

# Bibliography of analytical, nutritional and clinical methods

(4 weeks journals - Search completed at 12th Mar. 1997)

## 1 BOOKS, REVIEWS & SYMPOSIA

Breu W// Kogelberg S, D-83629 Weyarn Holzolling, Germany

*Phytomedicine* 1996 **3** (3) 293

*Allium cepa* L. (onion). I. Chemistry and analysis (Review)

Moats WA// USDA/ARS, Meat Sci Res Lab, Beltsville, Md 20705, USA

*J AOAC Int* 1997 **80** (1) 1

Advances in determination of antibiotic residues (Wiley Award address)

## 2 GENERAL

De Winter EJJ, Van Loon WKP, Esveld E, Heimovaara TJ// Wageningen

Univ Agr, Dept Agr Engn & Phys, Wageningen, The Netherlands

*J Food Eng* 1996 **30** (3-4) 351

Dielectric spectroscopy by inverse modelling of time domain reflectometry wave forms

Singh PC, Singh RK\*, Smith RS, Nelson PE// \*Purdue Univ, Dept Food Sci, Smith Hall, West Lafayette, In 47907, USA

*Food Control* 1997 **8** (1) 45

Evaluation of in-line sensors for selected properties measurements in continuous food processing

Thielecke F, Noack R// German Inst Hum Nutr, Arthur-Scheunert-Allee 114/116, D-14558 Potsdam-Rehbrücke, Germany

*J Mass Spectrometry* 1997 **32** (3) 323

Evaluation of an automated equilibration technique for deuterium/hydrogen isotope ratio measurements with respect to assessing total energy expenditure by the doubly labelled water method

## 3 AMINO ACIDS, PROTEINS & ENZYMES

Coolbear KP, Elgar DF, Ayers JS// Massey Univ, Dept Chem, Private Bag 11 222, Palmerston North, New Zealand

*Int Dairy J* 1996 **6** (11-12) 1055

Profiling of genetic variants of bovine  $\kappa$ -casein macropeptide by electrophoretic and chromatographic techniques

Dautel M, Zimmermann C, Buschmann R// Chem Landesuntersuchungsanstalt Stuttgart, Sitz Fellbach, Schaflandstr 3-2, F-70736 Fellbach, Germany

*Deut Lebensm-Rundsch* 1996 **92** (12) 390

Determining the protein content of meat products using the Dumas method (German, English Abstract)

Garang V, Huang TS, Wei CI// \*Univ Florida, Dept Food Sci & Human Nutr, Gainesville, Fl 32611, USA

*Food Control* 1996 **7** (6) 295

Comparison of crabmeat protein patterns by isoelectric focusing

Garcia MC, Torre M, Laborda F, Marina ML\*// \*Univ Alcala de Henares, Ctr Tecnol Aliment & Serv Biosanit, E-28871 Madrid, Spain

*J Chromatogr A* 1997 **758** (1) 75

Rapid separation of soybean globulins by reversed-phase high-performance liquid chromatography

Grasselli M, Cascone O// Campichuelo 103-2<sup>a</sup>, RA-1405 Buenos Aires, DF, Argentina

*Neth Milk Dairy J* 1996 **50** (4) 551

Separation of lactoferrin from bovine whey by dye affinity chromatography

Holmquist L, Fredrikson S, Vesterberg O\*// \*Nat Inst Working Life, Dept Occupat Hlth, S-17184 Solna, Sweden

*J Biochem Biophys Meth* 1996 **33** (1) 1

A zone immunoelectrophoresis assay method for quantification of apolipoprotein D in human cerebrospinal fluid

tein D in human cerebrospinal fluid

Julliard JH, Breton-Gilet A// Rhone Poulenc Agrochim, UMR 41 CNRS, 14-20 rue Baizet, POB 9163, F-69263 Lyon 09, France

*Protein Express Purif* 1997 **9** (1) 10

Identification of hydroxypyruvate reductase from parsley by peptide sequence comparison after a two-step purification

Krawielitzki K, Kreienbring F, Kowalczyk J, Zebrowska T, Schadereit R// Univ Rostock, Inst Umweltgerechte Tierhaltung, Justus von Liebig Weg 8, D-18059 Rostock, Germany

*J Anim Physiol Anim Nutr* 1996 **76** (2-3) 57

Absorption and secretion of exogenous and endogenous N along the digestive tract and kinetic parameters of protein metabolism in growing pigs. II. Determining kinetic parameters of protein metabolism in the pig using the <sup>15</sup>N tracer technique

Levieux D, Levieux A// INRA, Meat Res Stn, Immunochem Unit, F-63122 St Genes Champanelle, France

*J Food Biochem* 1996 **20** (4) 295

Localized conformational changes occurring in myoglobin upon heating as revealed by use of monoclonal antibodies

Lippi G, Lo Cascio C, Ruzzenente O, Brentegani C, Guidi G\*// \*Univ Verona, Lab Anal Chim Clin & Microbiol, I-37067 Verona, Italy

*Clin Chim Acta* 1996 **256** (2) 125

Significant reduction of the bias among commercial immunoassays for lipoprotein(a) after use of a uniform calibrator

Mine Y// Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1

*J Agr Food Chem* 1997 **45** (1) 68

Phosphorus-31 nuclear magnetic resonance study on adsorption behavior of caseinate in triacylglycerol-in-water emulsions

Rohm H, Jaros D, Rockenbauer C, Riedler-Hellrigl M, Uniacke-Lowe T, Fox PF// Agr Univ Vienna, Dept Dairy Sci & Bacteriol, Gregor Mendel Str 33, A-1180 Vienna, Austria

*Int Dairy J* 1996 **6** (11-12) 1069

Comparison of ethanol and trichloroacetic acid fractionation for measurement of proteolysis in Emmental cheese

Sachen RW, Thieh NJ\*// \*Dakota State Univ, Dept Chem & Biochem, Box 2170, Brookings, SD 57007, USA

*J AOAC Int* 1997 **80** (1) 14

Effect of sample introduction and atmospheric blank on determination of nitrogen (crude protein) by combustion

Simonne AH, Simone EH, Eitenmiller RR, Mills HA, Cresman CP// Auburn Univ, Dept Nutr & Food Sci, 328 Spindle Hall, Auburn, Al 36849, USA

*J Sci Food Agr* 1997 **73** (1) 39

Could the Dumas method replace the Kjeldahl digestion for nitrogen and crude protein determinations in foods?

South JB// Address not available.

*J Inst Brew* 1997 **103** (1) 3

Estimation of endo  $\beta$ -glucanase activity in malt using a viscometric method

Stevenson RJ, Chen XD\*// \*Univ Auckland, Food Sci & Proc Engn Grp, Private Bag 92019, Auckland, New Zealand

*Food Res Int* 1996 **29** (5-6) 495

A study of volatile "trapping" in spray dried whey protein concentrate by "crushing" and/or vacuuming, and detection by solid-phase microextraction gas chromatography/mass spectrometry

Sutton KH, Bietz JA// New Zealand Inst Crop & Food Res, Private Bag 4704, Christchurch, New Zealand

*J Cereal Sci* 1997 **25** (1) 9

Variation among high molecular weight subunits of glutenin detected by capillary 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; 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.

