

Bibliography of analytical, nutritional and clinical methods

(2 weeks journals. Search completed at 3rd. Sept. 2003)

1. Books, reviews & symposia

Moatsou G, Anifantakis E// Agr Univ Athens, Dept Food Sci & Technol, Lab Dairy Technol, Iero Odos 75, GR-11855 Athens, Greece
Int J Dairy Technol 2003 **56** (3) 133
Recent developments in antibody-based analytical methods for the differentiation of milk from different species (Review)

3. Amino acids, proteins & enzymes

Turhan KN, Barbano DM, Etzel MR// *Mersin Univ, Dept Food Engn, Mersin, Turkey
J Food Sci 2003 **68** (5) 1578
Fractionation of caseins by anion-exchange chromatography using food-grade buffers

5. Lipids

Busconi M, Foroni C, Corradi M, Bongiorno C, Cattapan F, Fogher C// *Univ Cattolica S Cuore, Inst Bot & Genet Vegetale, Via E Parmense 84, Piacenza, Italy
Food Chem 2003 **83** (1) 127
DNA extraction from olive oil and its use in the identification of the production cultivar

Jham GN, Nikolova-Damyavova B, Viera M, Natalino R, Rodrigues AC// Univ Fed Vicosa, Dept Quim, Lab Pesquisas Prod Naturais, BR-36570-000 Vicosa, MG, Brazil

Phytochem Anal 2003 **14** (5) 310
Determination of the triacylglycerol composition of coffee beans by reverse-phase high-performance liquid chromatography

Li J, Peng T*, Peng Y// *Zhejiang Univ, Dept Chem, Xixi Campus, CN-310028 Hangzhou, Peoples Rep China
Electroanalysis 2003 **15** (12) 1031

A cholesterol biosensor based on entrapment of cholesterol oxidase in a silicic sol-gel matrix at a Prussian Blue modified electrode

Priego-Lopez E, Velasco J, Dobarganes MC, Ramis-Ramos G, Luque de Castro MD// *Analyt Chem Div, Annex C-3, Campus Rabanales, ES-14071 Cordoba, Spain
Food Chem 2003 **83** (1) 143

Focused microwave-assisted Soxhlet extraction: An expeditive approach for the isolation of lipids from sausage products

6. Vitamins & co-factors

Li Y, Brown PR// *Univ Rhode Isl, Dept Chem, Kingston, RI 02881, USA
J Liq Chromatogr Relat Technol 2003 **26** (11) 1769
On-line detection for the HPLC analysis of water-soluble vitamins in multivitamin tablets

Tang B, Wang Y, Du M, Ge JC, Chen ZZ// Shandong Normal Univ, Dept Chem, CN-250014 Jinan, Peoples Rep China
J Agric Food Chem 2003 **51** (15) 4198

Catalytic spectrophotometric determination of ascorbic acid in tea drink with 1,5-bis(*p*-hydroxybenzaldene)thiocarbohydrazone as the substrate for horseradish peroxidase

7. Trace elements & minerals

Milstein LS, Essader A, Murrell C, Pellizzari ED, Fernando RA, Raymer JH, Akinbo O// RTI Int, 3040 Cornwallis Rd, Res Triangle Pk, NC 27709, USA
J Agric Food Chem 2003 **51** (15) 4180
Sample preparation, extraction efficiency, and determination of six arsenic species present in food composites

Perring L, Andrey D// Nestle Res Ctr, Dept Qual & Safety Assurance, Vers-chez-les-Blanc, CH-1000 Lausanne 26, Switzerland
J Agric Food Chem 2003 **51** (15) 4207
ED-XRF as a tool for rapid minerals control in milk-based products

Riganakos KA, Veltsistas PG// Univ Ioannina, Dept Chem, Lab Food Chem, GR-45110 Ioannina, Greece
Food Chem 2003 **82** (4) 637

Comparative spectrophotometric determination of the total iron content in various white and red Greek wines

