

# Bibliography of analytical, nutritional and clinical methods

(2 weeks journals - Search completed at 26th Mar 1997)

## 2 GENERAL

Farkas J, Mohacsi-Farkas C// Univ Hort & Food, Dept Refrigerat & Livestock Prod Technol, H-1118 Budapest, Hungary

*J Therm Anal* 1996 47 (6) 1787

Application of differential scanning calorimetry in food research and food quality assurance

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Anguita G, Martin R, Garcia T\*, Morales P, Haza AI, Gonzalez L, Sanz B, Hernandez PE// \*Univ Complutense Madrid, Dept Nutr & Bromatol, E-28040 Madrid, Spain

*J Food Protect* 1997 60 (1) 64

A competitive enzyme-linked immunosorbent assay for detection of bovine milk in ovine and caprine milk and cheese using a monoclonal antibody against bovine  $\beta$ -casein

Basha SM// Florida A&M Univ, Plant Biotechnol Lab, Tallahassee, FL 32307, USA

*J Agr Food Chem* 1997 45 (2) 400

Separation of peanut proteins by capillary electrophoresis

Camafeita E, Alfonso P, Acevedo B, Mendez E\*// \*Ctr Nacl Biotecnol, Unidad Anal Estruct Protein, Cantoblanco, E-28049 Madrid, Spain

*J Mass Spectrometry* 1997 32 (4) 444

Sample preparation optimization for the analysis of gliadins in food by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry

Cuilliere ML, Abbadi M, Mole C, Montagne P\*, Bene MC, Faure G// \*Fac Med Vandoeuvre les Nancy, Immunol Lab, BP 184, F-54505 Vandoeuvre les Nancy, France

*J Immunoassay* 1997 18 (1) 97

Microparticle-enhanced nephelometric immunoassay of  $\alpha$ -lactalbumin in human milk

Fant F, Vranken WF, Martins JC, Borremans FAM// State Univ Ghent, Biomol NMR Unit, Krijgslaan 281, B-9000 Ghent, Belgium

*Bull Soc Chim Belg* 1997 106 (1) 51

Solution conformation of *Raphanus sativus* antifungal protein 1 (Rs-AFP1) by  $^1\text{H}$  nuclear magnetic resonance assignments, secondary structure and global fold

Lien KA, Sauer WC, Mosenthin R, Souffrant WB\*, Dugan MER// \*Univ Alberta, Dept Agr Food & Nutr Sci, Edmonton, Alberta, Canada T6G 2P5

*J Anim Sci* 1997 75 (1) 148

Evaluation of the  $^{15}\text{N}$ -isotope dilution technique for determining the recovery of endogenous protein in ileal digestion of pigs: Effect of dilution in the precursor pool for endogenous nitrogen secretion

Lien KA, Sauer WC, Dugan MER// c/o Souffrant WB, Address as above.

*J Anim Sci* 1997 75 (1) 159

Evaluation of the  $^{15}\text{N}$ -isotope dilution technique for determining the recovery of endogenous protein in ileal digesta of pigs: Effect of the pattern of blood sampling, precursor pools, and isotope dilution technique

Neucere JN, Cleveland TE// USDA/ARS, Stn Reg Res Ctr, POB 19687, New Orleans, La 70179, USA

*J Agr Food Chem* 1997 45 (2) 299

Antifungal and electrophoretic properties of isolated protein fractions from corn kernels

## 4 CARBOHYDRATES

Chatel S, Voirin A, Artaud J\*// \*Univ Aix Marseille, Lab Anal & Valorisation Biomol, IUT, 142 Traverse C Susini, F-13388 Marseille 13, France

*J Agr Food Chem* 1997 45 (2) 425

Starch identification and determination in sweetened fruit preparations. II. Optimization of dialysis and gelatinization steps, infrared identification of starch chemical modifications

Stumm I, Baltes W// TU Berlin, Inst Lebensmittelchem, Gustav Meyer Allee 25, D-13355 Berlin, Germany

