

# Bibliography of analytical, nutritional and clinical methods

(Four weeks journals - Search completed at 7th June 1995)

## 1 BOOKS, REVIEWS & SYMPOSIA

- Borch-Johnsen B// Univ Oslo, Inst Nutr Res, POB 1046, N-0316 Oslo, Norway  
*Analyst* 1995 120 (3) 891  
 Determination of iron status: Brief review of physiological effects on iron measures (Perspective)
- Strasburg GM, Ludescher RD// Michigan State Univ, Dept Food Sci & Human Nutr, East Lansing, Mi 48824, USA  
*Trends Food Sci Technol* 1995 6 (3) 69  
 Theory and applications of fluorescence spectroscopy in food research (Review)

## 2 GENERAL

- Livingstone MBE// Univ Ulster, Human Nutr Res Grp, Cromore Rd, Coleraine BT52 1SA, Londonderry, Northern Ireland  
*Brit J Biomed Sci* 1995 52 (1) 58  
 Assessment of food intakes: Are we measuring what people eat?
- Padmanabhan R// Natl Starch & Chem Corp, Div Adhes, Bridgewater, NJ 08807, USA  
*J Food Eng* 1995 25 (3) 311  
 Measurement of extensional viscosity of viscoelastic liquid foods
- Stroh S// Justus Liebig Univ Giessen, Inst Ernährungswissenschaft, Goethestr 55, D-35390 Giessen, Germany  
*Ernähr-Umsch* 1995 42 (3) 88  
 Methods to determine body composition (Editorial) (German)
- Torrent J, Reverter A, Johnson DE// Colorado State Univ, Dept Anim Sci, Ft Collins, Co 80523, USA  
*J Anim Sci* 1995 73 (4) 1208  
 Technical note: Assessing the consistency of measurement procedures in animal energetics and nutrition

## 3 AMINO ACIDS, PROTEINS & ENZYMES

- Arentson RA, Zimmerman DR\*// \*Iowa State Univ Sci & Technol, Dept Anim Sci, Ames, Ia 50011, USA  
*J Anim Sci* 1995 73 (4) 1077  
 True digestibility of amino acids and protein in pigs with <sup>13</sup>C as a label to determine endogenous amino acid excretion
- Buck M, Boyd J, Redfield C, MacKenzie DA, Jeenes DJ, Archer DB, Dobson CM\*// \*Univ Oxford, Oxford Ctr Molec Sci, New Chem Lab, St Parks Rd, Oxford OX1 3QT, England  
*Biochemistry* 1995 34 (12) 4041  
 Structural determinants of protein dynamics: Analysis of <sup>15</sup>N-NMR relaxation measurements for main-chain and side-chain nuclei of hen egg white lysozyme
- Estevez J, Leiro J, Santamarina MT, Ubeira FM\*// \*Univ Santiago de Compostela, Fac Farm, Parasitol Lab, E-15706 Santiago de Compostela, Spain  
*Vet Immunol Immunopathol* 1995 45 (1-2) 165  
 A sandwich immunoassay to quantify low levels of turbot (*Scophthalmus maximus*) immunoglobulins
- Jakob E, Sievert C, Sommer S, Puhan Z// Swiss Fed Inst Technol, Milchwissenschaft Lab, CH-8092 Zurich, Switzerland  
*Z Lebensmittel-Untersuch Fors* 1995 200 (4) 239  
 Automated determination of total nitrogen in milk by the Dumas method (German, English Abstract)
- Kataoka H, Shindoh S, Makita M// Okayama Univ, Fac Pharmaceut Sci, Okayama 700, Japan  
*J Chromatogr A* 1995 695 (1) 142  
 Determination of secondary amines in various foods by gas chromatography with flame photometric detection
- Kotite L, Bergeron N, Havel RJ\*// \*Univ Calif San Francisco, Cardiovasc Res Inst, San Francisco, Ca 94143, USA  
*J Lipid Res* 1995 36 (4) 890  
 Quantification of apolipoprotein B<sub>100</sub>, B<sub>48</sub>, and E in human triglyceride-rich lipoproteins
- Leyva-Lopez NE, Vasco N, De la Rosa APB, Paredes-Lopez O\*// \*IPN, Ctr Invest & Estud Avanzados, Dept Biotech & Bioquim, Apdo Postal 629, Irapuato 36500, Mexico  
*Plant Food Hum Nutr* 1995 47 (1) 49  
 Amaranth seed proteins: Effect of defatting on extraction yield and on electrophoretic patterns
- Marconi E, Panfili G, Bruschi L, Vivanti V, Pizzoferrato L// Univ Molise, DISTAAM, Via Tiberio 21, I-86100 Campobasso, Italy  
*Amino Acids* 1995 8 (2) 201  
 Comparative study on microwave and conventional methods for protein hydrolysis in food
- Maugeais C, Ouguerram K, Maugeais P, Simoneau C, Gardette J, Magot T, Krempf M\*// \*Hop G&R Laennec, Lab Human Nutr, F-44035 Nantes 01, France  
*J Mass Spectrometry* 1995 30 (3) 478  
 Comparison of [5,5,5,<sup>2</sup>H<sub>3</sub>]leucine and [ring-<sup>2</sup>H<sub>5</sub>]phenylalanine tracers for the measurement of human apolipoprotein B<sub>100</sub> kinetics
- Mazhar H, Chandrashekhar A// Cent Food Technol Res Inst, Dept Microbiol & Bioengn, Molec Biol Unit, Mysore 570013, Karnataka, India  
*J Cereal Sci* 1995 21 (2) 155  
 Quantification and distribution of kafirins in the kernels of *Sorghum* cultivars varying in endosperm hardness
- Moreau S, Awade AC\*, Molle D, Le Graet Y, Brule G// \*INRA, Rech Technol Laitiere Lab, 65 rue St Brieuc, F-35042 Rennes, France  
*J Agr Food Chem* 1995 43 (4) 883  
 Hen egg white lysozyme-metal ion interactions: Investigation by electrospray ionization mass spectrometry
- Ogbonna G, Caines PS, Catomeris P, Thibert RJ\*, Adeli K// \*Univ Windsor, Dept Chem & Biochem, Windsor, Ontario, Canada N9B 3P4  
*Clin Biochem* 1995 28 (2) 117  
 A competitive chemiluminescent immunoassay for the sensitive measurement of apolipoprotein B<sub>100</sub>
- Otte J, Midtgård L, Qvist KB// Royal Vet & Agr Univ, Inst Dairy Res, Howitzvej 11, DK-2000 Frederiksberg, Denmark  
*Milchwissenschaft* 1995 50 (2) 75  
 Analysis of caseinomacropeptide(s) by free solution capillary electrophoresis
- Parr EL, Bozzola JJ, Parr MB// Stth Illinois Univ, Dept Anat, Carbondale, IL 62901, USA  
*J Immunol Method* 1995 180 (2) 147  
 Purification and measurement of secretory IgA in mouse milk
- Plumb GW, Lambert N, Mills ENC, Tatton MJ, Dursel CCM, Bogracheva T, Morgan MRA// AFRC Inst Food Res, Dept Food Molec Biochem, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England  
*J Sci Food Agr* 1995 67 (4) 511  
 Characterisation of monoclonal antibodies against β-conglycinin from soya bean (*Glycine max*) and their use as probes for thermal denaturation
- Schofield JD, Chen X// Kings Coll London, Div Life Sci, Campden Hill Rd, London W8 7AH, England

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.