## 4 CARBOHYDRATES

Acquistucci R, Bucci R\*, Magri AD, Magri AL// \*Univ Roma La Sapienza, Dipt Chim, I-00100 Rome, Italy

*Fresenius J Anal Chem* 1997 **357** (1) 97

Thermal analysis of food carbohydrates by determination of starch gelatinization phenomena

Cadet F, Offmann B// Univ Reunion, Lab Biochim, 15 Ave Rene Cassin, BP 7151, F-977159 St Denis, Reunion, France

*J Agr Food Chem* 1997 **45** (1) 166

Direct spectroscopic sucrose determination of raw sugar cane juices

Doehler DC, Zhang DC, McMullen MS, Moore WR// Nth Dakota State Univ, USDA/ARS, Wheat Qual Lab, Harris Hall, Fargo, ND 58105, USA

*Crop Sci* 1997 **37** (1) 235

Estimation of mixed linkage  $\beta$ -glucan concentration in oat and barley from viscosity of whole grain flour slurry

Dongowski G// German Inst Human Nutr, Arthur Scheunert Allee 114/116, D-14558 Bergholz Rehbrücke, Germany

*J Chromatogr A* 1996 **756** (1-2) 211

Determination of saturated and unsaturated oligogalacturonic acids by means of thin-layer chromatography

Garcia-Jares CM, Medina B// Univ Santiago de Compostela, Dept Quim Analit Nutr & Bromatol, E-15706 Santiago de Compostela, Spain

*Fresenius J Anal Chem* 1997 **357** (1) 86

Application of multivariate calibration to the simultaneous routine determination of ethanol glycerol, fructose, glucose and total residual sugars in botrytized-grape sweet wines by means of near-infrared reflectance spectroscopy

Kogure M, Mori H\*, Arikawa H, Kojima C, Yamamoto H// \*Kyoritsu Coll Pharmaceut Sci, Tokyo 105, Japan

*Anal Chim Acta* 1997 **337** (1) 107

Determination of sucrose using sucrose phosphorylase in a flow-injection system

Li BW, Zhao ZK, Jekot JJ// USDA/ARS, Good Composit Lab, Beltsville Human Nutr Res Ctr, Beltsville, Md 20705, USA

*J AOAC Int* 1997 **80** (1) 98

Effect of lipid extraction methods on total dietary fiber and nonstarch polysaccharide contents of selected nuts and seeds

Rodrigo J, Rivas E, Herrero M// DGA, SIA, Unidad Fruticultura, Campus Aula Dei, Apdo 727, E-50080 Zaragoza, Spain

*Physiol Plant* 1997 **99** (1) 105

Starch determination in plant tissues using a computerized image analysis system

Sanders P, Brunt K\*// \*TNO, Netherlands Inst Carbohydrate Res, Rouaanstr 27, NL-9723 CC Groningen, The Netherlands

*Starch* 1996 **48** (11-12) 448

Gas chromatographic determination of free adipic acid in adipyl cross-linked starches

Tomas RL, Oliveira JC\*, McCarthy KL// \*Univ Catolica Portuguesa, Escola Super Biotecnol, Rua Dr Antonio Bernardino Almeida, P-4200 Oporto, Portugal

*Food Sci Technol-Lebensm Wiss* 1997 **30** (1) 50

Influence of operating conditions on the extent of enzymatic conversion of rice starch in wet extrusion

Xu A, Seib PA\*// \*Kansas State Univ, Dept Grain Sci & Ind, Manhattan, KS 66506, USA

*J Cereal Sci* 1997 **25** (1) 17

Determination of the level and position of substitution in hydroxypropylated starch by high-resolution  $^1\text{H-NMR}$  spectroscopy of  $\alpha$ -limit dextrins

## 5 LIPIDS

Arai H, Mohri S, Suzuki T, Takama K, Terao J\*// \*Minist Agr Forestry & Fisheries, Natl Food Res Inst, 2-1-2 Kannondai, Tsukuba, Ibaraki 305, Japan

*Biosci Biotechnol Biochem* 1997 **61** (1) 191

Coulometric electrochemical detection of phospholipid hydroperoxides by high-performance liquid chromatography

Cole TG// Washington Univ, Lipid Res Ctr, 660 Sth Euclid, St Louis, Mo 63110, USA

*J Clin Ligand Assay* 1996 **19** (3) 168

The role of immunochemistry in the direct measurement of low density lipoprotein cholesterol

Damiani P, Cossignani L, Simonetti MS, Campisi B, Favretto L\*, Favretto LG// \*Univ Trieste, Risorse Nat & Prod, Via Valerio 6, I-34127 Trieste, Italy

*J Chromatogr A* 1997 **758** (1) 109

Stereospecific analysis of the triacylglycerol fraction and linear discriminant analysis in a climatic differentiation of Umbrian extra-virgin olive oils

Dedinaite A, Claesson PM, Bergenstahl B, Campbell B// Royal Inst Technol, Dept Chem, Lab Chem Surface Sci, S-10044 Stockholm, Sweden

*Food Hydrocolloid* 1997 **11** (1) 7

Interactions between hydrophilic surfaces in triglyceride media: Information obtained from surface force measurements

Espinosa-Mansilla A, De la Pena AM, Salinas F, Alanon A, Murillo JA// Univ Extremadura, Dept Analyt Chem, E-06071 Badajoz, Spain

*J Agr Food Chem* 1997 **45** (1) 172

Kinetic-fluorometric determination of malonaldehyde based on the Hantzsch reaction: Application to olive oil analysis

Law WT, Doshi S, McGeehan J, Gibboni D, Nikoloukine Y, Keane R, Zheng J, Rao J, Ertingshausen G// ActiMed Labs Inc, 5 Terri Lane, Burlington, NJ 08016, USA

*Clin Chem* 1997 **43** (2) 384

Whole-blood test for total cholesterol by a self-metering, self-timing disposable device with built-in quality control

Seppanen-Laakso T, Laakso I, Backlund P, Vanhanen H, Viikari J// Univ Helsinki, Dept Pharm, POB 56, Viikinkaari 5, FIN-00014 Helsinki, Finland

*J Chromatogr B-Biomed Appl* 1996 **687** (2) 371

Elaidic and *trans*-vaccenic acids in plasma phospholipids as indicators of dietary intake of 18:1 *trans*-fatty acids

Vasudevan PT, Zhou T// Univ New Hampshire, Dept Chem Engr, Kingsbury Hall, Durham, NH 03824, USA

*Biotechnol Bioeng* 1997 **53** (4) 391

Enzymatic assay of cholesterol by reaction rate measurements

Vrta L, Contacos C, Li SCH, Sullivan DR\*// \*Royal Prince Alfred Hosp, Dept Clin Biochem, Missenden Rd, Camperdown, NSW 2050, Australia

*Clin Chem* 1997 **43** (2) 390

Comparison of methods for measurement of apolipoprotein B and cholesterol in low-density lipoproteins

## 6 VITAMINS &amp; CO-FACTORS

Bell CM, Sander LC, Wise SA// Natl Inst Stand & Technol, Div Analyt Chem, Gaithersburg, Md 20899, USA

