



## Bibliography of analytical, nutritional and clinical methods

(2 weeks journals. Search completed at 30th. Oct. 2002)

### 1. Books, reviews & symposia

- Careri M, Bianchi F, Corradini C// Univ Parma, Dipt Chim Gen & Inorgan Chim Analit Chim, Parco Area Sci 17A, IT-43100 Parma, Italy  
*J Chromatogr A* 2002 **970** (1-2) 3  
Recent advances in the application of mass spectrometry in food-related analysis (Review)  
Fernandez M, Pico Y, Manes J// Univ Valencia, Fac Farm, Lab Bromatol & Toxicol, Avda Vicent Andres Estelles s/n, ES-46100 Valencia, Spain  
*J Food Prot* 2002 **65** (9) 1502  
Analytical methods for pesticide residue determination in bee products (Review)

### 3. Amino acids, proteins & enzymes

- Gottlieb DM, Schultz J, Petersen M, Nesic L, Jacobsen S, Sondergaard I\*// \*Tech Univ Denmark, BioCentrum-DTU, Biochem & Nutr, Soltofts Plads, Building 224, DK-2800 Kgs, Lyngby, Denmark  
*Rapid Commun Mass Spectrom* 2002 **16** (21) 2034  
Determination of wheat quality by mass spectrometry and multivariate data analysis

### 4. Carbohydrates

- Mecozzi M, Acquistucci R, Amici M, Cardarilli D// Ist Cent Ric Sci & Tecnol Applicate Mare, via di Casalotti 300, IT-00166 Rome, Italy  
*Ultrasound Sonochem* 2002 **9** (4) 219  
Improvement of an ultrasound assisted method for the analysis of total carbohydrate in environmental and food samples

### 5. Lipids

- Blaha V, Solichova D, Blaha M, Hyspler R, Havel E, Vyroubal P, Zdansky P, Zadak Z// Charles Univ, Fac Hosp, Dept Metab Care, Sokolska 581, CZ-50005 Hradec Králové, Czech Republic  
*Anal Chim Acta* 2002 **467** (1-2) 125  
Interrelationship between fatty acid composition, lipid peroxidation and  $\alpha$ -tocopherol consumption post-LDL-apheresis treatment evaluated by liquid chromatography and gas chromatography  
Downey G, McIntyre P, Davies AN// Teagasc, Natl Food Ctr, Dublin 15, Rep Ireland  
*J Agric Food Chem* 2002 **50** (20) 5520  
Detecting and quantifying sunflower oil adulteration in extra virgin olive oils from the Eastern Mediterranean by visible and near-infrared spectroscopy  
Ghosh N, Datta A, Gupta PK\*// \*Ctr Adv Technol, Biomed Applicat Sect, IN-452013 Indore, India  
*Appl Spectrosc* 2002 **56** (8) 1094  
Diffuse reflectance studies of edible fats  
Koc H, Mar MH, Ranasinghe A, Swenberg JA, Zeisel SH\*// \*Univ Nth Carolina, Dept Nutr, Chapel Hill, NC 27599, USA  
*Anal Chem* 2002 **74** (18) 4734  
Quantitation of choline and its metabolites in tissues and foods by liquid chromatography/electrospray ionization-isotope dilution mass spectrometry

### 6. Vitamins & co-factors

- Abdullin IF, Turova EN, Ziyatdinova GK, Budnikov GK// Kazan VI Lenin State Univ, Dept Chem, ul Kremlevskaya 18, RU-420008 Kazan, Tatarstan, Russia  
*J Anal Chem-Engl Tr* 2002 **57** (8) 730  
Determination of fat-soluble antioxidants by galvanostatic coulometry using electrogenerated oxidants  
Cho S, Johnson G, Song WO\*// \*Michigan State Univ, Dept Food Sci & Human Nutr, East Lansing, Mi 48824, USA  
*J Food Compos Anal* 2002 **15** (3) 293  
Folate content of foods: Comparison between databases compiled before and after new FDA fortification requirements  
Fish WW, Perkins-Veazie P, Collins JK// USDA/ARS, Sth Cent Agr Res Lab, POB 159, Lane, Ok 74555, USA  
*J Food Compos Anal* 2002 **15** (3) 309  
A quantitative assay for lycopene that utilizes reduced volumes of organic solvents  
Gan NQ, Cai RX\*, Lin ZX// \*Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China  
*Anal Chim Acta* 2002 **466** (2) 257  
Determination of ascorbic acid based on a peroxidase oscillator reaction  
Tzouganaki ZD, Atta-Politou J, Koupparis MA\*// \*Univ Athens, Dept Chem, Analyt Chem Lab, Panepistimiopolis, GR-15771 Athens, Greece  
*Anal Chim Acta* 2002 **467** (1-2) 115  
Development and validation of liquid chromatographic method for the determination of lycopene in plasma