- J Cereal Sci* 1995 21 (2) 127  
Analysis of free reduced and free oxidised glutathione in wheat flour
- Sundvall J, Sulonen GB, Hiltunen O, Kiuru J, Pursiainen M, Jauhainen M// \*Natl Publ Hlth Inst, Dept Biochem, Mannerheimintie 166, SF-00300 Helsinki, Finland  
*Scand J Clin Lab Invest* 1995 55 (2) 171  
Comparison of a new immunoturbidometric assay of human serum lipoprotein(a) to the ELISA and the IRMA methods
- Wright A, Orman B// Iowa State Univ Sci & Technol, Exseed Genet LLC, 1573 Food Sci Bldg, Ames, Ia 50011, USA  
*Crop Sci* 1995 35 (2) 584  
Rapid screening procedure for methionine levels in maize and soybean
- Zhang NY, Jones BL// USDA ARS, Cereal Crops Res Unit, 501 Nth Walnut St, Madison, Wi 53705, USA  
*J Cereal Sci* 1995 21 (2) 145  
Characterization of germinated barley endoproteolytic enzymes by two-dimensional gel electrophoresis
- ## 4 CARBOHYDRATES
- Bello-Perez LA, Paredes-Lopez O// \*IPN, Ctr Invest Estud Avanzados, Dept Biotechnol & Bioquim, Apartado Postal 629, Irapuato 36500, Mexico  
*Starch* 1995 47 (3) 83  
Effects of solutes on retrogradation of stored starches and amylopectins: A calorimetric study
- Bento LS// Refinarias Acucar Reunidas SA, Apt 1067, P-4101 Oporto, Portugal  
*Zuckerindustrie* 1995 120 (2) 123  
Separation of sugar colorants using chromatographic columns containing sucrose crystals (German, English Abstract)
- Delwiche SR, Bean MM, Miller RE, Webb BD, Williams PC// USDA ARS, Beltsville Agr Res Ctr, Beltsville, Md 20705, USA  
*Cereal Chem* 1995 72 (2) 182  
Apparent amylose content of milled rice by near-infrared reflectance spectrophotometry
- Greenway GM, Kometa N// Univ Hull, Sch Chem, Hull, HU6 7RX, England  
*Food Chem* 1995 53 (1) 105  
The determination of sugars in beverages and medicines using on-line dialysis for sample preparation
- Kerkvliet JD, Shrestha M, Tuladhar K, Manandhar H// Food Inspect Serv, Reg Inspect Hlth Protect, Hooge Kadijk 401, 1018 BK Amsterdam, The Netherlands  
*Apidologie* 1995 26 (2) 131  
Microscopic detection of adulteration of honey with cane sugar and cane sugar products
- Le Botlan D, Desbois P// Fac Sci Nantes, Lab RMN & React Chim, CNRS, URA 472, Nantes, France  
*Cereal Chem* 1995 72 (2) 191  
Starch retrogradation study in presence of sucrose by low-resolution nuclear magnetic resonance
- Masuda M, Handa M, Sagara K// Taisho Pharmaceut Co Ltd, OTC Res Ctr, 1-403 Yoshino cho, Omiya, Saitama 330, Japan  
*Bunseki Kagaku* 1995 44 (4) 271  
HPLC determination of inositol in multivitamin preparation containing large amounts of sugars (Japanese, English Abstract)
- Morgan JE, Williams PC// Address not available.  
*Cereal Chem* 1995 72 (2) 209  
Starch damage in wheat flours: A comparison of enzymatic, iodometric, and near-infrared reflectance techniques
- Rambal C, Pachiaudi C, Normand S, Riou JP, Louisot P, Martin A// Lyon Sud Med Sch, Dept Biochem, Ctr Rech Nutr Humaine Lyon, INSERM CNRS U189, BP 12, F-69921 Oullins, France  
*Brit J Nutr* 1995 73 (3) 443  
Effects of specific dietary sugars on the incorporation of <sup>13</sup>C label from dietary glucose into neutral sugars of rat intestine and serum glycoproteins
- ## 5 LIPIDS
- Adlof RO// USDA ARS, Natl Ctr Agr Utilizat Res, 1815 Nth Univ St, Peoria, Il 61604, USA  
*J High Res Chromatogr* 1995 18 (2) 105  
Analysis of triacylglycerol positional isomers by silver ion high performance liquid chromatography
- Arneth W// Inst Chem & Phys Bundesanstalt Fleischforschung, EC Bau-  
mann Str 20, D-95326 Kulmbach, Germany  
*Fleischwirtschaft* 1995 75 (2) 185  
Cholesterol: Determination in muscle, adipose tissue, and in offal by HPLC (German)
- Bittner A, Marbach R, Heise HM// Inst Spektrochem & Angew Spektroskopie, Bunsen Kirchhoff Str 11, D-44139 Dortmund, Germany  
*J Mol Struct* 1995 349 341  
Multivariate calibration for protein, cholesterol and triglycerides in human plasma using short-wave near infrared spectrometry
- Christie WW, Urwin RA// Scottish Crop Res Inst, Dundee DD2 5DA, Scotland  
*J High Res Chromatogr* 1995 18 (2) 97  
Separation of lipid classes from plant tissues by high-performance liquid chromatography on chemically bonded stationary phases
- Descomps B, Michel F, Fouret G, El-Boustani S, Monnier L, Leger CL// Univ Montpellier I, Fac Med, Inst Biol, Biol & Biochim Lipides Lab, Blvd Henri IV, F-34000 Montpellier, France  
*Oleagineux Corps Gras Lipides* 1995 2 (1) 30  
Using stable isotopes to study bioconversion of polyunsaturated fatty acids in man
- Diehl BWK, Ockels W// Spectral Serv GmbH, Postfach 30 11 86, D-50781 Cologne, Germany  
*Fett Wiss Technol* 1995 97 (3) 115  
Fatty acid distribution by <sup>13</sup>C-NMR spectroscopy (German, English Abstract)
- Dvorkin VI, Karinova IN// Natl Res Ctr Prevent Med, Petroverigskii per 10, Moscow 101953, Russia  
*J Anal Chem-Engl Tr* 1995 50 (3) 226  
Method for assessing the applicability of reference materials in determining total cholesterol in blood serum
- Fillieres R, Benjelloun-Mlayah B, Delmas M// Ecole Natl Super Chim, Inst Natl Polytech Toulouse, Unite Rech Fibres Energie Biomonomeres, F-31077 Toulouse, France  
*J Amer Oil Chem Soc* 1995 72 (4) 427  
Ethanolysis of rapeseed oil: Quantitation of ethyl esters, mono-, di-, and triglycerides and glycerol by high-performance size-exclusion chromatography
- Ingalls ST, Xu Y, Hoppel CL// \*Vet Adm Med Ctr, 10701 East Blvd, Cleveland, Oh 44106, USA  
*J Chromatogr B-Biomed Appl* 1995 666 (1) 1  
Determination of plasma non-esterified fatty acids and triglyceride fatty acids by gas chromatography of their methyl esters after isolation by column chromatography on silica gel
- Lai YW, Kemsley EK, Wilson RH// \*AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England  
*Food Chem* 1995 53 (1) 95  
Quantitative analysis of adulterants of extra virgin olive oil using infrared spectroscopy
- Murphy JL, Jones A, Brookes S, Wootton SA// \*Univ Southampton, Dept Human Nutr, Bassett Crescent East, Southampton SO16 7PX, England  
*Lipids* 1995 30 (4) 291  
The gastrointestinal handling and metabolism of [1-<sup>13</sup>C]palmitic acid in healthy women
- Nikolova-Damyanova B, Christie WW\*, Hersløf BG// \*Scottish Crop Res Inst, Dundee DD2 5DA, Scotland  
*J Chromatogr A* 1995 694 (2) 375  
Retention properties of triacylglycerols on silver ion high-performance liquid chromatography
- Redden PR, Huang YS, Lin XR, Horrobin DF// EFAMOL Res Inst, Kentville, Nova Scotia, Canada B4N 4H8  
*J Chromatogr A* 1995 694 (2) 381  
Separation and quantification of the triacylglycerols in evening primrose and borage oils by reversed-phase high-performance liquid chromatography
- Rose-Sallin C, Huggett AC, Bosset JO, Tabacchi R, Fay LB// \*Nestec Ltd, Nestle Res Ctr, Vers Chez les Blanc, POB 44, CH-1000 Lausanne, Switzerland  
*J Agr Food Chem* 1995 43 (4) 935  
Quantification of cholesterol oxidation products in milk powders using [<sup>2</sup>H]<sub>n</sub>cholesterol to monitor cholesterol autoxidation artifacts
- Singleton JA, Stikeleather LF// Nth Carolina State Univ, USDA ARS, Dept Biol & Agr Engn, 280 Weaver Bldg, Raleigh, NC 27695, USA  
*J Amer Oil Chem Soc* 1995 72 (4) 481  
High-performance liquid chromatography analysis of peanut phospholipids. I. Injection system for simultaneous concentration and separation of phospholipids
- Singleton JA, Stikeleather LF// Address as above.

