

## Bibliography of analytical, nutritional and clinical methods

(3 weeks journals. Search completed at 29th Mar. 2006)

### 1. Books, reviews & symposia

De la Calle MB, Anklam E// European Commiss, Directorate Gen Joint Res Ctr, IRMM, Retieseweg 111, BE-2440 Geel, Belgium

*Anal Bioanal Chem* 2005 **382** (4) 968

Semicarbazide: Occurrence in food products and state-of-the-art in analytical methods used for its determination

Infante HG, Hearn R, Catterick T// LGC Ltd, Queens Rd, Teddington TW11 0LY, England

*Anal Bioanal Chem* 2005 **382** (4) 957

Current mass spectrometry strategies for selenium speciation in dietary sources of high-selenium

Jedlicka A, Klimes J// Charles Univ, Fac Pharm, Dept Pharmaceut Chem & Drug Control, CZ-50002 Hradec Kralove, Czech Republic

*Chem Pap Chem Zvesti* 2005 **59** (3) 202

Determination of water- and fat-soluble vitamins in different matrices using high-performance liquid chromatography

Nunez O, Moyano E, Galceran MT// \*Univ Barcelona, Dept Analyt Chem, Diagonal 647, Marti i Franques 1-11, ES-08028 Barcelona, Spain

*Trends Anal Chem* 2005 **24** (7) 683

LC-MS/MS analysis of organic toxics in food

Xu BJ, Jia XQ, Gu LJ, Sung CK// \*Chungnam Natl Univ, Coll Agr & Biotechnol, Dept Food Sci & Technol, 220 Gung dong, Taejon 305 764, South Korea

*Food Control* 2006 **17** (4) 271

Review on the qualitative and quantitative analysis of the mycotoxin citrinin

### 3. Amino acids, proteins & enzymes

De Noni I// Univ Milan, Dipt Sci & Tecnol Alimentari & Microbiol, Via G Celoria 2, IT-20133 Milan, Italy

*Int Dairy J* 2006 **16** (1) 9

Study on the variability of fucosidase activity in bovine milk by means of HPLC

Ellepola SW, Choi SM, Ma CY// \*Univ Hong Kong, Dept Bot, Hong Kong, Peoples Rep China

*Int J Biol Macromol* 2005 **37** (1-2) 12

Conformational study of globulin from rice (*Oryza sativa*) seeds by Fourier-transform infrared spectroscopy

Guilmineau F, Krause I, Kulozik U// \*Tech Univ Munich, Cent Inst Nutr & Food Res, Sect Technol & Prot Anal, Weihenstephaner Berg 1, DE-85354 Freising, Germany

*J Agric Food Chem* 2005 **53** (24) 9329

Efficient analysis of egg yolk proteins and their thermal sensitivity using sodium dodecyl sulfate polyacrylamide gel electrophoresis under reducing and nonreducing conditions

Lee J, Harnly JM// \*USDA/ARS, Beltsville Human Nutr Res Ctr, Food Compos Lab, Beltsville, Md 20705, USA

*J Agric Food Chem* 2005 **53** (23) 9100

Free amino acid and cysteine sulfoxide composition of 11 garlic (*Allium sativum* L.) cultivars by gas chromatography with flame ionization and mass selective detection

Lee J, Finley JW, Harnly JM// \*Address as above

*J Agric Food Chem* 2005 **53** (23) 9105

Effect of selenium fertilizer on free amino acid composition of broccoli (*Brassica oleracea* cv. Majestic) determined by gas chromatography with flame ionization and mass selective detection

Olds DA, Fung DYC, Shanklin CW// Kansas State Univ, Inst Management & Dietet, Dept Hotel Restaurant, 103 Justin Hall, Manhattan, Ks 66506, USA

*J Rapid Methods Autom Microbiol* 2005 **13** (3) 135

Semiquantitative evaluation of protein residues in foods using the flash rapid cleaning validation method

Qin W, Dan W, Bin D\*, Li ZJ, Huo YQ// \*Jinan Univ, Sch Chem & Chem Engrn, CN-250022 Jinan, Peoples Rep China

*J Food Compos Anal* 2006 **19** (1) 76

A spectrophotometric method for determination of total proteins in cow milk powder samples using the *o*-nitrophenylfluorone/Mo(VI) complex

Yu P, Wang R, Bai Y// Univ Saskatchewan, Coll Agr, 51 Campus Dr, Saskatoon, Saskatchewan, Canada S7N 5A8

*J Agric Food Chem* 2005 **53** (24) 9297

Reveal protein molecular structural-chemical differences between two types of winterfat (forage) seeds with physiological differences in low temperature tolerance using synchrotron-based Fourier transform infrared microspectroscopy

### 4. Carbohydrates

Alcazar A, Jurado MJM, Martin J, Pablos F\*, Gonzalez AG// \*Univ Seville, Fac Chem, Dept Analyt Chem, ES-41012 Seville, Spain

*Talanta* 2005 **67** (4) 760

Enzymatic-spectrophotometric determination of sucrose in coffee beans

Aranda MB, Vega MH, Villegas RF// Concepcion Univ, Fac Pharm, Dept Food Sci Nutr & Dietet, Concepcion, Chile

*J Planar Chromatogr Mod TLC* 2005 **18** (104) 285

Routine method for quantification of starch by planar chromatography (HPTLC)

Azevedo DCS, Rodrigues AE// \*Univ Porto, Fac Engrn, LSRE, Rua Dr Roberto Frias s/n, PT-4200-465 Oporto, Portugal