*Food Chem* 1997 59 (2) 291

Analysis of the linkage positions in polydextrose by the reductive cleavage method

Wong KS, Jane J// Iowa State Univ Sci & Technol, Dept Food Sci & Human Nutr, Ames, IA 50011, USA

*J Liq Chromatogr Relat Technol* 1997 20 (2) 297

Quantitative analysis of debranched amylopectin by HPAEC-PAD with a postcolumn enzyme reactor

## 5 LIPIDS

Kaushik N, Agnihotri A// Tata Energy Res Inst, Div Biotechnol, Darbari Seth Block, Habitat Pl Lodi Rd, New Delhi 110003, India

*Chromatographia* 1997 44 (1-2) 97

Evaluation of improved method for determination of rapeseed-mustard FAMEs by GC

Kelly S, Parker I, Sharman M, Dennis J, Goodall I// CSL Food Sci Lab, Norwich Res Pk, Colney, Norwich NR4 7UQ, England

*Food Chem* 1997 59 (2) 181

Assessing the authenticity of single seed vegetable oils using fatty acid stable carbon isotope ratios ( $^{13}\text{C}/^{12}\text{C}$ )

Medvedovici A, David F, Sandra P\*// \*State Univ Ghent, Dept Organ Chem, Krijgslaan 281, B-9000 Ghent, Belgium

*Chromatographia* 1997 44 (1-2) 37

Analysis of sterols in vegetable oils using off-line SFC/capillary GC-MS

Skoglund E, Carlsson NG, Sandberg AS// Chalmers Univ Technol, Dept

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; 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.

Food Sci, SIK Swedish Food Inst, Box 5401, S-40229 Gothenburg, Sweden

*J Agr Food Chem* 1997 **45** (2) 431

Determination of isomers of inositol mono- to hexaphosphates in selected foods and intestinal contents using high-performance ion chromatography

Stashenko EE, Wong JW, Martinez JR, Mateus A, Shibamoto T// Ind Univ Santander, Dept Chem, Phytochem Chromatog Lab, AA 678, Bucaramanga, Colombia

*J Chromatogr A* 1996 **752** (1-2) 209

High-resolution gas chromatography with nitrogen-phosphorous detection of saturated volatile aldehydes derivatized with 2-hydrazinobenzothiazole

## 6 VITAMINS & CO-FACTORS

Helaleh MIH, Qureshi SZ, Rahman N, Jamhour RM// Aligarh Muslim Univ, Analyt Res Div, Aligarh 202002, Uttar Pradesh, India

*Ann Chim-Rome* 1996 **86** (9-10) 509

Spectrophotometric determination of menadione in pure form and injection

Nyalala JO, Livaniou E\*, Leondiadis L, Evangelatos GP, Ithakissios DS// \*NCSR Demokritos, Inst Radioisotopes Radiodiagnost Prod, Radioimmunochem Lab, Athens 15310, Greece

*J Immunassay* 1997 **18** (1) 1

Indirect enzyme-linked method for determining biotin in human serum

Ocke MC, Bueno-Mesquita HB, Feskens EJM, Van Staveren WA, Kromhout D// Natl Inst Publ Hlth & Environm, Dept Chron Dis & Environm Epidemiol, NL-3720 BA Bilthoven, The Netherlands

*Amer J Epidemiol* 1997 **145** (4) 358

Repeated measurements of vegetables, fruits, β-carotene, and vitamins C and E in relation to lung cancer: The Zutphen study

Pfeiffer CM, Rogers LM, Gregory JF\*// \*Univ Florida, Dept Food Sci & Human Nutr, POB 110370, Gainesville, FL 32611, USA

*J Agr Food Chem* 1997 **45** (2) 407

Determination of folate in cereal-grain food products using trienzyme extraction and combined affinity and reversed-phase liquid chromatography

Riso P, Porrini M// Univ Milan, Dipt Sci & Tecnol Alimentari & Microbiol, Via Celoria 2, I-20133 Milan, Italy