*J Chromatogr A* 1997 **757** (1-2) 29

Temperature dependence of carotenoids on C<sub>18</sub>, C<sub>30</sub> and C<sub>34</sub> bonded stationary phases

Bueno MP\*// \*c/o Dr J I Rader, FDA, Off Food Labeling, HFS-175, 200 C St SW, Washington, DC 20204, USA

*Food Chem* 1997 **59** (1) 165

Collaborative study: Determination of retinol and carotene by high-performance liquid chromatography

De Padilla FC// Cent Univ Venezuela, Catedra Anal Alimentos, Caracas, Venezuela

*Arch Latinoamer Nutr* 1996 **46** (2) 169

Separation and identification of  $\beta$ -carotene and its *cis* isomers by HPLC (Spanish, English Abstract)

Gobel Y, Schaffer C, Koletzko B\*// \*Univ Munich, Kinderpoliklin, Lab Metab & Nutr, Pettenkoferstr 8A, D-80336 Munich, Germany

*J Chromatogr B-Biomed Appl* 1997 **688** (1) 57

Simultaneous determination of low plasma concentrations of retinol and tocopherols in preterm infants by a high-performance liquid chromatographic micro-method

He L, Wei G, Murray KK\*// \*Emory Univ, Dept Chem, 1515 Pierce Dr, Atlanta, Ga 30322, USA

*J Amer Soc Mass Spectrom* 1997 **8** (2) 140

Fragmentation of vitamin B<sub>12</sub> in aerosol matrix-assisted laser desorption/ionization

Kobayashi N, Imazu T, Kitahori J, Mano H, Shimada K\*// \*Kanazawa Univ, Fac Pharmaceut Sci, 13-1 Takara machi, Kanazawa, Ishikawa 920, Japan

*Anal Biochem* 1997 **244** (2) 374

A selective immunoaffinity chromatography for determination of plasma 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>: Application of specific antibodies raised against a 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>-bovine serum albumin conjugate linked through the 11 $\alpha$ -position

Koshiishi I, Imanari T\*// \*Chiba Univ, Fac Pharmaceut Sci, 1-33 Yayoi, Chiba 263, Japan

*Anal Chem* 1997 **69** (2) 216

Measurement of ascorbate and dehydroascorbate contents in biological fluids

Martinez RC, Dominguez FB, Garcia IMS, Mendez JH, Orellana RC, Guzman RS// Univ Salamanca, Dept Quim Analit Nutr & Bromatol, E-37008 Salamanca, Spain

*Anal Chim Acta* 1996 **336** (1-3) 47

Electrochemical response of a polypyrrole-dodecylsulphate electrode with multicharged cations and vitamins B<sub>1</sub> and B<sub>6</sub>. Application as a microsensor in flow-injection analysis

