 **807** (2) 343

Rapid determination of chloramphenicol and its glucuronide in food products by liquid chromatography-electrospray negative ionization tandem mass spectrometry

Casajuana N, Lacorte S\*// \*IIQAB - CSIC, Dept Environm Chem, Jordi Girona 18-26, ES-08034 Barcelona, Spain

*J Agric Food Chem* 2004 **52** (12) 3702

New methodology for the determination of phthalate esters, bisphenol A, bisphenol A diglycidyl ether, and nonylphenol in commercial whole milk samples

Casal S, Mendes E, Fernandes JO, Oliveira MBPP, Ferreira MA// Univ Porto, Fac Farm, Serv Bromatol, REQUIMTE, Rua Anibal Cunha 164, PT-4099-030 Oporto, Portugal

*J Chromatogr A* 2004 **1040** (1) 105

Analysis of heterocyclic aromatic amines in foods by gas chromatography-mass spectrometry as their tert-butylidimethylsilyl derivatives

Chawla SP, Thomas P// Bhabha Atom Res Ctr, Food Technol Div, IN-400085 Mumbai, India

*Int J Food Sci Technol* 2004 **39** (6) 653

Identification of irradiated meat using electron spin resonance spectroscopy: Results of blind trials

Hajou RMK, Afifi FU, Battah AH// Univ Jordan, Fac Pharm, Amman, Jordan  
*Food Chem* 2004 **88** (3) 469

Comparative determination of multi-pesticide residues in *Pimpinella anisum* using two different AOAC methods

Hong J, Kim HY, Kim DG, Seo J, Kim KJ// Korea Basic Sci Inst, Hazardous Subst Res Team, Anam 5 Ga, Seoul 136 701, South Korea

*J Chromatogr A* 2004 **1038** (1-2) 27

Rapid determination of chlorinated pesticides in fish by freezing-lipid filtration, solid-phase extraction and gas chromatography-mass spectrometry

Lagalante AF, Felter MA// Villanova Univ, Dept Chem, 800 Lancaster Ave, Villanova, Pa 19085, USA

*J Agric Food Chem* 2004 **52** (12) 3744

Silylation of acrylamide for analysis by solid-phase microextraction/gas chromatography/ion-trap mass spectrometry

Lasrado JA, Santerre CR\*, Stahl JR, Noltemeyer T, Deardorff D// \*Purdue Univ, Dept Foods & Nutr, Stone Hall, Room 205, 700 West State St, West Lafayette, In 47907, USA

*J Food Prot* 2004 **67** (6) 1209

Measurement of polychlorinated biphenyls in fish tissue by gas chromatography with electron capture detection and enzyme-linked immunosorbent assay

Mortier L, Daeseleire E, Huet AC, Delahaut P, Van Peteghem C// Ministry Flemish Commun, Agr Res Ctr Ghent, Dept Anim Prod Qual & Transformation Technol, Brusselssesteenweg 370, BE-9090 Melle, Belgium

*Rapid Commun Mass Spectrom* 2004 **18** (16) 1817

Determination of halofuginone in eggs by liquid chromatography/tandem mass spectrometry after cleanup with immunoaffinity chromatography