*Int J Vitam Nutr Res* 1997 **67** (1) 47

Determination of carotenoids in vegetable foods and plasma

## 7 TRACE ELEMENTS & MINERALS

Adeloju SB, Young TM// Univ Western Sydney Nepean, Ctr Electrochem Res & Analyt Technol, POB 10, Kingswood, NSW 2747, Australia

*Anal Lett* 1997 **30** (1) 147

Assessment of constant current anodic stripping potentiometry for determination of arsenic in fish and water samples

Fukushi K, Takeda S, Wakida S, Higashi K, Hiiro K// Kobe Univ Mercantile Marine, Res Inst Marine Cargo Transportat, Higashinada ku, Kobe, Hyogo 658, Japan

*J Chromatogr A* 1997 **759** (1-2) 211

Determination of free calcium in vegetables by capillary zone electrophoresis

Perez-Olmos R, Herrero R, Lima JLFC, Montenegro MCBSM// Univ Pais Vasco, Dept Quim Anal, Plaza Casilla 3, E-48012 Bilbao, Spain

*Food Chem* 1997 **59** (2) 305

Sequential potentiometric determination of chloride and nitrate in meat products

Stadlober M, Kalcher K\*, Raber G// \*Karl Franzens Univ, Inst Anal Chem, Universitatspl 1, A-8010 Graz, Austria

*Electroanal* 1997 **9** (3) 225

Anodic stripping voltammetric determination of vanadium(V) using a carbon paste electrode modified *in situ* with cetyltrimethylammonium bromide

## 8 DRUG, BIOCIDE & PROCESSING RESIDUES

Komolprasert V, Lawson AR// US/FDA, Div Food Proc & Packaging, 6502 Sth Archer Rd, Summit Argo, IL 60501, USA

*J Agr Food Chem* 1997 **45** (2) 444

Considerations for reuse of poly(ethylene terephthalate) bottles in food packaging: Migration study

Lambert C, Larroque M// Fac Pharm Montpellier, Chim Analyt Lab, Ave Charles Flahault, F-34060 Montpellier, France

*J Chromatogr Sci* 1997 **35** (2) 57

Chromatographic analysis of water and wine samples for phenolic compounds released from food-contact epoxy resins

Metwally MES, Osman MS, Al-Rushaid R// Kuwait Inst Sci Res, Environm Sci Dept, POB 24885, Safat 13109, Kuwait

*Food Chem* 1997 **59** (2) 283

A high-performance liquid chromatographic method for the determination of cypermethrin in vegetables and its application to kinetic studies after greenhouse treatment

Polkowska Z, Namiesnik J\*, Czerwinski J, Zygmunt B// \*Gdansk Tech Univ, Dept Analyt Chem, 11-12 Narutowicza St, PL-80952 Gdansk, Poland

*Int J Food Sci Technol* 1996 **31** (5) 387

Volatile organo-halogen trace analysis in beverages by thin-layer head-space enrichment and electron-capture gas-chromatography

Vetter W, Krock B, Luckas B// Univ Jena, Inst Ernahrung & Umwelt, Dornburger Str 25, D-07743 Jena, Germany

*Chromatographia* 1997 **44** (1-2) 65

Congener specific determination of compounds of technical toxaphene (CTTs) in different Antarctic seal species

## 9 TOXINS

Gardner DR, Manners GD, Ralphs MH, Pfister JA// USDA/ARS, Poisonous Plant Res Lab, 1150 E 1400 N, Logan, UT 84341, USA

*Phytochem Analysis* 1997 **8** (2) 55

Quantitative analysis of norditerpenoid alkaloids in larkspur (*Delphinium* spp.) by Fourier transform infrared spectroscopy

Huopalaiti RP, Ebel J, Henion JD// Cornell Univ, NY State Coll Vet Med, Analyt Toxicol Diagnos Lab, 927 Warren Dr, Ithaca, NY 14850, USA

*J Liq Chromatogr Relat Technol* 1997 **20** (4) 537

Supercritical fluid extraction of mycotoxins from feeds with analysis by LC/UV and LC/MS