- J Amer Oil Chem Soc* 1995 **72** (4) 485  
High-performance liquid chromatography analysis of peanut phospholipids. II. Effect of postharvest stress on phospholipid composition
- Surel O, Ducruet V\*, Fanelart MH, Lamberet G// \*INRA, Nutr Secur Alimentaire Lab, F-78352 Jouy en Josas, France  
*Analisis* 1995 **23** (1) 31  
Quantification of lipids in low fat content dairy products with light-scattering detector (French, English Abstract)
- Wan PJ, Pakarinen DR// USDA ARS, Sthn Reg Res Ctr, 1100 Robert E Lee Blvd, New Orleans, La 70124, USA  
*J Amer Oil Chem Soc* 1995 **72** (4) 455  
Comparison of visual and automated colorimeter for refined and bleached cottonseed oils
- Wolff JP// Address not available.  
*Oleagineux Corps Gras Lipides* 1995 **2** (1) 18  
The development of analytical techniques and its consequences
- Yao T, Satomura M, Nakahara T// Univ Osaka Prefecture, Coll Engn, Dept Appl Chem, Gakuen cho, Sakai, Osaka 593, Japan  
*Electroanal* 1995 **7** (2) 143  
Simultaneous assays of glucose, urate, and cholesterol in blood serum by amperometric flow injection analysis
- ## 6 VITAMINS & CO-FACTORS
- Barua AB, Kostic D, Barua M, Olson JA// Iowa State Univ Sci & Technol, Dept Biochem & Biophys, Ames, Ia 50011, USA  
*J Liq Chromatogr* 1995 **18** (7) 1459  
Determination of retinol and retinoic acid in capillary blood by high-performance liquid chromatography
- Bempong DK, Honigberg IL\*, Meltzer NM// \*Univ Georgia, Coll Pharm, Athens, Ga 30605, USA  
*J Pharmaceut Biomed Anal* 1995 **13** (3) 285  
Normal phase LC-MS determination of retinoic acid degradation products
- Blanco M, Coello J, Iturriaga H, MasPOCH S, Pages J// Univ Autonoma Barcelona, Unidad Quim Analit, Dept Quim, E-08193 Barcelona, Spain  
*Anal Lett* 1995 **28** (5) 821  
FIA fluorimetric determination of calcium pantothenate. Validation and quantitation in multivitamin preparations
- Bruno MJ, Hoek FJ, Delzenne B, Van Leeuwen DJ, Schteingart CD, Hofmann AF, Tytgat GNJ// Univ Amsterdam, Acad Med Ctr, Dept Gastroenterol & Hepatol, Meibergdreef 9, 1105 AZ Amsterdam, The Netherlands  
*Clin Chem* 1995 **41** (4) 599  
Simultaneous assessments of exocrine pancreatic function by cholesteryl-[<sup>14</sup>C]octanoate breath test and measurement of plasma *p*-aminobenzoic acid
- Hart JP, Norman MD, Tsang S// Univ West England, Fac Sci Appl, Cold-harbour Lane, Bristol BS16 1QY, England  
*Analyst* 1995 **120** (4) 1059  
Voltammetric behaviour of vitamin B<sub>1</sub> (thiamine) at a glassy carbon electrode and its determination in multivitamin tablets using anion-exchange liquid chromatography with amperometric detection under basic conditions
- Lefebvre P, Agadir A, Cornic M, Gourmet B, Hue B, Dreux C, Degos L, Chomienne C// Hop St Louis, Biochim & Neurobiol Lab, 1 Ave Claude Vellefaux, F-75475 Paris 10, France  
*J Chromatogr B-Biomed Appl* 1995 **666** (1) 55  
Simultaneous determination of all-trans and 13-cis retinoic acids and their 4-oxo metabolites by adsorption liquid chromatography after solid-phase extraction
- Mendes RL, Fernandes HL, Coelho JP, Reis EC, Cabral JMS, Novais JM, Palavra AF// INETI, Dept Energias Renovaveis, Estrada Paco Lumiar, Azinhaga Lameiros, P-1699 Lisbon, Portugal  
*Food Chem* 1995 **53** (1) 99  
Supercritical CO<sub>2</sub> extraction of carotenoids and other lipids from *Chlorella vulgaris*
- Sampson DA, Eoff LA, Yan XL, Lorenz K// Colorado State Univ, Dept Food Sci & Human Nutr, Ft Collins, Co 80523, USA  
*Cereal Chem* 1995 **72** (2) 217  
Analysis of free and glycosylated vitamin B<sub>6</sub> in wheat by high-performance liquid chromatography
- Scalia S, Roberto G, Bonina F// Univ Catania, Ist Chim Farmaceut, Via A Doria 6, I-95125 Catania, Italy  
*J Pharm Sci* 1995 **84** (4) 433  
Determination of vitamin A, vitamin E, and their esters in tablet preparations using supercritical fluid extraction and HPLC
- Scalia S, Renda A, Roberto G, Bonina F, Menegatti E// Univ Catania, Ist Chim Farmaceut, I-95125 Catania, Italy
- J Pharmaceut Biomed Anal* 1995 **13** (3) 273  
Assay of vitamin A palmitate and vitamin E acetate in cosmetic creams and lotions by supercritical fluid extraction and HPLC
- Thompson CO, Trencerry VC// \*Australian Govt Analyt Labs, 338-340 Tapleys Hill Rd, Seaton, SA 5023, Australia  
*Food Chem* 1995 **53** (1) 43  
A rapid method for the determination of total L-ascorbic acid in fruits and vegetables by micellar electrokinetic capillary chromatography
- Torrado S, Caballero EJ, Cadorniga R, Torrado J// Univ Complutense Madrid, Fac Farm, Dept Farm & Tecnol Farmaceut, Avda Complutense s/n, E-28040 Madrid, Spain  
*J Liq Chromatogr* 1995 **18** (6) 1251  
A selective liquid chromatography assay for the determination of d1- $\alpha$ -tocopherol acetate in plasma samples
- Vieth R, Chan A, Pollard A// Univ Toronto, Banting Inst, Dept Clin Biochem, Toronto, Ontario, Canada M5G 1L5  
*Clin Biochem* 1995 **28** (2) 175  
<sup>125</sup>I-RIA kit cannot distinguish vitamin D deficiency as well as a more specific assay for 25-hydroxyvitamin D
- ## 7 TRACE ELEMENTS & MINERALS
- Bergdahl IA, Schutz A, Hansson GA// Univ Lund Hosp, Dept Occupat & Environ Med, S-22185 Lund, Sweden  
*Analyst* 1995 **120** (4) 1205  
Automated determination of inorganic mercury in blood after sulfuric acid treatment using cold vapour atomic absorption spectrometry and an inductively heated gold trap
- Carnell JA, Powell JJ\*, Thompson RPH, Crocker PR, Watt F// \*St Thomas' Hosp, Rayne Inst, Gastrointestinal Lab, London SE1 7EH, England  
*Analyst* 1995 **120** (3) 783  
Elemental hair analysis using nuclear microscopy and X-ray energy dispersive spectroscopy
- Chlopicka J, Zagrodzki P\*, Zachwieja Z, Krosniak M, Folta M// \*Coll Med Jagiellonian Univ, Dept Food Chem & Nutr, Podchorazych 1, PL-30084 Krakow, Poland  
*Analyst* 1995 **120** (3) 943  
Use of pattern recognition methods in the interpretation of heavy metal content (lead and cadmium) in children's scalp hair
- Chow PYT, Chua TH, Tang KF, Ow BY// Inst Sci & Forens Med, Dept Sci Serv, Outram Rd, Singapore 0316, Singapore  
*Analyst* 1995 **120** (4) 1221  
Dilute acid digestion procedure for the determination of lead, copper and mercury in traditional Chinese medicines by atomic absorption spectrometry
- Cokesa DJM, Markovic MM, Solesa MI, Adzic PR, Skoro GP, Milonjic SK, Kukoc AH// Inst Nucl Sci Vinca, POB 522, YU-11001 Belgrade, Yugoslavia  
*J Radiaoanal Nucl Chem Lett* 1995 **199** (6) 465  
Determination of <sup>40</sup>K and <sup>137</sup>Cs concentration in selected honey samples
- Danielsson LG, Sparre A\*, Glynn AW// \*Royal Inst Technol, Div Analyt Chem, S-10044 Stockholm, Sweden  
*Analyst* 1995 **120** (3) 713  
Aluminium fractionation in a simulated rat stomach: An *in vitro* study
- Delgado-Zamarreno MM, Sanchez-Perez A, Gomez-Perez MC, Hernandez Mendez J// Univ Salamanca, Fac Chem, Dept Analyt Chem Nutr & Food Sci, E-37008 Salamanca, Spain  
*J Chromatogr A* 1995 **694** (2) 399  
Directly coupled sample treatment high-performance liquid chromatography for on-line automatic determination of liposoluble vitamins in milk
- Feldman BJ, D'Alessandro A, Osterloh JD, Hata BH// Univ Calif San Francisco, San Francisco Gen Hosp, Met Lab, Ward 35, 1001 Potrero Ave, San Francisco, Ca 94110, USA  
*Clin Chem* 1995 **41** (4) 557  
Electrochemical determination of low blood lead concentrations with a disposable carbon microarray electrode
- Fordham PJ, Gramshaw JW, Castle L, Crews HM, Thompson D, Parry SJ, McCurdy ED// Univ Leeds, Procter Dept Food Sci, Leeds LS2 9JT, England  
*J Anal Atom Spectrom* 1995 **10** (4) 303  
Determination of trace elements in food contact polymers by semi-quantitative inductively coupled plasma mass spectrometry. Performance evaluation using alternative multi-element techniques and in-house polymer reference materials
- Itoh M, Ohmichi M, Suzuki KT// Chiba Univ, Fac Pharmaceut Sci, 1-33 Yayoi cho, Chiba 263, Japan