- Rodriguez-Diaz RC, Aguilar-Caballos MP, Gomez-Hens A\*// \*Univ Cordoba, Dept Analyt Chem, Anexo C-3, Campus Rabanales, ES-14071 Cordoba, Spain  
*Anal Lett* 2004 **37** (6) 1163  
Sensitive determination of fluoroquinolone antibiotics in milk samples using time-resolved methodology
- Shaikh B, Rummel N, Smith D// US FDA/CVM Off Res, 8401 Muirkirk Rd, Laurel, Md 20708, USA  
*Food Addit Contam* 2004 **21** (6) 545  
Determination of <sup>14</sup>C residue in eggs of laying hens administered orally with <sup>14</sup>C sulfaquinoxaline
- Sparring S, Bjorklund E\*// \*Lund Univ, Dept Analyt Chem, POB 124, SE-22100 Lund, Sweden  
*J Chromatogr A* 2004 **1040** (2) 155  
Selective pressurized liquid extraction of polychlorinated biphenyls from fat-containing food and feed samples - Influence of cell dimensions, solvent type, temperature and flush volume
- Taylor JC, Hird SJ, Sykes MD, Startin JR\*// \*Cent Sci Lab, York YO41 1LZ, England  
*Food Addit Contam* 2004 **21** (6) 572  
Determination of residues of propamocarb in wine by liquid chromatography-electrospray mass spectrometry with direct injection
- Tseng SH, Lo YW, Chang PC, Chou SS, Chang HM\*// \*Natl Taiwan Univ, Grad Inst Food Sci & Technol, Taipei 10617, Taiwan  
*J Agric Food Chem* 2004 **52** (13) 4057  
Simultaneous quantification of glyphosate, glufosinate, and their major metabolites in rice and soybean sprouts by gas chromatography with pulsed flame photometric detector
- Yang L, Kotani A, Hakamata H, Kusu F\*// \*Tokyo Univ Pharm & Life Sci, Sch Pharm, 1432-1 Horinouchi, Hachioji, Tokyo 192 0392, Japan  
*Anal Sci* 2004 **20** (1) 199  
Determination of *ortho*-phenylphenol residues in lemon rind by high-performance liquid chromatography with electrochemical detection using a micro-bore column
- Zhang M, Moore GA, Gardiner SJ, Begg EJ// Univ Otago, Christchurch Sch Med & Hlth Sci, Dept Clin Pharmacol, POB 4345, Christchurch, New Zealand  
*J Chromatogr B* 2004 **807** (2) 217  
Determination of rofecoxib in human plasma and breast milk by high-performance liquid chromatographic assay
- ## 9. Toxins/Allergens
- Losito I, Monaci L, Palmisano F\*, Tantillo G// \*Univ Bari, Dipt Chim, Via E Orabona 4, IT-70126 Bari, Italy  
*Rapid Commun Mass Spectrom* 2004 **18** (17) 1965  
Determination of ochratoxin A in meat products by high-performance liquid chromatography coupled to electrospray ionisation sequential mass spectrometry
- Stephan O, Vieths S\*// \*Paul Ehrlich Inst, Dept Allergol, Paul Ehrlich Str 51-59, DE-63225 Langen, Germany  
*J Agric Food Chem* 2004 **52** (12) 3754  
Development of a real-time PCR and a sandwich ELISA for detection of potentially allergenic trace amounts of peanut (*Arachis hypogaea*) in processed foods
- ## 10. Additives
- Abe-Onishi Y, Yomota C\*, Sugimoto N, Kubota H, Tanamoto K// \*Natl Inst Hlth Sci, Div Food Addit, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158 8501, Japan  
*J Chromatogr A* 2004 **1040** (2) 209  
Determination of benzoyl peroxide and benzoic acid in wheat flour by high-performance liquid chromatography and its identification by high-performance liquid chromatography-mass spectrometry
- Hayashi T, Oka H\*, Ito Y, Goto T, Ozeki N, Itakura Y, Matsumoto H, Ohno H, Yoshida K, Miyazawa T, Nagase H// \*Aichi Prefectural Inst Publ Hlth, 7-6 Nagare, Tsuji machi, Kita ku, Nagoya, Aichi 462 8576, Japan  
*J Liq Chromatogr Relat Technol* 2004 **27** (10) 1579  
An HPLC method for the analysis of orange color in food using  $\beta$ -cryptoxanthin as an indicator
- ## 11. Flavours & aromas
- Berna AZ, Lammertyn J, Saevens S, Di Natale C, Nicolai BM// Catholic Univ Louvain, Lab Postharvest Technol, Flanders Ctr, West Croylan 42, BE-3001 Louvain, Belgium  
*Sensor Actuator B Chem* 2004 **97** (2-3) 324  
Electronic nose systems to study shelf life and cultivar effect on tomato aroma profile