## 10 ADDITIVES

Chung MS, Kim NC, Long L, Shamon L, Ahmad WY, Sagreno-Nieves L, Kardono LBS, Kennelly EJ, Pezzuto JM, Soejarto DD, Kinghorn AD\*// \*Univ Illinois Chicago, Coll Pharm, Dept Med Chem Pharmacognosy, Prog Collab Res Pharm Sci, Chicago, IL 60612, USA

*Phytochem Analysis* 1997 **8** (2) 49

Dereplication of saccharide and polyol constituents of candidate sweet-tasting plants: Isolation of the sesquiterpene glycoside mukurozioside IIb as a sweet principle of *Sapindus rarak*

Turquois T, Acquistapace S, Arce-Vera F, Welti DH// Nestec Ltd, Res Ctr, Vers chez les Blanc, POB 44, CH-1000 Lausanne 26, Switzerland

*Carbohydr Polym* 1996 **31** (4) 269

Composition of carrageenan blends inferred from  $^{13}\text{C}$ -NMR and infrared spectroscopic analysis

## 11 FLAVOURS & AROMAS

Bocchi C, Careri M\*, Groppi F, Mangia A, Manini P, Mori G// \*Univ Parma, Dipt Chim Gen & Inorgan Chim Analit Chim, Viale Sci, I-43100 Parma, Italy

*J Chromatogr A* 1996 **753** (2) 157

Comparative investigation of UV, electrochemical and particle beam mass spectrometric detection for the high-performance liquid chromatographic determination of benzoic and cinnamic acids and of their corresponding phenolic acids

Di Natale C, Davide FAM, D'Amico A, Nelli P, Groppelli S, Sberveglieri G// Univ Rome Tor Vergata, Dept Electron Engn, Via Ricerca Scientifica, I-00133 Rome, Italy

*Sensor Actuator B-Chem* 1996 **33** (1-3) 83

An electronic nose for the recognition of the vineyard of a red wine

Gardner JW, Bartlett PN// Univ Warwick, Dept Engn, Coventry CV4 7AL, England

*Sensor Actuator B-Chem* 1996 **33** (1-3) 60

Performance definition and standardization of electronic noses

Haring D, Schreier P, Herderich M\*// \*Univ Wurzburg, Lehrstuhl Lebensmittelchem, Am Hubland, D-97074 Wurzburg, Germany

*J Agr Food Chem* 1997 **45** (2) 369

Rationalizing the origin of solerone (5-oxo-4-hexanolide): Biomimetic synthesis and identification of key metabolites in sherry wine

Mouly PP, Gaydou EM\*, Faure R, Estienne JM// \*Ctr Rech & Valorisat Prod Consommat, Parc Club Aygalades, 35 Blvd Capitaine Geze, F-13333 Marseille 14, France

*J Agr Food Chem* 1997 **45** (2) 373

Blood orange juice authentication using cinnamic acid derivatives. Variety differentiations associated with flavanone glycoside content

Tarantilis PA, Polissiou MG\*// \*Agr Univ Athens, Dept Sci, Lab Gen Chem, 75 Iera Odos, GR-11855 Athens, Greece

*J Agr Food Chem* 1997 **45** (2) 459

Isolation and identification of the aroma components from saffron (*Crocus sativus*)

Valero E, Miranda E, Sanz J, Martinez-Castro I\*// \*CSIC, Inst Quim Organ Gen, Juan Cierva 3, E-28006 Madrid, Spain

*Chromatographia* 1997 **44** (1-2) 59

Automatic thermal desorption in GC analysis of dairy product volatiles

## 13 ANIMAL PRODUCTS

Al-Jowder O, Kemsley EK, Wilson RH// Univ Bahrain, Chem Dept, Isa Town, Bahrain

*Food Chem* 1997 **59** (2) 195

Mid-infrared spectroscopy and authenticity problems in selected meats: A feasibility study

Hofmann K// Bundesanstalt Fleischforsch, Inst Chem & Phys, EC Baumann Str 20, D-95326 Kulmbach, Germany