Roberge MT, Borgerding AJ, Finley JW// *USDA/ARS, Grand Forks Human Nutr Res Ctr, Grand Forks, Nd 58202, USA
J Agric Food Chem 2003 **51** (15) 4191

Speciation of selenium compounds from high selenium broccoli is affected by the extracting solution

Simsek A, Korkmaz D, Velioglu YS*, Ataman OY// *Ankara Univ, Fac Agric, Dept Food Engn, TR-06110 Diskapi, Ankara, Turkey
Food Chem 2003 **83** (2) 293

Determination of boron in hazelnut (*Corylus avellana* L.) varieties by inductively coupled plasma optical emission spectrometry and spectrophotometry

8. Drug, biocide & processing residues

Bogialli S, Curini R, Di Corcia A*, Nazzari M, Polci ML// *Univ Roma La Sapienza, Dipt Chim, P A Moro 5, IT-00185 Rome, Italy
J Agric Food Chem 2003 **51** (15) 4225

Rapid confirmatory assay for determining 12 sulfonamide antimicrobials in milk and eggs by matrix solid-phase dispersion and liquid chromatography-mass spectrometry

Manjubhashini AB, Raman GK, Kumar AS// *Sri Venkateswara Univ, USIC, IN-517 502 Tirupati, India
Int J Food Sci Technol 2003 **38** (6) 741

Spectrophotometric determination of carbaryl in its formulations, waters and food grains

Martinez-Vidal JL, Belmonte-Vega A, Arrebola FJ, Gonzalez-Rodriguez MJ, Morales-Sanchez MC, Garrido-Frenich A// Univ Almeria, Dept Anal Chem, ES-04120 Almeria, Spain
Rapid Commun Mass Spectrom 2003 **17** (18) 2099

Trace determination of organotin compounds in water, sediment and mussel samples by low-pressure gas chromatography coupled to tandem mass spectrometry

Polat M, Korkmaz M// Univ Hacettepe, Dept Engn Phys, TR-06100 Ankara, Turkey
Int J Food Sci Technol 2003 **38** (6) 641

ESR detection of irradiated broad bean (*Vicia faba* L.) and kinetics of the radiation induced free radical and Mn²⁺ signals

Polat M, Korkmaz M// Address as above
Int J Food Sci Technol 2003 **38** (6) 653
Use of electron spin resonance technique for the detection of irradiated rice

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.

seeds (*Oryza sativa* L)

Sancho JV, Pozo OJ, Zamora T, Grimalt S, Hernandez F*// *Univ Jaume I, Dept Expt Sci, ES-12071 Castellon, Spain
J Agric Food Chem 2003 **51** (15) 4202
Direct determination of paclobutrazol residues in pear samples by liquid chromatography-electrospray tandem mass spectrometry

9. Toxins/Allergens

Blay PKS, Brombacher S, Volmer DA*// *Inst Marine Biosci, Natl Res Council, 1411 Oxford St, Halifax, Nova Scotia, Canada B3H 3Z1
Rapid Commun Mass Spectrom 2003 **17** (18) 2153
Studies on azaspiracid biotoxins. III. Instrumental validation for rapid quantification of AZA 1 in complex biological matrices

Takino M, Daishima S, Nakahara T// Yokogawa Anal Syst Inc, 2-11-13 Nakacho, Musashino-shi, Tokyo 180 0006, Japan
Rapid Commun Mass Spectrom 2003 **17** (17) 1965
Liquid chromatography/mass spectrometric determination of patulin in apple juice using atmospheric pressure photoionization

Wang Q, Yu H, Li H, Ding F, He P, Fang Y*// *East China Normal Univ, Dept Chem, CN-200062 Shanghai, China
Food Chem 2003 **83** (2) 311
Simultaneous determination of food-related biogenic amines and precursor amino acids by micellar electrokinetic capillary chromatography with electrochemical detection