- Boselli E, Boulton RB, Thorngate JH, Frega NG// Univ Ancona, Politecn Marche, Dipt Sci Alimenti, Via Brece Bianche, IT-60131 Ancona, Italy  
*J Agric Food Chem* 2004 **52** (12) 3843  
Chemical and sensory characterization of DOC red wines from Marche (Italy) related to vintage and grape cultivars
- Cai ZW, Cheung CY, Ma WT, Au WM, Zhang XY, Lee A// Hong Kong Baptist Univ, Dept Chem, Kowloon, Hong Kong, Peoples Rep China  
*Anal Bioanal Chem* 2004 **378** (3) 827  
Determination of two intact glucosinolates in vegetables and Chinese herbs
- Cavalli JF, Fernandez X, Lizzani-Cuvelier L\*, Loiseau AM// \*Univ Nice Sophia-Antipolis, Fac Sci, Lab Aromes Syntheses & Interactions, Parc Valrose, FR-206108 Nice, France  
*Food Chem* 2004 **88** (1) 151  
Characterization of volatile compounds of French and Spanish virgin olive oils by HS-SPME: Identification of quality-freshness markers
- Kaiser CS, Rompp H, Schmidt PC\*// \*Dept Pharmaceut Technol, Auf der Morgenstelle 8, DE-72076 Tubingen, Germany  
*Phytochem Anal* 2004 **15** (4) 249  
Supercritical carbon dioxide extraction of chamomile flowers: Extraction efficiency, stability, and in-line inclusion of chamomile-carbon dioxide extract in  $\beta$ -cyclodextrin
- Kim NS, Lee DS\*// \*Seoul Womens Univ, Dept Chem, Seoul 139 774, South Korea  
*J Sep Sci* 2004 **27** (1-2) 96  
Headspace solid-phase microextraction for characterization of fragrances of lemon verbena (*Aloysia triphylla*) by gas chromatography-mass spectrometry
- Moon SY, Li-Chan ECY\*// Univ British Columbia, Fac Agr Sci, Food Sci Bldg, 6650 Nth West Marine Dr, Vancouver, British Columbia, Canada V6T 1Z4  
*Food Chem* 2004 **88** (1) 141  
Development of solid-phase microextraction methodology for analysis of headspace volatile compounds in simulated beef flavour
- Morales ML, Benitez B, Troncoso AM\*// \*Univ Sevilla, Fac Farm, Area Nutr & Bromatol, C/ P Garcia Gonzalez s/n 2, ES-41012 Sevilla, Spain  
*Food Chem* 2004 **88** (2) 305  
Accelerated aging of wine vinegars with oak chips: Evaluation of wood flavour compounds
- Narasimhan S, Vijayakumar M, Mehrotra S\*// \*Natl Bot Res Inst, Pharmacognosy & Ethnopharmacol Div, POB 436, IN-226001 Lucknow, India  
*J Planar Chromatogr Mod TLC* 2003 **16** (6) 468  
A new spray reagent for detection and differentiation of sulfur compounds in plant extracts
- Szoke E, Maday E, Gershenzon J, Allen JL, Lemberkovic E// Semmelweis Univ Med, Dept Pharmacognosy, Ulloi ut 26, HU-1085 Budapest, Hungary  
*J Chromatogr Sci* 2004 **42** (5) 229  
 $\beta$ -Eudesmol, a new sesquiterpene component in intact and organized root of chamomile (*Chamomilla recutita*)
- Wang L, Xu Y\*, Zhao G, Li J// \*Sthn Yangtze Univ, Sch Biotechnol, Dept Brewing Sci, 170 Huihe Rd, CN-214036 Wuxi, Peoples Rep China  
*J Inst Brew* 2004 **110** (1) 57  
Rapid analysis of flavor volatiles in apple wine using headspace solid-phase microextraction
- Williams OJ, Raghavan GSV, Orsat V\*, Dai JM// \*McGill Univ, Dept Agr & Biosyst Engn, Macdonald Campus, 21 111 Lakeshore Rd, Ste Anne de Bellevue, Quebec, Canada H9X 3V9  
*J Food Biochem* 2004 **28** (2) 113  
Microwave-assisted extraction of capsaicinoids from capsicum fruit
- Zhang XZ, Liang XM\*, Xiao HB, Xu Q// \*Chinese Acad Sci, Dalian Inst Chem Phys, Grp Pharmaceut Chem, 161 Zhongshan Rd, CN-116011 Dalian, Peoples Rep China  
*J Am Soc Mass Spectrom* 2004 **15** (2) 180  
Direct characterization of bitter acids in a crude hop extract by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry
- ## 13. Animal products
- Bertram HC, Whittaker AK, Andersen HJ, Karlsson AH// Res Ctr Foulum, Danish Inst Agr Sci, Dept Food Sci, POB 50, DK-8830 Tjele, Denmark  
*Int J Food Sci Technol* 2004 **39** (6) 661  
The use of simultaneous <sup>1</sup>H & <sup>31</sup>P magic angle spinning nuclear magnetic res-