- Jpn J Toxicol Environ Health* 1994 41 (1) P47  
Detection of metabolites of selenite labeled with stable isotope by HPLC/ICP-MS
- Kobayashi R, Imaizumi K, Kudo M// Japan Ind Safety & Hlth Assoc, Ctr Occupat Hlth Serv, 5-35-1 Shiba, Tokyo 108, Japan  
*Anal Sci* 1995 11 (2) 267
- Determination of silicon in urine by graphite-furnace atomic absorption spectrometry with a nickel chloride modifier
- Kuusima-Kursula P, Raisanen J, Donner J// Univ Helsinki, Dept Phys, Sil-tavuoren-penger 20D, SF-00170 Helsinki, Finland  
*Nucl Instrum Meth Phys Res B* 1995 95 (4) 523
- PIXE-method determination of the elemental composition of the European oyster *Ostrea edulis*
- Liu RM, Zhang AM, Liu DJ, Wang SH// Liacheng Teachers Coll, Dept Chem, Shandong, Peoples Rep China  
*Analyst* 1995 120 (4) 1195
- Determination of manganese in Chinese tea leaves by a catalytic kinetic spectrophotometric method
- Luterotti S// Univ Zagreb, Fac Pharm & Biochem, Dept Analyt Chem, a Kovacica 1, Zagreb 41000, Croatia  
*Analyst* 1995 120 (3) 925
- Matrix effects in the determination of zinc(II) ion in whole rat liver by flame atomic absorption spectrometry
- Mathieu C, Mathieu H// Lab Specialise Anal Biol Med, 147 rue Riviere, F-33000 Bordeaux, France  
*Clin Chem* 1995 41 (4) 625
- Aluminium in serum determined by HPLC (Letter)
- Miller-Ihli NJ// USDA, Beltsville Human Nutr Res Ctr, Food Composit Lab, Beltsville, Md 20705, USA  
*J Agr Food Chem* 1995 43 (4) 923
- Evaluation of a graphite furnace atomic absorption method developed for the determination of lead in sugars
- Minami T, Ichii M, Okazaki Y// Kinki Univ, Fac Pharmaceut Sci, 3-4-1 Kowakae, Osaka 577, Japan  
*Biol Tr Elem Res* 1995 48 (1) 37
- Comparison of three different methods for measurement of tissue platinum level
- Miyashita M, Yamashita S// Hoshi Coll Pharm, Dept Clin Chem, Shinagawa ku, 2-4-41 Ebara, Tokyo 142, Japan  
*Jpn J Toxicol Environ Health* 1994 40 (5) 472
- Determination of total iodine in iodine-enriched egg by oxygen flask combustion (Japanese, English Abstract)
- Moreira FDR, Curtius AJ, De Campos RC\*// \*Pontificia Univ Catolica, Dept Quim, Rio de Janeiro, Brazil  
*Analyst* 1995 120 (3) 947
- Determination of cadmium in whole blood and urine by electrothermal atomic absorption spectrometry using palladium-based modifiers and *in situ* decontamination
- Nakamura T, Kusata T, Matsumoto H, Sato J// Meiji Univ, Sch Sci & Technol, Dept Ind Chem, Tama ku, 1-1-1 Higashimita, Kawasaki, Kanagawa 214, Japan  
*Anal Biochem* 1995 226 (2) 256
- Atomic absorption spectrometric determination of cadmium and lead in human and artificial teeth by direct atomization technique
- Nan Y, Tian HG\*, Shao RC, Hu G, Dong QN, Pietinen P, Nissinen A// \*Univ Kuopio, Dept Community Hlth & Gen Practice, POB 1627, SF-70211 Kuopio, Finland  
*Eur J Clin Nutr* 1995 49 (4) 299
- Assessment of sodium and potassium in processed foods in an urban area in China
- Owen LMW, Crews HM, Massey RC, Bishop NJ// MAFF, CSL Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England  
*Analyst* 1995 120 (3) 705
- Determination of copper, zinc and aluminium from dietary sources in the femur, brain and kidney of guinea pigs and a study of some elements in *in vivo* intestinal digesta by size-exclusion chromatography/inductively coupled plasma mass spectrometry
- Salvato N, Pirola C// Plasmon Dietet Alimentari SPA, Via Cadolini 26, I-20137 Milan, Italy  
*Ind Aliment* 1994 33 (332) 1229
- Analysis of mercury traces by means of solid sample atomic absorption spectrometry (Italian, English Abstract)
- Sanz-Medel A// Univ Oviedo, Fac Chem, Dept Phys & Analyt Chem, E-33006 Oviedo, Spain  
*Analyst* 1995 120 (3) 799
- Beyond total element analysis of biological systems with atomic spectroscopic techniques
- Tahan JE, Sanchez JM, Granadillo VA, Cubillan HS, Romero RA\*// \*Apartado Postal 15202, Maracaibo 4003A, Venezuela  
*J Agr Food Chem* 1995 43 (4) 910
- Concentration of total Al, Cr, Cu, Fe, Hg, Na, Pb, and Zn in commercial canned seafood determined by atomic spectrometric means after mineralization by microwave heating
- Tsuda K, Namba H, Nomura T\*, Yokoyama N, Yamashita S, Izumi M, Nagataki S// \*Nagasaki Univ, Sch Med, Inst Atom Dis, Dept Internal Med 1, 1-7-1 Sakamoto, Nagasaki 852, Japan  
*Clin Chem* 1995 41 (4) 581
- Automated measurement of urinary iodine with use of ultraviolet irradiation
- Watt F, Landsberg JP, Powell JJ\*, Ede RJ, Thompson RPH, Cargnello JA// \*Univ Oxford, Nucl Phys Lab, Scanning Proton Microprobe Unit, Keble Rd, Oxford OX1 3RH, England  
*Analyst* 1995 120 (3) 789
- Analysis of copper and lead in hair using the nuclear microscope: Results from normal subjects, and patients with Wilson's disease and lead poisoning
- Wrobel K, Gonzalez EB, Wrobel K, Sanz Medel A\*// \*Univ Oviedo, Fac Chem, Dept Phys & Analyt Chem, C/ Julian Claveria 8, E-33006 Oviedo, Spain  
*Analyst* 1995 120 (3) 809
- Aluminium and silicon speciation in human serum by ion-exchange high-performance liquid chromatography/electrothermal atomic absorption spectrometry and gel electrophoresis