- Mercadante AZ, Rodriguez-Amaya DB\*, Britton G// \*Univ Estadual Campinas, Dept Ciencia Alimentos, CP 6121, BR-13081-970 Campinas, SP, Brazil  
*J Agr Food Chem* 1997 **45** (1) 120  
HPLC and mass spectrometric analysis of carotenoids from mango
- Pournaghi-Azar MH, Ojani R// Univ Tabriz Fac Chem, Electroanal Chem Lab, Tabriz, Iran  
*Talanta* 1997 **44** (2) 297  
A selective catalytic voltammetric determination of vitamin C in pharmaceutical preparations and complex matrices of fresh fruit juices
- Tabata M, Morita H// Saga Univ, Dept Chem, 1 Honjo machi, Saga 840, Japan  
*Talanta* 1997 **44** (2) 151  
Spectrophotometric determination of a nanomolar amount of ascorbic acid using its catalytic effect on copper(II) porphyrin formation
- Tamura T, Mizuno Y, Johnston KE, Jacob RA// Univ Alabama, Dept Nutr Sci, 218 Webb Bldg, Birmingham, Al 35294, USA  
*J Agr Food Chem* 1997 **45** (1) 135  
Food folate assay with protease,  $\alpha$ -amylase, and folate conjugase treatments
- Tutem E, Apak R, Gunaydi E, Sozgen K// Univ Istanbul, Dept Chem, TR-34850 Istanbul, Turkey  
*Talanta* 1997 **44** (2) 249  
Spectrophotometric determination of vitamin E ( $\alpha$ -tocopherol) using copper(II)-neocuproine reagent
- Uchiyama S, Hasebe Y, Tanaka M// Saitama Inst Technol, Dept Environ Engr, 1690 Fusaiji, Okabe, Saitama 369-02, Japan  
*Electroanal* 1997 **9** (2) 176  
L-Ascorbate sensor with polypyrrole-coated carbon felt membrane electropolymerized in a cucumber juice solution
- Yu AM, He CX, Zhou J, Chen HY\*// \*Nanjing Univ, Dept Chem, Nanjing 210093, Peoples Rep China  
*Fresenius J Anal Chem* 1997 **357** (1) 84  
Flow injection analysis of ascorbic acid at a methylene green chemically modified electrode
- Zempleni J, McCormick DB, Mock DM\*// \*Arkansas Children's Hosp, Dept Pediat GI, 800 Marshall St, Little Rock, Ar 72202, USA  
*Amer J Clin Nutr* 1997 **65** (2) 508  
Identification of biotin sulfone, bisnorbiotin methyl ketone, and tetranorbiotin-sulfoxide in human urine
- ## 7 TRACE ELEMENTS & MINERALS
- Al-Saleh I, Al-Doush I// King Faisal Specialist Hosp & Res Ctr, Dept Biol & Med Res, POB 3354, Riyadh 11211, Saudi Arabia  
*Trace Elem Electrolytes* 1997 **14** (1) 6  
Analysis of selenium in milk and wheat sample by wet digestion and hydride generation inductively coupled plasma spectrometry
- Allen LB, Siitonen PH, Thompson HC// US/FDA, Natl Ctr Toxicol Res, Div Chem, HFT-230, Jefferson, Ar 72079, USA  
*J Agr Food Chem* 1997 **45** (1) 162  
Methods for the determination of arsenic, cadmium, copper, lead, and tin in sucrose, corn syrups, and high-fructose corn syrups by inductively coupled plasma atomic emission spectrometry
- Baldo MA, Bragato C, Daniele S\*// \*Univ Venice, Dept Phys Chem, Calle Larga S Marta 2137, I-30123 Venice, Italy  
*Analyst* 1997 **122** (1) 1  
Determination of lead and copper in wine by anodic stripping voltammetry with mercury microelectrodes: Assessment of the influence of sample pretreatment procedures
- Barbeira PJS, Stradiotto NR// USP, Inst Quim Sao Carlos, CP 780, BR-13560-970 Sao Carlos, SP, Brazil  
*Talanta* 1997 **44** (2) 185  
Simultaneous determination of trace amounts of zinc, lead and copper in rum by anodic stripping voltammetry
- Bektas S, Salih B, Onol S, Satiroglu N, Genc O// Hacettepe Univ, Dept Chem, TR-06532 Ankara, Turkey  
*Trace Elem Electrolytes* 1997 **14** (1) 46  
HPLC/AAS coupling for the elimination of chloride interferences in the determination of selenium in human blood serum
- Blyth DJ, Poynter SJ, Russell DA\*// \*Univ East Anglia, Sch Chem Sci, Norwich NR4 7TJ, England  
*Analyst* 1996 **121** (12) 1975  
Calcium biosensing with a sol-gel immobilized photoprotein
- Bosnak CP, Grosser ZA// Perkin Elmer Corp, 761 Main Ave, Norwalk, Ct 06859, USA  
*Atom Spectrosc* 1996 **17** (6) 218  
The analysis of drinking water and bottled water by flame AA and GFAA
- Briggs-Reed LM, Heagler MG\*// \*McNeese State Univ, Dept Biol & Environm Sci, POB 92000, Lake Charles, La 70609, USA  
*Microchem J* 1997 **55** (1) 122  
A comparative analysis of lead concentrations in purged and unpurged crayfish (*Procambarus clarkii*): The significance of digestive tract removal prior to consumption by humans
- Bruno AE, Barnard S, Rouilly M, Waldner A, Berger J, Ehrat M// Ciba Geigy AG, Bioanalyt Res Lab, CH-4002 Basel, Switzerland  
*Anal Chem* 1997 **69** (3) 507  
All-solid state miniaturized fluorescence sensor array for the determination of critical gases and electrolytes in blood
- Cabrera-Vique C, Teissedre PL\*, Cabanis MT, Cabanis JC// \*Univ Montpellier 1, Ctr Format & Rech Oenol, Ave Charles Flahaut, F-34060 Montpellier, France  
*J AOAC Int* 1997 **80** (1) 57  
Determination of platinum in wine by graphite furnace atomic absorption spectrometry
- Corr JJ, Larsen EH// Sciex Ltd, 71 4 Valley Dr, Concord, Ontario, Canada L4K 4Y8  
*J Anal Atom Spectrom* 1996 **11** (12) 1215  
Arsenic speciation by liquid chromatography coupled with ionspray tandem mass spectrometry
- Kubova J, Hanakova V, Medved J, Stresko J// Comenius Univ, Fac Nat Sci, Mlynska dolina, SK-84215 Bratislava, Slovakia  
*Anal Chim Acta* 1997 **337** (3) 329  
Determination of lead and cadmium in human hair by atomic absorption spectrometric procedures after solid phase extraction
- Lafuente JMG, Sanchez MLF, Sanz-Medel A\*// \*Univ Oviedo, Dept Phys & Analyt Chem, C/ Julian Claveria 8, E-33006 Oviedo, Spain  
*J Anal Atom Spectrom* 1996 **11** (12) 1163  
Speciation of inorganic selenium and selenoaminoacids by on-line reversed-phase high-performance liquid chromatography focused microwave digestion hydride generation atomic detection
- Liu ZS, Reches M, Engelberg-Kulka H\*// \*Hebrew Univ Jerusalem, Dept Mol Biol, IL-91120 Jerusalem, Israel  
*Anal Biochem* 1997 **244** (1) 40  
A rapid fluorescence bioassay for the determination of selenium on agar plates
- Marchante-Gayon JM, Sanchez-Uria JE, Sanz-Medel A\*// \*Univ Oviedo, Dept Phys & Analyt Chem, Julian Claveria 8, E-33006 Oviedo, Spain  
*J Trace Elem Med Biol* 1996 **10** (4) 229  
Serum and tissue selenium contents related to renal disease and colon cancer as determined by electrothermal atomic absorption spectrometry
- Mestek O, Suchanek M, Vodickova Z, Zemanova B, Zima T// Prague Inst Chem Technol, Dept Analyt Chem, CR-16628 Prague 6, Czech Republic  
*J Anal Atom Spectrom* 1997 **12** (1) 85  
Comparison of the suitability of various atomic spectroscopic techniques for the determination of selenium in human whole blood
- Moon CS, Zhang ZW, Shimbo S, Hokimoto S, Shimazaki K, Saito T, Shimizu A, Imai Y, Watanabe T, Ikeda M\*// \*Kyoto Ind Hlth Assoc, Nakagyo ku, 67 Nishinokyo, Kitatsubocho, Kyoto 604, Japan  
*J Trace Elem Med Biol* 1996 **10** (4) 237  
A comparison of the food composition table-based estimates of dietary element intake with the values obtained by inductively coupled plasma atomic emission spectrometry: An experience in a Japanese population
- Olivas RM, Donard OFX\*, Gilon N, Potin-Gautier M// \*Univ Pau & Pays Adour, Lab Chim Bioinorgan & Environnement, F-64000 Pau, France  
*J Anal Atom Spectrom* 1996 **11** (12) 1171  
Speciation of organic selenium compounds by high-performance liquid chromatography/inductively coupled plasma mass spectrometry in natural samples
- Pereira MC, Faria JL, Reis ML, Sousa JP\*// \*Univ Porto, Inst Engr Biomed, Dept Engr Quim, Praca Coronel Pacheco 1, P-4050 Porto, Portugal  
*Electroanal* 1997 **9** (2) 150  
Nickel quantification in mice organs by adsorptive cathodic stripping voltammetry using mercury microelectrodes
- Rademeyer CJ, Radziuk B, Romanova N, Thomassen Y, Tittarelli P// Univ Pretoria, Dept Chem, ZA-0002 Pretoria, Rep Sth Africa  
*J Anal Atom Spectrom* 1997 **12** (1) 81  
Reduction of background absorption in the measurement of cadmium, lead and selenium in whole blood using iridium-sputtered graphite tubes in electrothermal atomic absorption spectrometry
- Sauerhoff ST, Grosser ZA, Camrick GR// Perkin Elmer Corp, 761 Main Ave, Norwalk, Ct 06859, USA  
*Atom Spectrosc* 1996 **17** (6) 225  
The determination of chromium and cadmium in urine by graphite furnace atomic absorption
- Shang SF, Hong W// He Bei Univ, Dept Chem, Baoding 071002, Peoples Rep China  
*Talanta* 1997 **44** (2) 269  
Flame atomic absorption spectrometric determination of copper, zinc, calcium,