onance measurements to characterize energy metabolism during the conversion of muscle to meat

Kusama T, Nomura T, Kadowaki K// Fertilizer & Feed Inspect Serv, 2-1 Shintoshin, Saitama 330 9733, Japan  
*J Food Prot* 2004 **67** (6) 1289

Development of primers for detection of meat and bone meal in ruminant feed and identification of the animal of origin

Listrat A, Hocquette JF// INRA, Herbivore Res Unit, Clermont Ferrand Theix Res Ctr, FR-63122 St Genes Champanelle, France  
*Meat Sci* 2004 **68** (1) 127

Analytical limits of total and insoluble collagen content measurements and of type I and III collagen analysis by electrophoresis in bovine muscles

## 14. Plant & microbial products

Apers S, Naessens T, Van Den Steen K, Cuyckens F, Claeys M, Pieters L, Vlietinck A// Univ Instelling Antwerp, Dept Pharmaceut Sci, Universiteitspl 1, BE-2610 Antwerp, Belgium

*J Chromatogr A* 2004 **1038** (1-2) 107

Fast high-performance liquid chromatography method for quality control of soy extracts

Arts MJTJ, Dallinga JS, Voss HP, Haenen GRMM, Bast A// Maastricht Univ, Fac Med, Dept Pharmacol & Toxicol, PO Box 616, NL-6200 MD Maastricht, The Netherlands

*Food Chem* 2004 **88** (4) 567

A new approach to assess the total antioxidant capacity using the TEAC assay

Azevedo-Meleiro CH, Rodriguez-Amaya DB// \*Univ Estadual Campinas, Fac Engn Alimentos, Dept Ciencia Alimentos, CP 6121, BR-13083-970 Campinas, SP, Brazil

*J Food Compos Anal* 2004 **17** (3-4) 385

Confirmation of the identity of the carotenoids of tropical fruits by HPLC-DAD and HPLC-MS

Bonetti A, Marotti I, Catizone P, Dinelli G, Maietti A, Tedeschi P, Brandolini V// \*Univ Ferrara, Dept Pharmaceut Sci, Via Fossato Mortara 17-19, IT-44100 Ferrara, Italy

*J Agric Food Chem* 2004 **52** (13) 4080

Compared use of HPLC and FZCE for cluster analysis of *Triticum* spp and for the identification of *T. durum* adulteration

Breithaupt DE// Univ Hohenheim, Inst Lebensmittelchem, Garbenstr 28, DE-70599 Stuttgart, Germany

*J Agric Food Chem* 2004 **52** (12) 3870

Identification and quantification of astaxanthin esters in shrimp (*Pandalus borealis*) and in a microalga (*Haematococcus pluvialis*) by liquid chromatography mass spectrometry using negative ion atmospheric pressure chemical ionization

Breithaupt DE, Weller P, Wolters M, Hahn A// Address as above

*Br J Nutr* 2004 **91** (5) 707

Comparison of plasma responses in human subjects after the ingestion of 3R,3R'-zeaxanthin dipalmitate from wolfberry (*Lycium barbarum*) and non-esterified 3R,3R'-zeaxanthin using chiral high-performance liquid chromatography

Cao XL, Lewis JR, Ito Y// \*NIH/NHLI, Lab Biophys Chem, Bldg 50, Rm 3334, Bethesda, Md 20892, USA

*J Liq Chromatogr Relat Technol* 2004 **27** (12) 1893

Application of high-speed countercurrent chromatography to the separation of black tea theaflavins

Flamini R, Vedova AD// Inst Sperimentale Viticoltura, Lab Chim, Viale XXVIII Aprile 26, IT-26-31015 Conegliano, TV, Italy

*Rapid Commun Mass Spectrom* 2004 **18** (17) 1925

Fast determination of the total free resveratrol content in wine by direct-exposure-probe, positive-ion chemical ionization and collision-induced-dissociation mass spectrometry

Fukushima RS, Hatfield RD// Univ Sao Paulo, Fac Med Vet & Zootecnia, Avda Duque Caxias Norte 225, BR-13635-900 Pirassununga, SP, Brazil  
*J Agric Food Chem* 2004 **52** (12) 3713

Comparison of the acetyl bromide spectrophotometric method with other analytical lignin methods for determining lignin concentration in forage samples

Klejdus B, Vacek J, Adam V, Zehnalek J, Kizek R, Trnkova L, Kuban V// \*Mendel Univ Agr & Forestry, Dept Chem & Biochem, Zemedelska 1, CZ-61300 Brno, Czech Republic

*J Chromatogr B* 2004 **806** (2) 101

Determination of isoflavones in soybean food anal human urine using liquid chromatography with electrochemical detection

Lau LT, Collins RA, Yiu SH, Xing J, Yu ACH// \*Hong Kong DNA Chips Ltd, Cosmos Ctr, 108 Soy St, Kowloon, Hong Kong, Peoples Rep China

*Food Control* 2004 **15** (6) 471

Detection and characterization of recombinant DNA in the Roundup Ready® soybean insert

MacKenzie WM, Aylott RI// Diageo plc, Brand Tech Ctr, Menstrie FK11 7ES, Clackmannanshire, Scotland

*Analyst* 2004 **129** (7) 607

Analytical strategies to confirm Scotch whisky authenticity. Part II: Mobile brand authentication