## 8 DRUG, BIOCIDE & PROCESSING RESIDUES

- Akhtar MH, Danis C, Sauve A, Barry C// Agr & AgriFood Canada, Ctr Food & Anim Res, Res Branch, Ottawa, Ontario, Canada K1A 0C6  
*J Chromatogr A* 1995 696 (1) 123
- Gas chromatographic determination of incurred chloramphenicol residues in eggs following optimal extraction
- Albeda C, Pico Y, Molto JC, Font G, Manes J// Univ Valencia, Fac Farm, Toxicol Lab, Avda Vicent Andres Estelles s/n, E-46100 Burjassot, Spain  
*Int J Environ Anal Chem* 1994 58 (1-4) 315
- Evaluation of the fate of aldicarb and its metabolites in oranges
- Aubourg S, Medina I, Perez-martin R// CSIC, Inst Invest Marinas, C/ Eduardo Cabello 6, E-36208 Vigo, Spain  
*Z Lebensmittel-Untersuch Fors* 1995 200 (4) 252
- A comparison between conventional and fluorescence detection methods of cooking-induced damage to tuna fish lipids
- Barinova ES, Brodskii ES, Koverzanova EV, Usachev SV// Russian Acad Sci, Semenov Inst Chem Phys, ul Kosygin 4, Moscow 117977, Russia  
*J Anal Chem-Engl Tr* 1995 50 (3) 294
- Determination of residual quantities of chlorinated pesticides in potatoes by chromatography/mass spectrometry
- Blanchflower WJ, Kennedy DG// Dept Agr, Div Vet Sci, Belfast BT4 3SD, Northern Ireland  
*Analyst* 1995 120 (4) 1129
- Determination of lasalocid in eggs using liquid chromatography-electrospray mass spectrometry
- Cai Y, Bayona JM\*// \*CSIC, CID, Dept Environm Chem, Jordi Girona 18-26, E-08034 Barcelona, Spain  
*J Chromatogr A* 1995 696 (1) 113
- Determination of methylmercury in fish and river water samples using *in situ* sodium tetraethylborate derivatization followed by solid-phase micro-extraction and gas chromatography/mass spectrometry
- Carvalho F, Bastos ML, Remiao F, Ferreira MA// Univ Oporto, Fac Farm, Toxicol Lab, P-4000 Oporto, Portugal  
*Amer J Enol Viticult* 1995 46 (1) 63
- Determination of oxalates in cork stoppers by HPLC with electrochemical detection
- Cinquina AL, Di Lullo A, Fiorucci F, Calderini P, Cozzani R// Ist Zool-profilatl Sperimentale Reg Lozio & Toscana, Via Appia Nuova N 1411, I-00178 Rome, Italy  
*Ind Aliment* 1995 34 (334) 117
- Simultaneous determination of benzimidazoles in sheep and goat milk by HPLC with diode array detector
- Cooper AD, Creaser CS, Farrington WHH, Tarbin JA, Shearer G// MAFF, Food Sci Lab, Norwich Res Pk, Norwich NR4 7UQ, England  
*Food Addit Contam* 1995 12 (2) 167
- Development of multi-residue methodology for the HPLC determination of veterinary drugs in animal tissues
- Cooper I, Tice PA// PIRA Int, Randalls Rd, Leatherhead KT22 7RU, Sur-