- magnesium and iron in fresh eggs using microvolume injection  
Stewart II, Horlick G// Univ Alberta, Dept Chem, Edmonton, Alberta, Canada T6G 2G2  
*J Anal Atom Spectrom* 1996 **11** (12) 1203  
Investigations into chromium speciation by electrospray mass spectrometry  
Sun DH, Waters JK, Mawhinney TP// Univ Missouri, Expt Stn Chem Labs, Columbia, Mo 65211, USA  
*J AOAC Int* 1997 **80** (1) 20  
Determination of boron in plants and plant-derived foods by ultrasonic nebulization-inductively coupled plasma atomic emission spectrometry with addition of mannitol  
Tan YX, Marshall WD\*// \*McGill Univ, Dept Food Sci & Agr Chem, MacDonald Campus, 21111 Lakeshore Rd, St Anne de Bellevue, Quebec, Canada H9X 3V9  
*Analyst* 1997 **122** (1) 13  
Enzymic digestion-high-pressure homogenization prior to slurry introduction electrothermal atomic absorption spectrometry for the determination of selenium in plant and animal tissues  
Thomson CD, Smith TE, Butler KA, Packer MA// Univ Otago, Dept Human Nutr, POB 56, Dunedin, New Zealand  
*J Trace Elem Med Biol* 1996 **10** (4) 214  
An evaluation of urinary measures of iodine and selenium states  
Vela NP, Caruso JA\*// \*Univ Cincinnati, Dept Chem, POB 210172, Cincinnati, Oh 45221, USA  
*J Anal Atom Spectrom* 1996 **11** (12) 1129  
Trace metal speciation via supercritical fluid extraction liquid chromatography/inductively coupled plasma mass spectrometry  
Velez D, Ybanez N, Montoro R// CSIC, Inst Agroquim & Tecnol Alimentos, AC 73, E-46100 Burjassot, Valencia, Spain  
*J Anal Atom Spectrom* 1997 **12** (1) 91  
Determination of arsenobetaine in manufactured seafood products by liquid chromatography, microwave-assisted oxidation and hydride generation atomic absorption spectrometry  
Viteri FE, Kohaut BA// Univ Calif, Dept Nutr Sci, Berkeley, Ca 94720, USA  
*Anal Biochem* 1997 **244** (1) 116  
Improvement of the Eakins and Brown method for measuring <sup>59</sup>Fe and <sup>55</sup>Fe in blood and other iron-containing materials by liquid scintillation counting and sample preparation using microwave digestion and ion-exchange column purification of iron  
Wifladt AM, Wibetoe G, Lund W\*// \*Univ Oslo, Dept Chem, POB 1033, N-0315 Oslo, Norway  
*Fresenius J Anal Chem* 1997 **357** (1) 92  
Determination of antimony in wine by hydride generation graphite furnace atomic absorption spectrometry
- ## 8 DRUG, BIOCIDES & PROCESSING RESIDUES
- Abdel-Rehim F, Basfar AA, Al-Kahtani HA, Abu-Tarboush HM// Inst Atom Energy Res, POB 6086, Riyadh 11442, Saudi Arabia  
*Appl Radiat Isotopes* 1997 **48** (2) 241  
The use of electron spin resonance spectroscopy for the detection of irradiated mackerel  
Ang CYW, Luo WH// US/FDA, Natl Ctr Toxicol Res, 3900 NCTR Rd, Jefferson, Ar 72079, USA  
*J AOAC Int* 1997 **80** (1) 25  
Rapid determination of ampicillin in bovine milk by liquid chromatography with fluorescence detection  
Argauer RJ, Eller KI, Pfeil RM, Brown RT// USDA/ARS, Beltsville Agr Res Ctr, Beltsville, Md 20705, USA  
*J Agr Food Chem* 1997 **45** (1) 180  
Determining ten synthetic pyrethroids in lettuce and ground meat by using ion-trap mass spectrometry and electron-capture gas chromatography  
Barnes KA, Fussell RJ, Startin JR, Mobbs HJ, James R, Reynolds L// MAFF, CSL Food Sci Lab, Norwich Res Park, Colney, Norwich NR4 7UQ, England  
*Rapid Commun Mass Spectrom* 1997 **11** (2) 159  
Determination of the pesticide fenbutatin oxide in tomatoes, cucumbers and bananas by high performance liquid chromatographic/atmospheric pressure chemical ionization-mass spectrometry  
Bateman KP, Locke SJ, Volmer DA\*// \*Natl Res Council, Inst Marine Biosci, 1411 Oxford St, Halifax, Nova Scotia, Canada B3H 3Z1  
*J Mass Spectrometry* 1997 **32** (3) 297  
Characterization of isomeric sulfonamides using capillary zone electrophoresis coupled with nano-electrospray quasi-MS/MS/MS  
Bustos ME, Romero ME, Gutierrez A, Azorin J// Inst Nacl Invest Nucl, Salazar 52045, Mexico  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1655  
Identification of irradiated mangoes by means of ESR spectroscopy  
Cabras P, Angioni A, Melis M, Spanedda L, Minelli EV// Univ Cagliari, Dipt Tossicol, Viale Diaz 182, I-09126 Cagliari, Italy  
*Ital J Food Sci* 1996 **8** (4) 317  
Determination and persistence of methiocarb in artichokes  
Castle L, Offen CP, Baxter MJ, Gilbert J// MAFF, CSL Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England  
*Food Addit Contam* 1997 **14** (1) 35  
Migration studies from paper and board food packaging materials. I. Compositional analysis  
Castle L, Damant AP, Honeybone CA, Johns SM, Jickells SM, Sharman M, Gilbert J// Address as above.  
*Food Addit Contam* 1997 **14** (1) 45  
Migration studies from paper and board food packaging materials. II. Survey for residues of dialkylamino benzophenone UV-cure ink photoinitiators  
De Jesus EFO, Rossi AM, Lopes RT// Univ Fed Rio de Janeiro, COPPE, Nucl Engn Program, POB 68509, BR-21945-970 Rio de Janeiro, Brazil  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1647  
Influence of sample treatment on ESR signal of irradiated citrus  
Desrosiers MF// Natl Inst Stand & Technol, Phys Lab Technol Adm, Gaithersburg, Md 20899, USA  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1621  
Current status of the EPR method to detect irradiated food  
Din N, Bartle KD\*, Clifford AA, McCormack A, Castle L// \*Univ Leeds, Sch Chem, Leeds LS2 9JT, England  
*J Chromatogr Sci* 1997 **35** (1) 31  
Supercritical fluid extraction of sulphamethazine and its metabolites from meat tissues  
Fletouris DJ, Botsoglou NA, Psomas IE, Mantis AI// Aristotelian Univ, Lab Milk Hyg, GR-54006 Thessaloniki, Greece  
*J Chromatogr B-Biomed Appl* 1996 **687** (2) 427  
Trace analysis of albendazole and its sulphoxide and sulphone metabolites in milk by liquid chromatography  
Ghelawi MA, Moore JS, Dodd NJF// Univ Salford, Salford M5 4WT, England  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1641  
Use of ESR for the detection of irradiated dates (*Phoenix dactylifera* L)  
Homoki-Farkas P, Orsi F, Kroh LW// Tech Univ Budapest, Dept Biochem & Food Technol, Muegyetem rkp 3-5, H-1111 Budapest, Hungary  
*Food Chem* 1997 **59** (1) 157  
Methylglyoxal determination from different carbohydrates during heat processing  
Kennedy DG, Blanchflower WJ, O'Dorman BC// Dept Agr Nthn Ireland, Vet Sci Div, Belfast BT4 3SD, Northern Ireland  
*Food Addit Contam* 1997 **14** (1) 27  
Development of an ELISA for maduramicin and determination of the depletion kinetics of maduramicin residues in poultry  
Kroh LW, Jalyschko W, Haseler J// Tech Univ Berlin, Inst Food Chem, Gustav Meyer Allee 25, D-13355 Berlin, Germany  
*Starch* 1996 **48** (11-12) 426  
Non-volatile reaction products by heat-induced degradation of  $\alpha$ -glucans. I. Analysis of oligomeric maltodextrins and anhydrosugars  
Lickly TD, Rainey ML, Burgert LC, Breder CV, Borodinsky L// Dow Chem Co USA, Hlth & Environm Sci, Midland, Mi 48674, USA  
*Food Addit Contam* 1997 **14** (1) 65  
Using a simple diffusion model to predict residual monomer migration: Considerations and limitations  
Luo WH, Yin BZ, Ang CYW\*, Rushing L, Thompson HC// \*US/FDA, Natl Ctr Toxicol Res, Dept Hlth & Human Serv, 3900 NCTR Dr, Jefferson, Ar 72079, USA  
*J Chromatogr B-Biomed Appl* 1996 **687** (2) 405  
Determination of lincomycin residues in salmon tissues by gas chromatography with nitrogen phosphorus detection  
Matsuura H, Matsuura N, Minagawa N, Hirota T// Snow Brand Milk Prod Co Ltd, Food Res Lab, Qual Assurance Dept, 1-1-2 Minamidai, Kawagoe, Saitama 35011, Japan  
*Bunseki Kagaku* 1997 **46** (1) 31  
Determination of aliphatic aldehydes in milk, milk products, edible fat and oil by HPLC (Japanese, English Abstract)  
Miyake T, Shibamoto T\*// \*Univ Calif, Dept Environm Toxicol, Davis, Ca 95616, USA  
*Food Chem Toxicol* 1996 **34** (10) 1009  
Simultaneous determination of acrolein, malonaldehyde and 4-hydroxy-2-nonenal produced from lipids oxidized with Fenton's reagent  
Moslemi S, Silberzahn P, Seralini GE\*// \*Univ Caen, IRBA, EP 0009 CNRS, Lab Biochim & Biol Mol, F-14032 Caen, France  
*Lait* 1996 **76** (6) 537  
Measurements of steroid and  $\beta$ -agonist concentrations in infant milks (French, English Abstract)