10. Additives

Filho JC, Santini AO, Nasser ALM, Pezza HR, De Oliveira JE, Melios CB, Pezza L*// *UNESP, Inst Quim, CP 355, BR-14801-970 Araraquara, SP, Brazil
Food Chem 2003 **83** (2) 297
Potentiometric determination of saccharin in commercial artificial sweeteners using a silver electrode

11. Flavours & aromas

Flamini G, Morelli I, Piacenza L// Dipt Chim Bioorgan & Biofarm, Via Bonanno 33, IR-56126 Pisa, Italy
Phytochem Anal 2003 **14** (5) 325
Archaeobotanic evidence of the Preincaic Chiribaya culture. Determination of capsainoids in archaeological samples of *Capsicum frutescens* and votive foods

Gonzalez-Rodriguez J, Perez-Juan P, Luque de Castro MD*// *Univ Cordoba, Dept Analyt Chem, Campus Rabanales, Annex C-3, ES-14071 Cordoba, Spain
Chromatographia 2003 **57** (5-6) 363
Extraction of wood compounds by use of subcritical fluids

Goodridge CF, Beaudry RM, Pestka JJ, Smith DM// Michigan State Univ, Dept Food Sci & Human Nutr, East Lansing, MI 48824, USA
J Agric Food Chem 2003 **51** (15) 4185
Solid phase microextraction-gas chromatography for quantifying headspace hexanal above freeze-dried chicken myofibrils

Kim TH, Lee SM, Kim YS, Kim KH, Oh S, Lee HJ*// *Seoul Nat Univ, Sch Agr Biotechnol, Dept Food Sci & Technol, Suwon 441-744, South Korea
Food Chem 2003 **83** (1) 151
Aroma dilution method using GC injector split ratio for volatile compounds extracted by headspace solid phase microextraction

Martins SIFS, Van Boekel MAJS*// *Wageningen Univ, Dept Agrotechnol & Food Sci, Prod Design & Qual Management Grp, PO Box 8129, NL-6700 EV Wageningen, The Netherlands
Food Chem 2003 **83** (1) 135
Melanoidins extinction coefficient in the glucose/glycine Maillard reaction

Serot T, Lafficher C// IFREMER Ctr Nantes, Lab Gene Alimentaire, rue de l'Ile d'Yeu, BP 21105, FR-44311 Nantes 3, France
Food Chem 2003 **82** (4) 513
Optimisation of solid-phase microextraction coupled to gas chromatography for determination of phenolic compounds in smoked herring

Steuer B, Schulz H*// *Fed Ctr Breeding Res Cultivated Plants, Inst Plant Anal, Neuer Weg 22/23, DE-06484 Quedlinburg, Germany
Phytochem Anal 2003 **14** (5) 285
Near-infrared analysis of fennel (*Foeniculum vulgare* Miller) on different spectrometers: Basic considerations for a reliable network

13. Animal products

Padovan GJ, De Jong D, Rodrigues LP, Marchini JS*// *Clin Med Dept, Nutr

Sect, Mass Spectrom Lab, BR-14049-900 Ribeirao Preto, SP, Brazil
Food Chem 2003 **82** (4) 633
Detection of adulteration of commercial honey samples by the ¹³C/¹²C isotopic ratio

Verma N, Sing M// Punjabi Univ, Dept Biotechnol, IN-147002 Patiala, PB, India
Biosens Bioelectron 2003 **18** (10) 1219
A disposable microbial based biosensor for quality control in milk

14. Plant & microbial products

Bennetau-Pelissero C, Arnal-Schnebel B, Lamothe V, Sauvant P, Sagne JL, Verbruggen MA, Mathey J, Lavielle O// ENITA Bordeaux, 1 Cours Gen de Gaulle, FR-33175 Gradignan, France
Food Chem 2003 **82** (4) 645
ELISA as a new method to measure genistein and daidzein in food and human fluids