- rey, England  
*Food Addit Contam* 1995 **12** (2) 235
- Migration studies on fatty acid amide slip additives from plastics into food simulants
- Dobson G, Christie WW, Brechany EY, Sebedio JL, Le Quere JL// Scottish Crop Res Inst, Dundee DD2 5DA, Scotland  
*Chem Phys Lipids* 1995 **75** (2) 171
- Silver ion chromatography and gas chromatography/mass spectrometry in the structural analysis of cyclic dienoic acids formed in frying oils
- Driss MR, Zafzouf M, Sabbah S, Bouguerra ML\*// \*Fac Sci Tunis, Dept Chim, Campus Univ, Tunis 1060, Tunisia  
*Int J Environ Anal Chem* 1994 **57** (1) 63
- Simplified procedure for organochlorine pesticides residue analysis in honey
- Escolar D, Haro MR, Saucedo A, Ayuso J, Jimenez A, Alvarez JA// Univ Cadiz, Dept Quim Fis, Apdo 40, E-11510 Puerto Real, Spain  
*Amer J Enol Viticult* 1995 **46** (1) 138
- Discoloring process in sherry wines studied by means of chromatic parameters
- Gaetani E, Laureri C, Vitto M// Univ Parma, Dipt Farmaceut, Viale Sci, I-43100 Parma, Italy  
*J Pharmaceut Biomed Anal* 1995 **13** (3) 335
- GC-ITD detection and quantitative analysis of proxazole in cows' plasma and milk
- Goicolea MA, De Balugera ZG, Portela MJ, Barrio RJ// Univ Basque Country, Fac Pharm, Dept Analyt Chem, E-01006 Vitoria, Spain  
*Anal Chim Acta* 1995 **305** (1-3) 310
- Determination of *N*-nitrosopiperidine in beers by liquid chromatography with reductive amperometric detection at a hanging mercury drop electrode
- Gomez-Ariza JL, Morales E, Beltran R, Giraldez I, Ruiz-Benitez M// Univ Huelva, Escuela Politecn Super, Dept Quim & Ciencia Mat, Huelva, Spain  
*Analyst* 1995 **120** (4) 1171
- Ultrasonic treatment of molluscan tissue for organotin speciation
- Gramshaw JW, Vandenburg HJ, Lakin RA// Univ Leeds, Procter Dept Food Sci, Leeds LS2 9JT, England  
*Food Addit Contam* 1995 **12** (2) 211
- Identification of potential migrants from samples of dual-ovenable plastics
- Gramshaw JW, Vandenberg HJ// Address as above.  
*Food Addit Contam* 1995 **12** (2) 223
- Compositional analysis of samples of thermoset polyester and migration of ethylbenzene and styrene from thermoset polyester into pork during cooking
- Hale RC, Gaylor MO// Virginia Inst Marine Sci, Coll William & Mary, Sch Marine Sci, Dept Environ Sci, Gloucester Point, Va 23062, USA  
*Environ Sci Technol* 1995 **29** (4) 1043
- Determination of PCBs in fish tissues using supercritical fluid extraction
- Hirayama T, Kamata K, Kasai T, Watanabe T// Kyoto Pharmaceut Univ, Yamashina ku, 5 Nakauki cho, Kyoto 607, Japan  
*Jpn J Toxicol Environ Health* 1994 **40** (6) 574
- Determination of saturated aliphatic aldehydes in edible oil by acetylacetone method high-performance liquid chromatography (Japanese, English Abstract)
- Hormazabal V, Yndestad M// Norwegian Coll Vet Med, Div Food Hyg, POB 8146 Dep, N-0033 Oslo 1, Norway  
*J Liq Chromatogr* 1995 **18** (6) 1231
- Determination of praziquantel in medicated fish feed and sediment by HPLC
- Ishiwata H, Takeda Y, Yamada T, Watanabe Y, Hosagai T, Ito S, Sakurai H, Aoki G, Ushijima N// Natl Inst Hlth Sci, Setagaya ku, 1-18-1 Kamiyoga, Tokyo 158, Japan  
*Food Addit Contam* 1995 **12** (2) 281
- Determination and confirmation of methyl *p*-hydroxybenzoate in royal jelly and other foods produced by the honey bee
- Kotiaho T, Gylling S, Lundin A, Lauritsen FR// VTT, KET, POB 1401, SF-02044 Espoo, Finland  
*J Agr Food Chem* 1995 **43** (4) 928
- Direct determination of styrene and tetrachloroethylene in olive oil by membrane inlet mass spectrometry
- Lau OW, Wong SK, Leung KS// Chinese Univ Hong Kong, Dept Chem, Sha Tin, Hong Kong  
*Analyst* 1995 **120** (4) 1125
- Naphthalene contamination of sterilized milk drinks contained in low-density polyethylene bottles. II. Effect of naphthalene vapour in air
- Lee CP, Blackburn R, Baugh PJ// Univ Salford, Inst Informat Technol, Salford MS 4WT, England
- Radiat Phys Chem* 1995 **45** (5) 719
- Computer coupled ESR spectroscopy with specific application to the detection of irradiated food products
- Leoni V, Caricchia AM, Cremisini C, Chiavarini S, Fabiani L, Morabito R, Rodolico S, Vitali M// Univ Roma La Sapienza, Cattedra Igiene Ambientale, Piazzale Aldo Moro 5, I-00185 Rome, Italy  
*Int J Environ Anal Chem* 1994 **58** (1-4) 411
- Levels of pesticide residues in food: Evaluation of data from total diet studies in Italy
- Ling YC, Huang IP// Natl Tsing Hua Univ, Dept Chem, Hsinchu 30043, Taiwan  
*J Chromatogr A* 1995 **695** (1) 75
- Multi-residue matrix solid-phase dispersion method for the determination of six synthetic pyrethroids in vegetables followed by gas chromatography with electron capture detection
- Ling YC, Huang IP// Natl Tsing Hua Univ, Dept Chem, Hsinchu 30043, Taiwan  
*Chromatographia* 1995 **40** (5-6) 259
- Multiresidue-matrix solid-phase dispersion method for determining 16 organochlorine pesticides and polychlorinated biphenyls in fish
- Martinez RC, Gonzalo ER, Fernandez EH, Mendez JH// Univ Salamanca, Dept Quim Analit Nutr & Bromatol, E-37008 Salamanca, Spain  
*Anal Chim Acta* 1995 **304** (3) 323
- Membrane extraction-preconcentration cell coupled on-line to flow-injection and liquid chromatographic systems. Determination of triazines in oils
- Moats WA, Harik-Khan R// USDA ARS, Beltsville Agr Res Ctr, Meat Sci Res Lab, Beltsville, Md 20705, USA  
*J Agr Food Chem* 1995 **43** (4) 931
- Rapid HPLC determination of tetracycline antibiotics in milk
- Molinari GP, Fontana G, Carrara G// Fac Agr Piacenza, Ist Chim Agr & Ambientale, Via Emilia Parmense 84, I-29100 Piacenza, Italy  
*Food Addit Contam* 1995 **12** (2) 195
- Evaluation of herbicide migration from water to Gorgonzola and Mozzarella cheeses in industrial processing
- Morales FJ, Romero C, Jimenez-Perez S// Unidad Prod Lacteos, CSIC, Inst Frio, Ciudad Univ s/n, E-28040 Madrid, Spain  
*J Food Protect* 1995 **58** (3) 310
- New methodologies for kinetic study of 5-(hydroxymethyl)-furfural formation and reactive lysine blockage and heat-treated milk and model systems
- Poustka J, Hajslava J, Holadova K// Prague Inst Chem Technol, Dept Food Chem & Anal, Technicka 3, CR-16628 Prague, Czech Republic  
*Int J Environ Anal Chem* 1994 **57** (1) 83
- The comparison of elution profiles of polychlorinated biphenyls and fats in various gel permeation chromatographic systems
- Rangaswamy JR, Gunasekaran N// Cent Food Technol Res Inst, Dept Infest Control & Protectants, Mysore 570013 Karnataka, India  
*J Food Sci Technol-Mysore* 1995 **32** (1) 42
- A spectrophotometric method for phosphine residue determination in legumes
- Rose MD, Bygrave J, Tarbin JA// MAFF, Food Sci Lab, Norwich Res Pk, Colney Lane, Norwich NR4 7UQ, England  
*Food Addit Contam* 1995 **12** (2) 177
- Determination of quinoxaline carboxylic acid (metabolite of carbadox) in animal tissue by HPLC
- Scussel VM// Univ Fed Santa Catarina, Ctr Ciencias Agrarias, Dept Cien&cia & Tecnol Alimentos, CP 476, Florianopolis, SC, Brazil  
*Int J Environ Anal Chem* 1994 **58** (1-4) 73
- Separation of imazalil and T824 in cucurbits. I. Comparison of HPLC reversed-phase columns
- Serpé L, Gallo P, De Grado G// Ist Zooprofilatt Sperimentale Mezzogiorno, Via Salute 2, I-80055 Portici, Italy  
*Ind Aliment* 1994 **33** (332) 1253
- Formaldehyde determination in foods (Italian, English Abstract)
- Shaikh B, Jackson J, Thaker NH// US FDA, BARC-E, Ctr Vet Med, Beltsville, Md 20705, USA  
*J Vet Pharmacol Ther* 1995 **18** (2) 150
- Neomycin residues in kidneys of orally dosed non-ruminating calves determined by high-performance liquid chromatographic and microbiological assay methods
- Tuinstra LGMT, Van De Spreng P, Gaikhorst P// State Inst Qual Control Agr Prod, RIKILT, DLO, POB 230, 6700 AE Wageningen, The Netherlands  
*Int J Environ Anal Chem* 1994 **58** (1-4) 81
- Ion trap detection for development of a multi residue/multi matrix method for pesticide residues in agricultural products
- Unglaub W, Ney G// Staatliches Tierarztliches Untersuchungsamt Aulen-

dorf, Lowenbreitestr 18-20, D-88326 Aulendorf, Germany  
*Fleischwirtschaft* 1995 75 (2) 188  
 Application and public health significance of an enzyme-immunosorbant for neuroleptics (German)  
 Wild D// Bundesanstalt Fleischforsch, Inst Mikrobiol & Toxikol, EC Bau-mann Str 20, D-95326 Kulmbach, Germany  
*Z Ernahrungswiss* 1995 34 (1) 22  
 Improved microbiological assay of heterocyclic aromatic amines in cooked food (German, English Abstract)

## 9 TOXINS

Arentoft AMK, Greirson BN\*// Univ Western Australia, Ctr Legume Mediterraneaen Agr, Nedlands, WA 6009, Australia  
*J Agr Food Chem* 1995 43 (4) 942  
 Analysis of 3-(*N*-oxalyl)-L-2,3-diaminopropanoic acid and its  $\alpha$ -isomer in grass pea (*Lathyrus sativus*) by capillary zone electrophoresis  
 Artyukhova EA, Yuldashev PK// Uzbek Acad Sci, Inst Bot Chem, Tashkent, Uzbekistan  
*Khim Prir Soedin* 1994 (2) 271  
 Numerical determination of ricinine in various groats samples by the immunometric enzymic method using affinity columns (Russian)  
 Cai ML, Gong YX, Kao JLF, Krishnamoorthi R\*// \*Kansas State Univ Agr & Appl Sci, Dept Biochem, Manhattan, KS 66506, USA  
*Biochemistry-USA* 1995 34 (15) 5201  
 Three-dimensional solution structure of *Cucurbita maxima* trypsin inhibitor-V determined by NMR spectroscopy  
 Goncalves RB, Costa GP// UNICAMP, Fac Odontol Piracicaba, Dept Diagnóst Oral, Microbiol & Immunol Lab, BR-13414-018 Piracicaba, SP, Brazil  
*Braz J Med Biol Res* 1995 28 (2) 191  
 Isolation of the lectin and an L4 isolectin from *Phaseolus vulgaris* by affinity chromatography on insoluble ovomucoid  
 Joshua H// Aura Ind Inc, POB 898, Staten Isl, NY 10314, USA  
*Amer Lab* 1995 27 (6) J36  
 Analysis of aflatoxins in naturally contaminated corn by HPLC, post-column photochemical derivatization, and fluorescence detection  
 Matsubara C, Yokoi Y, Tsuji M, Takamura K// Tokyo Univ Pharm & Life Sci, Sch Life Sci, 1432-1 Horinouchi, Hachioji, Tokyo 19203, Japan  
*Anal Sci* 1995 11 (2) 245  
 Flow injection analysis of oxalate in foods using titanium(IV)-porphyrin reagent  
 Osada M, Marks LJ, Stewart JE\*// \*Fisheries & Oceans Canada, Bedford Inst Oceanog, Div Habitat Ecol, Biol Sci Branch, POB 1006, Dartmouth, Nova Scotia, Canada B2Y 4A2  
*Bull Environ Contam Toxicol* 1995 54 (6) 797  
 Determination of domoic acid by two different versions of a competitive enzyme-linked immunosorbent assay (ELISA)  
 Rusul G, Yaacob NH// Univ Pertanian Malaysia, Fac Food Sci & Biotechnol, Dept Food Sci, Serdang 43400, Malaysia  
*Int J Food Microbiol* 1995 25 (2) 131  
 Prevalence of *Bacillus cereus* in selected foods and detection of enterotoxin using TECRA-VIA and BCET-RPLA  
 Su YC, Wong ACL\*// \*Univ Wisconsin, Food Res Inst, Dept Food Microbiol & Toxicol, 1925 Willow Dr, Madison, WI 53706, USA  
*Appl Environ Microbiol* 1995 61 (4) 1438  
 Identification and purification of a new staphylococcal enterotoxin H  
 Tanaka T, Teshima R, Ikebuchi H, Sawada J, Ichinoe M// Natl Inst Hlth Sci, Div Biochem & Immunohistochem, Setagaya ku, Tokyo 158, Japan  
*J Agr Food Chem* 1995 43 (4) 946  
 Sensitive enzyme-linked immunosorbent assay for the mycotoxin zearalenone in barley and Job's tears  
 Tarrach F// Chem Untersuchungsamt Trier, D-54295 Trier, Germany  
*Deut Lebensm-Rundsch* 1995 91 (3) 73  
 Determining low quantities of histamine in wine and sparkling wine (German, English Abstract)  
 Wilkes JG, Sutherland JB, Churchwell MI, Williams AJ// US FDA, Natl Ctr Toxicol Res, Div Chem, Jefferson, AR 72079, USA  
*J Chromatogr A* 1995 695 (2) 319  
 Determination of fumonisins B<sub>1</sub>, B<sub>2</sub>, B<sub>3</sub> and B<sub>4</sub> by high-performance liquid chromatography with evaporative light-scattering detection  
 Zimmerli B, Dick R// Fed Off Publ Hlth, Div Food Sci, Food Chem Sect, CH-3000 Bern 14, Switzerland  
*J Chromatogr B-Biomed Appl* 1995 666 (1) 85  
 Determination of ochratoxin A at the ppt level in human blood, serum, milk and some foodstuffs by high-performance liquid chromatography with enhanced fluorescence detection and immunoaffinity column