- Murrieta H, Munoz E, Adem E, Burillo G, Vazquez M, Cabrera E// Univ Nacl Autonoma Mexico, Inst Fis, AP 20-364, Mexico City 01000, DF, Mexico  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1657  
Effect of irradiation dose, storage time and temperature on the ESR signal in irradiated oat, corn and wheat
- Onori S, Pantaloni M\*, Baccaro S, Fuochi PG// \*Ist Super Sanita, Phys Lab, Viale Regina Elena 299, I-00161 Rome, Italy  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1637  
Influencing factors on ESR bone dosimetry
- Pang GF, Cao YZ, Fan CL, Zhang JJ, Li XM// Import & Export Commod Inspect Bur, 61 Haibin Rd, Qinhuangdao 066002, Hebei, Peoples Rep China  
*J AOAC Int* 1997 **80** (1) 63  
Modification of AOAC multiresidue method for determining synthetic pyrethroid residues in fruits, vegetables, and grains. III. Studies of analyte stability and method ruggedness
- Pearce KL, Trenerry VC, Were S// Australian Govt Analyt Labs, 338-340 Tapleys Hill Rd, Seaton, SA 5023, Australia  
*J Agr Food Chem* 1997 **45** (1) 153  
Supercritical fluid extraction of pesticide residues from strawberries
- Philo MR, Damant AP, Castle L\*// \*MAFF, CSL Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England  
*Food Addit Contam* 1997 **14** (1) 75  
Reactions of epoxide monomers in food simulants used to test plastics for migration
- Raffi J, Hasbany C, Lesgards G, Ochin D// Fac Sci & Tech St Jerome, Lab Rech Qual Aliments, F-13397 Marseille 20, France  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1633  
ESR detection of irradiated seashells
- Stewart EM, Gray R// Queen's Univ Belfast, Dept Food Sci, Newforge Lane, Belfast BT9 5PX, Northern Ireland  
*Appl Radiat Isotopes* 1996 **47** (11-12) 1629  
A study on the effect of irradiation dose and storage on the ESR signal in the cuticle of pink shrimp (*Pandalus montagui*) from different geographical regions
- Turnipseed SB, Roybal JE, Plakas SM, Pfenning AP, Hurlbut JA, Long AR// US/FDA, Anim Drugs Res Ctr, POB 25087, Denver, Co 80225, USA  
*J AOAC Int* 1997 **80** (1) 31  
Determination of methylene blue in channel catfish (*Ictalurus punctatus*) tissue by liquid chromatography with visible detection
- Wilkins JP, Yorke CP, Tinkler MR// Unilever Res, Colworth Lab, Sharnbrook, Beds MK44 1LQ, England  
*Rapid Commun Mass Spectrom* 1997 **11** (2) 206  
Investigating the use of deuteriodiazomethane derivatization for enhancing trace gas chromatography/mass spectrometry determination of halophenols in the presence of haloanisoles
- Williams KJ, Thorpe SA, Reynolds SL// CSL Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England  
*Int J Environ Anal Chem* 1996 **65** (1-4) 149  
The use of ELISA for the determination of pesticide residues in food
- Wit B, Van Buuren RD, Van Ooy-Landman AN, Van Hattum E, Van Ramshorst E// Inspectorate Hlth Protect Leeuwarden, Oostergoweg 2, NL-8932 PG Leeuwarden, The Netherlands  
*Neth Milk Dairy J* 1996 **50** (4) 573  
Detection of antibiotic substances in milk using capacitance measurement
- Yaylayan VA, Matni G, Pare JRJ, Belanger JMR// McGill Univ, Dept Food Sci & Agr Chem, St Anne de Bellevue, Quebec, Canada H9X 3V9  
*J Agr Food Chem* 1997 **45** (1) 149  
Microwave-assisted synthesis and extraction of selected Maillard reaction products
- Zomer E, Lieu T// Charm Sci Inc, 36 Franklin St, Malden, Ma 02148, USA  
*Milchwissenschaft* 1996 **51** (12) 696  
Performance of a broad spectrum anti-microbial drug inhibition assay (AIM 96) in an inter-laboratory collaborative study in bulk raw milk
- Kientz CE, Hulst AG, Wils ER// TNO, Prins Maurits Lab, POB 45, NL-2280 AA Rijswijk, The Netherlands  
*J Chromatogr A* 1997 **757** (1-2) 51  
Determination of staphylococcal enterotoxin B by on-line (micro) liquid chromatography-electrospray mass spectrometry
- Majerus P, Otteneder H// Chem Untersuchungsamt Trier, Maximineracht 11A, D-54295 Trier, Germany  
*Deut Lebensm-Rundsch* 1996 **92** (12) 388  
Detection and occurrence of ochratoxin A in wine and grapejuice (German, English Abstract)
- Oliveira CAF, Germano PML, Bird C, Pinto CA// Univ Sao Paulo, Dept Anim Prod, Avda Duque Caxias Norte 225, BR-13630-000 Pirassununga, SP, Brazil  
*Food Addit Contam* 1997 **14** (1) 7  
Immunochemical assessment of aflatoxin M<sub>1</sub> in milk powder consumed by infants in Sao Paulo, Brazil
- Oubrahim H, Richard JM, Cantin-Esnault D, Seigle-Murandi F\*, Trecourt F// \*Univ Grenoble 1, UFR Pharm, BP 138, F-38243 Meylan, France  
*J Chromatogr A* 1997 **758** (1) 145  
Novel methods for identification and quantification of the mushroom nephrotoxin orellanine: Thin-layer chromatography and electrophoresis screening of mushrooms with electron spin resonance determination of the toxin
- Pasanen AL, Lappalainen S, Pasanen P// Univ Kuopio, Dept Environm Sci, POB 1627, FIN-70211 Kuopio, Finland  
*Analyst* 1996 **121** (12) 1949  
Volatile organic metabolites associated with some toxic fungi and their mycotoxins
- Prabhakaran V, Chitravel V, Kokilaprabakaran S// Inst Prevent Med, Ranipet 632402, India  
*Indian Vet J* 1997 **74** (1) 73  
Rapid screening, detection and assay of aflatoxin B<sub>1</sub> in cattle and poultry feeds
- Sabino M, Purchio A, Milanez TV// Inst Adolfo Lutz Registro, Secao Quim Biol, Avda Dr Arnaldo 355, BR-01246-902 Sao Paulo, Brazil  
*Rev Microbiol* 1996 **27** (3) 189  
Survey of aflatoxins B<sub>1</sub>, M<sub>1</sub> and aflatoxicol in poultry and swine tissues from farms located in the states of Rio Grande do Sul and Santa Catarina, Brazil
- Shen JL, Hummert C, Luckas B\*// \*Univ Jena, Inst Nutr & Environm, Dornburger Str 25A, D-07743 Jena, Germany  
*Fresenius J Anal Chem* 1997 **357** (1) 101  
Sensitive HPLC fluorometric and HPLC/MS determination of diarrhetic shellfish poisoning (DSP)-toxins as 4-bromomethyl-7-methoxycoumarin esters
- Solti L, Salamon F, Barna-Vetro I, Gyongyosi A, Szabo E, Wolfing A// Agr Biotechnol Ctr, POB 411, H-2101 Godollo, Hungary  
*J Anal Toxicol* 1997 **21** (1) 44  
Ochratoxin A content of human sera determined by a sensitive ELISA
- Thellman A, Weber W// Inst Dr E Kirchhoff, Albestr 4, D-12159 Berlin, Germany  
*Deut Lebensm-Rundsch* 1997 **93** (1) 1  
Determination of ochratoxin A in cereals, malt and beer after accumulation and separation on immunoaffinity columns and following high-pressure liquid chromatography with fluorescence detection (German, English Abstract)
- Valle M, Malle P, Bouquelet S// Ctr Natl Etud Vet & Alimentaires, Lab Etud Prod Peche, rue Huret Lagache, F-62200 Boulogne-sur-Mer, France  
*J AOAC Int* 1997 **80** (1) 49  
Optimization of a liquid chromatographic method for determination of amines in fish
- Van Dolah FM, Leighfield TA, Haynes BL, Hampson DR, Ramsdell JS// US Natl Marine Fisheries Serv, Marine Biotoxins Program, Charleston, SC 29412, USA  
*Anal Biochem* 1997 **245** (1) 102  
A microplate receptor assay for the amnesic shellfish poisoning toxin, domoic acid, utilizing a cloned glutamate receptor
- Yamanishi R, Tsuji H, Bando N, Yoshimoto I, Ogawa T// Univ Tokushima, Dept Nutr, 3-18-15 Kuramoto cho, Tokushima 770, Japan  
*Biosci Biotechnol Biochem* 1997 **61** (1) 19  
Micro-assay method for evaluating the allergenicity of the major soybean allergen, Gly m Bd 30K, with mouse antiserum and RBL-2H3 cells