*Fleischwirtschaft* 1997 **77** (2) 151

Determination of animal species in meat and meat products. II. Communication (German)

Hsieh YHP, Chen FC, Nur M// Auburn Univ, Dept Nutr & Food Sci, Auburn, AL 36849, USA

*J Food Sci* 1997 **62** (1) 15

An hypothesis paper: Rapid species identification of cooked red snapper

using isoelectric focusing

Lee SJ, Jeon IJ\*, Harbers LH// \*Kansas State Univ, Dept Anim Sci & Ind, Manhattan, KS 66506, USA

*J Food Sci* 1997 **62** (1) 53

Near-infrared reflectance spectroscopy for rapid analysis of curds during cheddar cheese making

## 14 PLANT & MICROBIAL PRODUCTS.

Bridle P, Garcia-Viguera C// Inst Food Res, Reading Lab, Earley Gate, Whiteknights Rd, Reading RG6 6BZ, England

*Food Chem* 1997 **59** (2) 299

Analysis of anthocyanins in strawberries and elderberries. A comparison of capillary zone electrophoresis and HPLC

Guillen DA, Merello F, Barroso CG, Perez-Bustamante JA\*// \*Univ Cadiz, Dept Analyt Chem, POB 40, E-11510 Puerto Real, Cadiz, Spain

*J Agr Food Chem* 1997 **45** (2) 403

Solid-phase extraction for sample preparation, in the HPLC analysis of polyphenolic compounds in "fino" sherry wine

Horie H, Mukai T, Kohata K// Natl Res Inst Veget Ornament Plants & Tea, 2769 Kanaya, Shizuoka 428, Japan

*J Chromatogr A* 1997 **758** (2) 332

Simultaneous determination of qualitatively important components in green tea infusions using capillary electrophoresis

Iizuka K, Aishima T// Kikkoman Foods Inc, 399 Noda, Noda, Chiba 278, Japan

*J Food Sci* 1997 **62** (1) 101

Soy sauce classification by geographic region based on NIR spectra and chemometrics pattern recognition

Lu Y, Foo Y// NZ Inst Ind Res & Dev, Gracefield Rd, POB 131310, Lower Hutt, New Zealand

*Food Chem* 1997 **59** (2) 187

Identification and quantification of major polyphenols in apple pomace

Manderfeld MM, Schafer HW\*, Davidson PM, Zottola EA// \*Univ Minnesota, Dept Food Sci, 1334 Eckles Ave, St Paul, Mn 55108, USA

*J Food Protect* 1997 **60** (1) 72

Isolation and identification of antimicrobial furocoumarins from parsley

Marconi E, Ruggeri S, Carnovale E\*// \*Ist Nazl Nutrizione, Via Ardeatina 546, I-00178 Rome, Italy

*Food Chem* 1997 **59** (2) 203

Chemical evaluation of wild under-exploited *Vigna* spp. seeds

Picard P, Bourgoin-Greneche M\*, Zivy M// \*GEVES, Lab Biochim, BP 52, F-17700 Suresnes, France

*Electrophoresis* 1997 **18** (1) 174

Potential of two-dimensional electrophoresis in routine identification of closely related durum wheat lines

Roberts CA, Joost RE, Rottinghaus GE// Univ Missouri, Dept Agron, Columbia, Mo 65211, USA

*Crop Sci* 1997 **37** (1) 281

Quantification of ergovaline in tall fescue by near infrared reflectance spectroscopy

Siebert KJ, Lynn PY// Cornell Univ, Dept Food Sci & Technol, Geneva, NY 14456, USA

*J Food Sci* 1997 **62** (1) 79

Haze-active protein and polyphenols in apple juice assessed by turbidimetry

Thammasouk K, Tandjo D, Penner MH\*// \*Oregon State Univ, Dept Food Sci & Technol, Corvallis, Or 97331, USA

*J Agr Food Chem* 1997 **45** (2) 437

Influence of extractives on the analysis of herbaceous biomass