cleanup: Methodology and Swiss data

## 10 ADDITIVES

Bianchi E, Bruschi R, Draisici R, Lucentini L// Univ Parma, Scuola Specializzata Chim & Tecnol Alimentari, Viale Sci, I-43100 Parma, Italy  
*Z Lebensmittel-Untersuch Fors* 1995 200 (4) 256  
 Comparison between ion chromatography and a spectrophotometric method for determination of nitrates in meat products  
 Hahn W, Jussofie I, Muller F\*// \*TH Goldschmidt AG, Goldschmidtstr 100, D-45127 Essen, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 200 (4) 244  
 Investigations into the properties of emulsifiers in yeast-leavened dough by means of infrared spectroscopy. II. Experiments on the interaction of emulsifiers with starch and flour and in dough  
 Nojima K, Isogami C, Kobashi M// Josai Univ, Fac Pharmaceut Sci, 1-1 Keyakidai, Sakado, Saitama 35002, Japan  
*Jpn J Toxicol Environ Health* 1994 40 (5) 467  
 Application of 4-phenyl-1,2,4-triazoline-3,5-dione for the analysis of sorbic acid in foods (Japanese, English Abstract)  
 Thompson CO, Trencerry VC\*, Kemmery B// Australian Govt Analyt Labs, 338-340 Tapleys Hill Rd, Seaton 5023, Australia  
*J Chromatogr A* 1995 694 (2) 507  
 Micellar electrokinetic capillary chromatographic determination of artificial sweeteners in low-joule soft drinks and other foods  
 Walsh GA, Murphy RA, Killeen GF, Headon DR, Power RF// Natl Univ Ireland, Univ Coll Galway, Alltechs European Biosci Res Ctr, Galway, Rep Ireland  
*J Anim Sci* 1995 73 (4) 1074  
 Technical note: Detection and quantification of supplemental fungal  $\beta$ -glucanase activity in animal feed

**11 FLAVOURS & AROMAS**

Benady M, Simon JE, Charles DJ, Miles GE// Purdue Univ, Ctr New Crops & Plant Prod, West Lafayette, IN 47907, USA  
*Trans ASAE* 1995 38 (1) 251  
 Fruit ripeness determination by electronic sensing of aromatic volatiles  
 Buiarelli F, Cartoni G\*, Cocciali F, Levettovitou Z// \*Univ Roma La Sapienza, Dipartimento di Chimica, P.A. Moro 5, I-00185 Rome, Italy  
*J Chromatogr A* 1995 695 (2) 229  
 Determination of phenolic acids in wine by high-performance liquid chromatography with a microbore column  
 Dautraix S, Gerola K, Guilluy R, Brazier JL, Chateau A, Guichard E, Etievant P// CIRDC, 15 Ave Galilee, F-92350 Le Plessis Robinson, France  
*J Agr Food Chem* 1995 43 (4) 981  
 Test of isotopic fractionation during liquid-liquid extraction of volatile components from fruits  
 De la Presa-Owens C, Noble AC\*// \*Univ Calif Davis, Dept Viticulture & Enol, Davis, CA 95616, USA  
*Amer J Enol Viticult* 1995 46 (1) 5  
 Descriptive analysis of three white wine varieties from Penedes  
 Ehlers D, Hilmer S, Bartholomae S// Tech Fachhsch Berlin, Fachbereich Lebensmitteltechnol & Verpackungstechnol, D-10785 Berlin, Germany  
*Z Lebensmittel-Untersuch Fors* 1995 200 (4) 282  
 HPLC analysis of supercritical CO<sub>2</sub> cinnamon and *Cassia* extracts in comparison with cinnamon and cassia oils (German, English Abstract)  
 Gil MI, Garcia-Viguera C, Bridle P, Tomas-Barberan FA// CSIC, CE-BAS, Dept Ciencia & Tecnol Alimentos, Fitoquim Lab, Apdo Correos 4195, E-30080 Murcia, Spain  
*Z Lebensmittel-Untersuch Fors* 1995 200 (4) 278  
 Analysis of phenolic compounds in Spanish red wines by capillary zone electrophoresis  
 Herold B, Pfeiffer P, Radler F\*// \*Univ Mainz, Inst Mikrobiol & Weinforsch, D-55099 Mainz, Germany  
*Amer J Enol Viticult* 1995 46 (1) 134  
 Determination of the three isomers of 2,3-butanediol formed by yeasts or lactic acid bacteria during fermentation  
 Hodges D, Simmonds D// Neotron Sci Ltd, Essex, England  
*Cereal Food World* 1995 40 (4) 186  
 Sensory technology for flavor analysis  
 Jinap S, Dimick PS\*, Hollender R// \*Penn State Univ, Dept Food Sci, University Pk, PA 16802, USA  
*Food Control* 1995 6 (2) 105  
 Flavour evaluation of chocolate formulated from cocoa beans from differ-

ent countries

Lai SM, Gray JI, Booren AM, Crackel RL, Gill JL// Michigan State Univ, Dept Food Sci & Human Nutr, East Lansing, Mi 48824, USA  
*J Sci Food Agr* 1995 67 (4) 447

Assessment of off-flavor development in restructured chicken nuggets using hexanal and TBARS measurements and sensory evaluation

Laszlavik M, Gal L, Misik S, Erdei L\*// \*Biol Res Ctr, Inst Biophys, H-6701 Szeged, Hungary  
*Amer J Enol Viticult* 1995 46 (1) 67

Phenolic compounds in two Hungarian red wines matured in *Quercus robur* and *Q. petrea* barrels: HPLC analysis and diode array detection

Martin-Lagos RA, Olea Serrano MF, Ruiz Lopez MD// Univ Granada, Fac Farm, Dept Nutr & Bromatol, E-18071 Granada, Spain  
*Food Chem* 1995 53 (1) 91

Determination of organic sulphur compounds in garlic extracts by gas chromatography and mass spectrometry