## 9 TOXINS

- Busto O, Miracle M, Guasch J, Borull F// Univ Rovira & Virgili, Escola Enol, E-43005 Tarragona, Spain  
*J Chromatogr A* 1997 **757** (1-2) 311  
Determination of biogenic amines in wines by high-performance liquid chromatography with on-column fluorescence derivatization
- Jensen B, Unger KK, Uebe J, Gey M, Kim YM, Flecker P\*// \*Univ Mainz, Inst Physiol Chem & Pathobiochem, Duesbergweg 6, D-55099 Mainz, Germany  
*J Biochem Biophys Meth* 1996 **33** (3) 171  
Proteolytic cleavage of soybean Bowman-Birk inhibitor monitored by means of high-performance capillary electrophoresis. Implications for the mechanism of proteinase inhibitors

## 10 ADDITIVES

- Anderton SM, Incarvito CD, Sherma J// Lafayette Coll, Dept Chem, Easton, Pa 18042, USA  
*J Liq Chromatogr Relat Technol* 1997 **20** (1) 101  
Determination of natural and synthetic colors in alcoholic and non-alcoholic beverages by quantitative HPTLC
- Dean JR, Fowles IA, Hitchen SM, Khundker S, Ludkin E, Normand F, Jones P// Northumbria Univ, Dept Chem & Life Sci, Newcastle Upon Tyne NE1 8ST, England

*JAOAC Int* 1997 **80** (1) 7

Determination of antifungals in rodent diet by supercritical fluid extraction followed by packed column supercritical fluid chromatography with ultraviolet detection

Decnop-Weever LG, Kraak JC// Univ Amsterdam, Analyt Chem Lab, Nieuwe Achtergracht 166, NL-1018 WV Amsterdam, The Netherlands

*Anal Chim Acta* 1997 **337** (2) 125

Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection

Mannino S, Cosio MS// Univ Milan, DISTAM, Via Celoria 2, I-20133 Milan, Italy

*Ital J Food Sci* 1996 **8** (4) 311

Determination of benzoic and sorbic acids in food by microdialysis sampling coupled with HPLC and UV detection

## 11 FLAVOURS & AROMAS

Arikawa Y, Toko K, Ikezaki H, Shinha Y, Ito T, Oguri I, Baba S// Food Technol Res Inst, Nagano 380, Japan

*J Ferment Bioeng* 1996 **82** (4) 371

Analysis of sake mash using multichannel taste sensor

Burke S, Spooner MJR, Hegarty PK// Address not available.

*J Inst Brew* 1997 **103** (1) 15

Sensory testing of beers: An inter-laboratory sensory trial

Joo KJ, Ho CT// Keimyung Univ, Dept Food Sci & Nutr, Taegu 705701, South Korea

*Biosci Biotechnol Biochem* 1997 **61** (1) 171

Quantitative analysis of alkylpyrazines in regular- and low-fat commercial peanut butter preparations

Lopez-Hernandez J, Oruna-Concha MJ, Simal-Lozano J, Gonzalez-Castro MJ, Vazquez-Blanco ME// Univ Santiago de Compostela, Dept Quim Analit & Bromatol, E-15706 Santiago de Compostela, Spain

*Deut Lebensm-Rundsch* 1996 **92** (12) 393

Determination of capsaicin and dihydrocapsaicin in Cayenne pepper and Padron peppers by HPLC

Matissek R, Sproer P// Bundesverbandes Deutsch Susswareindever, Inst Lebensmittelchem, Adamsstr 52-54, D-51063 Cologne, Germany

*Deut Lebensm-Rundsch* 1996 **92** (12) 381

Determination of glycyrrhizin in liquorice goods and raw liquorice by means of RP-HPLC: Result of ring trials and report by the Arbeitsgruppe Susswaren (German, English Abstract)