Miller WM, Zude-Sasse M// 700 Expt Stn Rd, Lake Alfred, FL 33850, USA

*Appl Eng Agric* 2004 **20** (3) 321

NIR-based sensing to measure soluble solids content of Florida citrus

Mirabes C// Harinera La Meta SA, C/ Industria Parc 204-R, Pol Ind El Segre, ES-25199 Lleida, Spain

*Food Chem* 2004 **88** (4) 621

Quality control in the milling industry using near infrared transmittance spectroscopy

Nieuwoudt HH, Prior BA, Pretorius IS, Manley M, Bauer FF// Univ Stellenbosch, Inst Wine Biotechnol, Dept Viticulture & Oenol, Private Bag X1, ZA-7602 Stellenbosch, Rep Sth Africa

*J Agric Food Chem* 2004 **52** (12) 3726

Principal component analysis applied to Fourier transform infrared spectroscopy for the design of calibration sets for glycerol prediction models in wine and for the detection and classification of outlier samples

Nilsson M, Duarte IF, Almeida C, Delgadillo I, Goodfellow BJ, Gil AM\*, Morris GA// \*Univ Aveiro, Dept Quim, PT-3810193, Aveiro, Portugal

*J Agric Food Chem* 2004 **52** (12) 3736

High-resolution NMR and diffusion-ordered spectroscopy of port wine

Papagiannopoulos M, Wollseifen HR, Mellenthin A, Haber B, Galensa R// Univ Bonn, Dept Food Sci & Food Chem, Endenicher Allee 11-13, DE-53115 Bonn, Germany

*J Agric Food Chem* 2004 **52** (12) 3784

Identification and quantification of polyphenols in carob fruits (*Ceratonia siliqua* L.) and derived products by HPLC-UV-ESI/MS<sup>n</sup>

Parejo I, Jauregui O, Sanchez-Rabaneda F, Viladomat F, Bastida J, Codina C// \*Univ Barcelona, Fac Farm, Dept Nat Prod, Avda Joan XXIII s/n, ES-08028 Barcelona, Spain

*J Agric Food Chem* 2004 **52** (12) 3679

Separation and characterization of phenolic compounds in fennel (*Foeniculum vulgare*) using liquid chromatography-negative electrospray ionization tandem mass spectrometry

Sang SM, Tian SY, Stark RE, Yang CS, Ho CT// Rutgers State Univ, Ernest Mario Sch Pharm, Dept Biol Chem, 164 Frelinghuysen Rd, Piscataway, NJ 08854, USA

*Bioorg Med Chem* 2004 **12** (11) 3009

New dibenzotropolone derivatives characterized from black tea using LC/MS/MS

Schutz K, Kammerer D, Carle R, Schieber A// \*Univ Hohenheim, Inst Food Technol, Sect Plant Foodstuff Technol, August von Hartmann Str 3, DE-70599 Stuttgart, Germany

*J Agric Food Chem* 2004 **52** (13) 4090

Identification and quantification of caffeoylquinic acids and flavonoids from artichoke (*Cynara scolymus* L.) heads, juice, and pomace by HPLC-DAD-ESI/MS<sup>n</sup>

Silva FO, Ferraz V// Univ Fed Minas Gerais, Dept Quim, Avda Antonio Carlos 6627, BR-31270-901 Belo Horizonte, MG, Brazil

*Food Chem* 2004 **88** (4) 609

Microwave-assisted preparation of sugars and organic acids for simultaneous determination in citric fruits by gas chromatography

Sladkovsky R, Solich P\*, Urbanek M// \*Charles University, Faculty Pharm, Dept Analyt Chem, Heyrovskeho 1203, CZ-50005 Hradec Kralove, Czech Republic

*J Chromatogr A* 2004 **1040** (2) 179

High-performance liquid chromatography determination of phenolic components in wine using off-line isotachophoretic pretreatment

Wu SH, Sun CR, Pei SF, Lu YB, Pan YJ// \*Zhejiang Univ, Dept Chem, Yuquan Campus, CN-310027 Hangzhou, Peoples Rep China

*J Chromatogr A* 2004 **1040** (2) 193

Preparative isolation and purification of amides from the fruits of *Piper longum* L. by upright counter-current chromatography and reversed-phase liquid chromatography

Zhou J, Cui H\*, Wan G, Xu H, Pang Y, Duan C// \*Univ Sci & Technol China, Dept Chem, Jin Zhai Rd 96, CN-230026 Hefei, Anhui, Peoples Rep China

*Food Chem* 2004 **88** (4) 613

Direct analysis of *trans*-resveratrol in red wine by high performance liquid chromatography with chemiluminescent detection