Su YC, Taylor SL// Univ Nebraska, Dept Food Sci & Technol, Lincoln, Ne 68583, USA  
*Food Addit Contam* 1995 12 (2) 153

Sulphite analysis of food ingredients: False positive responses with butter flavourings in the optimized Monier-Williams method

Thorngate JH, Noble AC\*// \*Univ Calif Davis, Dept Viticulture & Enol, Davis, Ca 95616, USA  
*J Sci Food Agr* 1995 67 (4) 531

Sensory evaluation of bitterness and astringency of 3R(-)-epicatechin and 3S(+)-catechin

Tomlinson JB, Ormrod IHL, Sharpe FR// Whitbread Tech Ctr, Pk St West, Luton LU1 3ET, Beds, England  
*J Inst Brew* 1995 101 (2) 113

A novel method for bitterness determination in beer using a delayed fluorescence technique

## 12 ORGANIC ACIDS

Barlianto H, Maier HG\*// \*Tech Univ Carolo Wilhelmina Braunschweig, Inst Lebensmittelchem, Schleinitzstr 20, D-38106 Braunschweig, Germany

*Z Lebensmittel-Untersuch Fors* 1995 200 (4) 273

Acids in chicory roots and malt. II. Determination of acids derived from carbohydrates

Ding MY, Koizumi H, Suzuki Y// Yamanashi Univ, Fac Engn, Dept Chem & Biotechnol, Kofu, Yamanashi 400, Japan  
*Anal Sci* 1995 11 (2) 239

Comparison of three chromatographic systems for determination of organic acids in wine

Dirksen G, Breitner W, Berger A// Vet Str 13, D-80539 Munich, Germany

*Tierarztl Umsch* 1995 50 (4) 239

Diagnosis of ketosis: Semiquantitative determination of  $\beta$ -hydroxybutyric acid in milk by means of a new test strip (German, English Abstract)

## 13 ANIMAL PRODUCTS

Addeo F, Nicolai MA, Chianese L, Moio L, Musso SS, Bocca A, Del Giovine L// Ist Sperimentale Lattiero Caseario, Via Lombardo 11, I-20075 Lodi, Italy

*Milchwissenschaft* 1995 50 (2) 83

A control method to detect bovine milk in ewe and water buffalo cheese using immunoblotting

Defilippi A, Piancone G, Tibaldi GP// USSL 40, Reg Piemonte Lab Sanita Pubbli, Via Saudino 3, I-10015 Ivrea, Italy

*Ind Aliment* 1994 34 (333) 6

Honey quality: HPLC determination of caffeine in orange honey (Italian, English Abstract)

Garrido MD, Pedauye J, Banon S, Lopez MB, Laencina J// Univ Murcia, Fac Vet, Dept Tecnol Alimentos, Campus Univ Espinardo, E-30071 Murcia, Spain

*Food Control* 1995 6 (2) 111

On-line methods for pork quality detection

Horgan GW, Murphy SV, Simm G// Univ Edinburgh, Scottish Agr Stat Serv, Kings Bldg, Edinburgh EH9 3JZ, Scotland

*Anim Sci* 1995 60 (2) 197

Automatic assessment of sheep carcasses by image analysis

Klettner PG// Inst Technol Bundesanstalt Fleischforsch, EC Baumann Str 20, D-95326 Kulmbach, Germany

*Fleischwirtschaft* 1995 75 (3) 263

Determining the colour in homogeneous frankfurter-type sausage with different colour measurement instruments (German, English Abstract)

Miklos A, Bicanic D\*// \*Agr Univ Wageningen, Dept Agr Engn & Phys, Laser Photoacoust Lab, Bomenweg 4, 6703 HD Wageningen, The Netherlands

*J Food Sci Technol-Mysore* 1995 32 (1) 53

Photoacoustic study of the moisture content in instant skim milk powder at ( $v_3+2v_2$ ) coupled vibrational-rotational transition of free water; Construction and evaluation of photoacoustic spectrometer

Osawa M// Sumitomo Elect Ind, Dept Biomed R&D, 1-3 Shimaya 1-chome, Konohana ku, Osaka 554, Japan

*Meat Sci* 1995 40 (1) 63

The measurement of meat pigments by fibre-optic reflectance spectrophotometry using the Kubelka-Munk equation

Pliquet F, Pliquet U, Schoberlein L, Freywald K// Univ Leipzig, Inst Med Phys & Biophys, Liebigstr 27, D-04103 Leipzig, Germany

*Fleischwirtschaft* 1995 75 (4) 496

Impedance measurements to characterize meat quality

Scholz A, Paulke T, Eger H// Humboldt Univ Berlin, Invalidenstr 42, D-10115 Berlin, Germany

*Fleischwirtschaft* 1995 75 (3) 320

Degree of marbling in the porcine m longissimus dorsi: Use of computer-supported video picture analysis for determination (German, English Abstract)

Strawbridge KB, Ray E, Hallett FR, Tosh SM, Dalgleish DG\*// \*Univ Guelph, Dept Food Sci, Guelph, Ontario, Canada N1G 2W1

*J Colloid Interface Sci* 1995 171 (2) 392

Measurement of particle size distributions in milk homogenized by a microfluidizer: Estimation of populations of particles with radii less than 100 nm

## 14 PLANT & MICROBIAL PRODUCTS

Barthakur NN, Arnold NP, Alli I// McGill Univ, Dept Nat Resource Sci, 21 111 Lakeshore Rd, St Anne de Bellevue, Quebec, Canada H9X 3V9

*Plant Food Hum Nutr* 1995 47 (1) 55

The Indian *Laburnum* (*Cassia fistula* L) fruit:- An analysis of its chemical constituents

Bartolome AP, Ruperez P, Fuster C\*// \*CSIC, Inst Frio, Dept Plant Food Sci & Technol, Ciudad Univ s/n, E-28040 Madrid, Spain

*Food Chem* 1995 53 (1) 75

Pineapple fruit: Morphological characteristics, chemical composition and sensory analysis of Red Spanish and Smooth Cayenne cultivars

Choi K, Lee G, Han YJ, Bunn JM// Clemson Univ, Dept Agr & Biol Engn, Clemson, SC 29631, USA

*Trans ASAE* 1995 38 (1) 171

Tomato maturity evaluation using color image analysis

Defernez M, Wilson RH// AFRC Inst Food Res, Norwich Lab, Norwich Res Pk, Norwich NR4 7UA, England

*J Sci Food Agr* 1995 67 (4) 461

Mid-infrared spectroscopy and chemometrics for determining the type of fruit used in jam

Hagmann K, Boettger A, Pieper HJ// Univ Hohenheim, Inst Lebensmitteltechnol, Garbenstr 25, D-70599 Stuttgart, Germany

*Deut Lebensm-Rundsch* 1995 91 (3) 76

A simple and quick method to measure the degree of fermentation in mashes of fruit. A contribution to control the production of fruit-spirits (German, English Abstract)

Hasegawa R, Ogiso T, Imaida K, Shirai T, Ito N// Nagoya City Univ, Sch Med, Dept Pathol 1, Mizuho ku, 1 Kawasumi, Nagoya, Aichi 467, Japan

*Food Chem Toxicol* 1995 33 (1) 15

Analysis of the potential carcinogenicity of coffee and its related compounds in a medium-term liver bioassay of rats

Ma YP, Deng FQ, Chen DZ, Sun SW\*// \*Natl Res Ctr Certified Reference Mat, Dist 11, Beijing 100013, Peoples Rep China

*J Chromatogr A* 1995 695 (2) 259

Determination of ethyl carbamate in alcoholic beverages by capillary multi-dimensional gas chromatography with thermionic specific detection

Mohns J, Kunnecke W\*// \*Gesell Biotechnol Forsch MbH, Mascheroder Weg 1, D-38124 Braunschweig, Germany

*Anal Chim Acta* 1995 305 (1-3) 241

Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine

Zion B, Chen P, McCarthy MJ// Agr Res Org, Volcani Ctr, Inst Agr Engn, POB 6, IL-50250 Bet Dagan, Israel

*J Sci Food Agr* 1995 67 (4) 423

Nondestructive quality evaluation of fresh prunes by NMR spectroscopy