Cuyckens F, Shahat AA, Van den Heuvel H, Abdel-Shafeek KA, El-Messiry MM, Seif-El Nasr MM, Pieters L, Vlietinck AJ, Claeys M*// *University Antwerp, Department Pharmaceut Sci, Universiteitsplein 1, BE-2610 Antwerp, Belgium
Eur J Mass Spectrom 2003 **9** (4) 409
The application of liquid chromatography-electrospray ionization mass spectrometry and collision-induced dissociation in the structural characterization of acylated flavonol O-glycosides from the seeds of *Carrichtera annua*

De Prada AGV, Pena N, Mena ML, Reviejo AJ, Pingarron JM*// *Univ Madrid, Fac Chem, Dept Analyt Chem, ES-28040 Madrid, Spain
Biosens Bioelectron 2003 **18** (10) 1279
Graphite-Teflon composite bienzyme amperometric biosensors for monitoring of alcohols

Herman L, Block JD, Viane R// State Univ Ghent, Dept Biol, BE-9000 Ghent, Belgium
Int J Food Sci Technol 2003 **38** (6) 633
Detection of hazelnut DNA traces in chocolate by PCR

Jawaheer S, White SF, Rughooputh SDDV, Cullen DC// Cranfield Univ Silsoe, Cranfield Biotechnol Ctr, Silsoe MK45 4DT, England
Biosens Bioelectron 2003 **18** (12) 1429
Development of a common biosensor format for an enzyme based biosensor array to monitor fruit quality

Kilmartin PA, Hsu CF// Univ Auckland, Dept Chem, Food Sci Programme, Private Bag 92019, Auckland, New Zealand
Food Chem 2003 **82** (4) 501
Characterisation of polyphenols in green, oolong, and black teas, and in coffee, using cyclic voltammetry

Krahulcova J, Pangallo D, Pknova L, Siekel P, Kuchta T*// *Food Res Inst, Priemyselna 4, POB 25, SK-82475 Bratislava 26, Slovakia
Eur Food Res Technol 2003 **217** (1) 80
Polymerase chain reaction for the detection of *Phaseolus vulgaris* beans in chestnut puree

Melendez-Martinez AJ, Vicario IM, Heredia FJ*// *Univ Sevilla, Fac Pharm, Dept Nutr & Food Sci, ES-41012 Seville, Spain
J Agric Food Chem 2003 **51** (15) 4219
A routine high-performance liquid chromatography method for carotenoid determination in ultrafrozen orange juices

Nurmi T, Heinonen S, Mazur W, Deyama T, Nishibe S, Adlercreutz H// Univ Helsinki, Folkhalsan Res Ctr & Dept Clin Chem, Biomedicum, PB 63, FI-00014 Helsinki, Finland
Food Chem 2003 **83** (2) 303
Lignans in selected wines

Petit L, Baraige F, Balois AM, Bertheau Y, Fach P*// *Agcy Francaise Securite Sanitaire Aliments, Lab Etud & Rech Hyg & Qual Aliments, FR-94700 Maisons Alfort, France
Eur Food Res Technol 2003 **217** (1) 83
Screening of genetically modified organisms and specific detection of Bt176 maize in flours and starches by PCR-enzyme linked immunosorbent assay

Prasain JK, Jones K, Kirk M, Wilson L, Smith-Johnson M, Weaver C, Barnes S*// *Univ Alabama, Dept Pharmacol & Toxicol, Room 602, Kaul Human Genet Bldg, 720 20th St Sth, Birmingham, AL 35294, USA
J Agric Food Chem 2003 **51** (15) 4213
Profiling and quantification of isoflavonoids in kudzu dietary supplements by high-performance liquid chromatography and electrospray ionization tandem mass spectrometry

Tian Q, Duncan CJG, Schwartz SJ*// *Ohio State Univ, Dept Food Sci & Technol, 110 Parker Food Sci & Technol Bldg, 2015 Fyffe Rd, Columbus, OH 43210, USA
J Mass Spectrom 2003 **38** (9) 990
Atmospheric pressure chemical ionization mass spectrometry and in-source fragmentation of lutein esters