### 7. Trace elements & minerals

- Asher SA, Petru SF, Reese CE, Lin MX, Finegold D// Univ Pittsburgh, Dept Chem, Pittsburgh, Pa 15260, USA  
*Anal Bioanal Chem* 2002 **373** (7) 632  
Polymerized crystalline colloidal array chemical-sensing materials for detection of lead in body fluids  
Bonnefoy C, Menudier A, Moesch C, Lachatre G, Mermet JM// Hop Univ Dupuytren, Dept Pharmacol Toxicol, 2 Ave Martin Luther King, FR-87042 Limoges, France  
*J Anal Atom Spectrom* 2002 **17** (9) 1161  
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*Spectrochim Acta Pt B Atom Spect* 2002 **57** (6) 1101  
Determination of thallium in wine by electrothermal atomic absorption spectrometry after extraction preconcentration  
Fecher P, Ruhnke G// Landesamt Gesundheit & Lebensmittelsicherheit, Henkestr 9-11, DE-91054 Erlangen, Germany  
*Anal Bioanal Chem* 2002 **373** (8) 787  
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Griffin JJ// Baylor Coll Med, Dept Pediat, Houston, Tx 77030, USA  
*J Anal Atom Spectrom* 2002 **17** (9) 1186  
Using stable isotopes and isotope ratio mass spectrometry to study mineral metabolism in humans  
Keyes WR, Turnlund JR// Univ Calif Davis, USDA/ARS, Western Human

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.

- Nutr Res Ctr, 1 Shields Ave, Davis, Ca 95616, USA  
*J Anal Atom Spectrom* 2002 **17** (9) 1153  
 Determination of molybdenum and enriched Mo stable isotope concentrations in human blood plasma by isotope dilution ICP-MS  
 Renard NE, Tompkins TA// Inst Rosell, Montreal, Quebec, Canada  
*Biol Tr Elem Res* 2002 **88** (2) 185  
 Evaluation of methods for total selenium determination in yeast  
 Vonderheide AP, Wrobel K, Kannamkumarath SS, B'Hymer C, Montes-Bayon M, De Leon CP, Caruso JA\*/ \*Univ Cincinnati, Dept Chem, Cincinnati, Oh 45221, USA  
*J Agric Food Chem* 2002 **50** (20) 5722  
 Characterization of selenium species in brazil nuts by HPLC-ICP-MS and ES-MS

## 8. Drug, biocide & processing residues

- Blasco C, Font G, Pico Y// \*Univ Valencia, Fac Farm, Lab Bromatol & Toxicol, Avda Vicent Andres Estelles s/n, ES-46100 Valencia, Spain  
*J Chromatogr A* 2002 **970** (1-2) 201  
 Comparison of microextraction procedures to determine pesticides in oranges by liquid chromatography-mass spectrometry  
 Gabaldon JA, Cascales JM, Maquieira A, Puchades R// \*Ctr Tecnol Nacl Conserva, C/ Concordia s/n, ES-30500 Murcia, Spain  
*J Chromatogr A* 2002 **963** (1-2) 125  
 Rapid trace analysis of alachlor in water and vegetable samples  
 Hasenkopf K, Ronner B, Hiller H, Pischetsrieder M\*/ \*Univ Erlangen Nürnberg, Inst Pharm & Food Chem, Schuhstr 19, DE-91052 Erlangen, Germany  
*J Agric Food Chem* 2002 **50** (20) 5697  
 Analysis of glycated and ascorbylated proteins by gas chromatography-mass spectrometry  
 Hiemstra M, De Kok A// Pesticide Anal Grp, Dept Res & Dev, Food Inspect Serv, Inspectorate Hlth Protect, Hoogte Kadijk 401, NL-1018 BK Amsterdam, The Netherlands  
*J Chromatogr A* 2002 **972** (2) 231  
 Determination of propamocarb in vegetables using polymer-based high-performance liquid chromatography coupled with electrospray mass spectrometry  
 Impens S, De Wasch K, Cornelis M, De Brabander HF// State Univ Ghent, Fac Vet Med, Dept Vet Food Inspect, Lab Chem Anal, Salisburylaan 133, BE-9820 Merelbeke, Belgium  
*J Chromatogr A* 2002 **970** (1-2) 235  
 Analysis on residues of estrogens, gestagens and androgens in kidney fat and meat with gas chromatography-tandem mass spectrometry  
 Kim B, Kim DH, Hwang EJ, So HY// KRISS, Div Chem Metrol & Mat Evaluat, Yusong 305600, Daejeon, South Korea  
*Bull Korean Chem Soc* 2002 **23** (7) 935  
 Comparison of sample extraction methods for the determination of bis(p-chlorophenyl) dichloroethylene (*p,p'*-DDE) in rice flour using isotope dilution mass spectrometry  
 Morzycka B// Plant Protect Inst Poznan, Expt Field Stn, ul Chelmonskiego 22, PL-15195 Bialystok, Poland  
*Chem Anal* 2002 **47** (4) 571  
 Multiresidue matrix solid-phase dispersion method for the determination of fungicides in fruits and vegetables  
 Pedersen DK, Munck L, Engelsen SB\*/ \*Royal Vet & Agr Univ, Dept Dairy & Food Sci, Rolighedsvej 30, DK-1958 Frederiksberg C, Denmark  
*J Chemometr* 2002 **16** (8-10) 451  
 Screening for dioxin contamination in fish oil by PARAFAC and N-PLSR analysis of fluorescence landscapes