Mielle P// INRA, Rech Aromes Lab, 17 rue Sully, F-21034 Dijon, France

*Trends Food Sci Technol* 1996 **7** (12) 432

'Electronic noses': Towards the objective instrumental characterization of food aroma

Miller RK, Rockwell LC, Lunt DK, Carstens GE// Texas A&M Univ, Dept Anim Sci, College Stn, Tx 77843, USA

*Meat Sci* 1996 **44** (4) 235

Determination of the flavor attributes of cooked beef from cross-bred Angus steers fed corn- or barley-based diets

Nuessli J, Sigg B, Conde Petit B, Escher F\*// \*ETH Zurich, Dept Food Sci, CH-8092 Zurich, Switzerland

*Food Hydrocolloid* 1997 **11** (1) 27

Characterization amylose-flavour complexes by DSC and X-ray diffraction

Schieberle P, Hofmann T// Deutsch Forsch Anstalt Lebensmittelchem, Lichtenberg Str 4, D-85748 Garching, Germany

*J Agr Food Chem* 1997 **45** (1) 227

Evaluation of the character impact odorants in fresh strawberry juice by quantitative measurements and sensory studies on model mixtures

Weissenberg M, Schaeffler I, Menagem E, Barzilai M, Levy A// Agr Res Org, Volcani Ctr, Lab Nat Prod Chem, IL-50250 Bet Dagan, Israel

*J Chromatogr A* 1997 **757** (1-2) 89

Isocratic non-aqueous reversed-phase high-performance liquid chromatographic separation of capsanthin and capsorubin in red peppers (*Capsicum annum* L), paprika and oleoresin

## 13 ANIMAL PRODUCTS

Cole CGB, Roberts JJ// Leiner Davis Gelatin, POB 5019, ZA-1742 Krugersdorp, Rep Sth Africa

*Meat Sci* 1997 **45** (1) 23

Gelatine colour measurement

Park B, Chen YR, Huffman RW// USDA/ARS, BARC, Dept Agr Instrumentat & Sensing Lab, Beltsville, Md 20705, USA

*J Food Eng* 1996 **30** (1-2) 197

Integration of visible/NIR spectroscopy and multispectral imaging for poultry

carcass inspection

## 14 PLANT & MICROBIAL PRODUCTS

Akiyama Y, Takahara Y, Yamamoto K// Nagaoka Univ Technol, Nagaoka, Niigata 94021, Japan

*Breeding Sci* 1996 **46** (4) 367

The application of image analysis to valuation on white-core in kernel of rice for sake brewery

Almeida-Dominguez HD, Suhendro EL, Rooney LW// Texas A&M Univ, Cereal Qual Lab, College Stn, Tx 77843, USA

*J Cereal Sci* 1997 **25** (1) 93

Factors affecting rapid visco analyser curves for the determination of maize kernel hardness

Bakker J, Timberlake CF// AFRC Inst Food Res, Reading Lab, Earley Gate, Whiteknights Rd, Reading RG6 6BZ, England

*J Agr Food Chem* 1997 **45** (1) 35

Isolation, identification, and characterization of new color-stable anthocyanins occurring in some red wines

Bartolozzi F, Bertazza G, Bassi D, Cristoferi G// Univ Bologna, Dipt Colture Arboree, Via Filippo Re 6, I-40126 Bologna, Italy

*J Chromatogr A* 1997 **758** (1) 99

Simultaneous determination of soluble sugars and organic acids as their trimethylsilyl derivatives in apricot fruits by gas-liquid chromatography

Cranker KJ, Phillips KM\*, Gonzales MCRV, Stewart KK// \*Virginia Polytech Inst & State Univ, Dept Biochem, Engel Hall, Blacksburg, Va 24061, USA

*JAOAC Int* 1997 **80** (1) 89

Fine tuning a bile-enzymatic-gravimetric total dietary fiber method

Cranker KJ, Phillips KM\*, Gonzales MCRV, Stewart KK// \*Address as above.

*JAOAC Int* 1997 **80** (1) 95

Effect of seeds on bile-enzymatic-gravimetric analysis of total dietary fiber

Garcia OE, Infante RB\*, Rivera CJ// \*UCV, Escuela Nutr & Diet, Lab Invest Bioanal Nutr, AP 47176, Los Chaguaramos, Caracas, Venezuela

*Food Chem* 1997 **59** (1) 171

Determination of total, soluble and insoluble dietary fibre in two new varieties of *Phaseolus vulgaris* L. using chemical and enzymatic gravimetric methods

Ha MA, Jardine WG, Jarvis MC\*// \*Univ Glasgow, Dept Chem, Glasgow G12 8QQ, Scotland

*J Agr Food Chem* 1997 **45** (1) 117

Solid-state <sup>13</sup>C NMR of cell walls in wheat bran

Jensen K, Tygesen TK, Kesmir C, Skovgaard IM, Sondergaard I\*// \*Tech Univ Denmark, Dept Biochem & Nutr, Bldg 224, DK-2800 Lyngby, Denmark

*J Agr Food Chem* 1997 **45** (1) 158

Classification of potato varieties using isoelectrophoretic focusing patterns, neural nets, and statistical methods

Kovacs MIP, Poste LM, Butler G, Woods SM, Leisle D, Noll JS, Dahlke G// Agr & Agri-Food Canada, Cereal Res Ctr, 195 Dafoe Rd, Winnipeg, Manitoba, Canada R3T 2M9

*J Cereal Sci* 1997 **25** (1) 65

Durum wheat quality: Comparison of chemical and rheological screening tests with sensory analysis

Montijano H, Borrego F\*, Canales I, Tomas-Barberan FA// \*Zoster SA, Rpt Ferrer, Raiguero 143, E-30588 Zeneta, Murcia, Spain

*J Chromatogr A* 1997 **758** (1) 163

Validated high-performance liquid chromatographic method for quantitation of neohesperidine dihydrochalcone in foodstuffs

Periago MJ, Ros G, Martinez C, Rincon F// Univ Murcia, Dept Food Sci, E-30071 Murcia, Spain

*Food Res Int* 1996 **29** (5-6) 489

Variations of non-protein nitrogen in six Spanish legumes according to the extraction method used

Petri G, Krawczyk U, Kery A// Semmelweis Univ Med, Inst Pharmacognosy, H-1085 Budapest, Hungary

*Microchem J* 1997 **55** (1) 12

Spectrophotometric and chromatographic investigation of bilberry anthocyanins for quantification purposes

Watanabe J, Kawabata J\*, Kurihara H, Niki R// \*Hokkaido Univ, Dept Biosci & Chem, Kita ku, Sapporo, Hokkaido 060, Japan

*Biosci Biotechnol Biochem* 1997 **61** (1) 177

Isolation and identification of  $\alpha$ -glucosidase inhibitors from tochu-cha (*Eucommia ulmoides*)

Windham WR, Kays SE, Barton FE// USDA/ARS, Richard B Russell Agr Res Ctr, POB 5677, Athens, Ga 30613, USA

*J Agr Food Chem* 1997 **45** (1) 140

Effect of cereal product residual moisture content on total dietary fiber determined by near-infrared reflectance spectroscopy