## 9. Toxins

- Gonzalez JC, Leira F, Fontal OI, Vieytes MR, Arevalo FF, Vieites JM, Bermudez-Puente M, Muniz S, Salgado C, Yasumoto T, Botana LM\*/ \*Fac Vet, Dept Farmacol, ES-27002 Lugo, Spain  
*Anal Chim Acta* 2002 **466** (2) 233  
 Inter-laboratory validation of the fluorescent protein phosphatase inhibition assay to determine diarrhetic shellfish-toxins: Intercomparison with liquid chromatography and mouse bioassay  
 Grote M, Stumvoll S, Reichelt R, Lidholm J, Valenta R// Univ Munster, Inst Med Phys & Biophys, DE-48149 Munster, Germany  
*Biol Chem* 2002 **383** (9) 1441  
 Identification of an allergen related to Phl p 4, a major timothy grass pollen allergen, in pollens, vegetables, and fruits by immunogold electron microscopy  
 Micheli L, Di Stefano S, Moscone D, Palleschi G\*, Marini S, Coletta M, Draisci R, Quadri FD// \*Univ Roma Tor Vergata, Dipt Sci & Tecmol Chim, via Ricerca Sci, IT-00133 Rome, Italy

- Anal Bioanal Chem* 2002 **373** (8) 678  
 Production of antibodies and development of highly sensitive formats of enzyme immunoassay for saxitoxin analysis

## 11. Flavours & aromas

- Byrne L, Lau KT, Diamond D\*/ \*Dublin City Univ, Natl Ctr Sensor Res, Dublin 9, Rep Ireland  
*Analyst* 2002 **127** (10) 1338  
 Monitoring of headspace total volatile basic nitrogen from selected fish species using reflectance spectroscopic measurements of pH sensitive films

## 12. Organic acids

- Castineira A, Pena RM, Herrero C, Garcia-Martin S\*/ \*Univ Santiago de Compostela, Fac Ciencias, Dept Quim Analit Nutr & Bromatol, ES-27002 Lugo, Spain  
*J Food Compos Anal* 2002 **15** (3) 319  
 Analysis of organic acids in wine by capillary electrophoresis with direct UV detection

## 13. Animal products

- Cozzolino D, Martins V, Murray I// Inia Estanzuela Beef Unit, Colonia, Uruguay  
*J Near Infrared Spectrosc* 2002 **10** (3) 187  
 Visible and near infrared spectroscopy of beef longissimus dorsi muscle as a means of discriminating between pasture and corn silage feeding regimes

## 14. Plant & microbial products

- Bramati L, Minoggio M, Gardana C, Simonetti P, Mauri P, Pietta P// Ist Tecnol Biomed, CNR, via Fratelli Cervi 93, IT-20090 Milan, Italy  
*J Agric Food Chem* 2002 **50** (20) 5513  
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 Cantos JC, Espin JC, Tomas-Barberan FA\*/ \*CEBAS-CSIC, Dept Food Sci & Technol, Res Grp Qual Safety & Bioact Plant Foods, POB 4195, ES-30080 Murcia, Spain  
*J Agric Food Chem* 2002 **50** (20) 5691  
 Varietal differences among the polyphenol profiles of seven table grape cultivars studied by LC-DAD-MS-MS  
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*J Chromatogr A* 2002 **972** (2) 195  
 On-line liquid-chromatography-nuclear magnetic resonance spectroscopy-mass spectrometry coupling for the separation and characterization of secoisolariciresinol diglucoside isomers in flaxseed  
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*Spectrosc Eur* 2002 **14** (5) 22  
 Port wine spectral monitoring  
 Piot O, Autran JC, Manfait M\*/ \*Univ Reims, Fac Med, IFR 53, UMR CNRS, 6142 - MeDIAN, 51 rue Cognacq Jay, FR-51096 Reims, France  
*Appl Spectrosc* 2002 **56** (9) 1132  
 Assessment of cereal quality by micro-Raman analysis of the grain molecular composition  
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*Chemometr Intell Lab Syst* 2002 **63** (2) 93  
 Preliminary results of an interlaboratory study of chemometric software and methods on NIR data. Predicting the content of crude protein and water in forages  
 Saitta M, Lo Curto S, Salvo F, Di Bella G, Dugo G// Univ Messina, Dipt Chim Organ & Biol, Salita Sperone 31, IT-98166 Messina, Italy  
*Anal Chim Acta* 2002 **466** (2) 335  
 Gas chromatographic-tandem mass spectrometric identification of phenolic compounds in Sicilian olive oils  
 Yanagida A, Shoji T, Kanda T// Tokyo Univ Pharm & Life Sci, Sch Pharm, Dept Analyt Chem, 1432-1 Horinouchi, Hachioji, Tokyo 192 0392, Japan  
*Biosci Biotechnol Biochem* 2002 **66** (9) 1972  
 Characterization of polymerized polyphenols by size-exclusion HPLC