*Separ Sci Technol* 2005 **40** (9) 1761

Separation of fructose and glucose from cashew apple juice by SMB chromatography

Hollung K, Overland M, Hrustic M, Sekulic P, Miladinovic J, Martens H, Narum B, Sahlstrom S, Sorensen M, Storebakken T, Skede A// Norwegian Food Res Inst, Matforsk, Osloveien 1, NO-1430 As, Norway

*J Agric Food Chem* 2005 **53** (23) 9112

Evaluation of nonstarch polysaccharides and oligosaccharide content of different soybean varieties (*Glycine max.*) by near-infrared spectroscopy and proteomics

### 5. Lipids

Bellorini S, Strathmann S, Baeten V, Fumiere O, Berben G, Tirendi S, Von Holst C// \*European Commiss, Directorate Gen Joint Res Ctr, Inst Reference Mat & Measurements, Retieseweg 111, BE-2440 Geel, Belgium

*Anal Bioanal Chem* 2005 **382** (4) 1073

Discriminating animal fats and their origins: Assessing the potentials of Fourier transform infrared spectroscopy, gas chromatography, immunoassay and polymerase chain reaction techniques

Biedermann M, Fiselier K, Grob K// \*Canton Zurich, Official Food Control

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical, nutritional and clinical methods. The bibliography is divided into fourteen sections: 1 Books, reviews & symposia; 2 General; 3 Amino acids, proteins & enzymes; 4 Carbohydrates; 5 Lipids; 6 Vitamins & co-factors; 7 Trace elements & minerals; 8 Drug, biocide & processing residues; 9 Toxins/Allergens; 10 Additives; 11 Flavours & aromas; 12 Organic acids; 13 Animal products; 14 Plant & microbial products. Within each section, articles are listed in alphabetical order with respect to the author. Where there are no papers to appear under a heading, it will be omitted.

- Authority, CH-8030 Zurich, Switzerland  
*J Sep Sci* 2005 **28** (13) 1550  
 Injector-internal thermal desorption from edible oils. Part 1: Visual experiments on sample deposition on the liner wall
- Catharino RR, Haddad R, Cabrini LG, Cunha IBS, Sawaya ACHF\*, Eberlin MN// \*State Univ Campinas, Inst Chem, Thomson Mass Spectrometry Lab, BR-13083-970 Campinas, SP, Brazil  
*Anal Chem* 2005 **77** (22) 7429  
 Characterization of vegetable oils by electrospray ionization mass spectrometry fingerprinting: Classification, quality, adulteration, and aging
- Cheikhousman R, Zude M, Bouveresse DJR, Leger CL, Rutledge DN, Birlouez-Aragon I// INAPG, INRA UMR IAQA, Lab Chim Analyt, 16 rue Claude Bernard, FR-75005 Paris, France  
*Anal Bioanal Chem* 2005 **382** (6) 1438  
 Fluorescence spectroscopy for monitoring deterioration of extra virgin olive oil during heating
- Daun JK, Thomas R// Canadian Grain Commis, Grain Res Lab, 1404-303 Main St, Winnipeg, Manitoba, Canada R3C 3G9  
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 Fat content of oilseeds used as foods is dependent on the method of determination (Letter)
- Dupuy N, Le Dreau Y, Ollivier D, Artaud J, Pinatel C, Kister J// Univ Paul Cezanne, UMR CNRS 6171, Lab GOAE, Case 561, FR-13397 Marseille, France  
*J Agric Food Chem* 2005 **53** (24) 9361  
 Origin of French virgin olive oil registered designation of origins predicted by chemometric analysis of synchronous excitation-emission fluorescence spectra
- Fang F, Ho CT\*, Sang SM, Rosen RT// \*Rutgers State Univ, Dept Food Sci, 65 Dudley Rd, New Brunswick, NJ 08901, USA  
*J Food Lipids* 2005 **12** (4) 327  
 Determination of sphingolipids in nuts and seeds by a single quadrupole liquid chromatography-mass spectrometry method
- Guimet F, Ferre J, Boque R, Vidal M, Garcia J// Univ Rovira & Virgili, Dept Analyt Chem & Organ Chem, C/ Marcelli Domingo s/n, ES-43007 Tarragona, Spain  
*J Agric Food Chem* 2005 **53** (24) 9319  
 Excitation-emission fluorescence spectroscopy combined with three-way methods of analysis as a complementary technique for olive oil characterization
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*J Sep Sci* 2005 **28** (12) 1315  
 Quantitation of triacylglycerols in plant oils using HPLC with APCI-MS, evaporative light-scattering, and UV detection
- Liu KZ, Shi MH, Man A, Dembinski TC, Shaw RA// Natl Res Council Canada, Inst Biodiagnost, 435 Ellice Ave, Winnipeg, Manitoba, Canada R3B 1Y6  
*Vib Spectrosc* 2005 **38** (1-2) 203  
 Quantitative determination of serum LDL cholesterol by near-infrared spectroscopy
- Thurnhofer S, Vetter W// \*Univ Hohenheim, Inst Food Chem, Garbenstr 28, DE-70599 Stuttgart, Germany  
*J Agric Food Chem* 2005 **53** (23) 8896  
 A gas chromatography/electron ionization-mass spectrometry-selected ion monitoring method for determining the fatty acid pattern in food after formation of fatty acid methyl esters
- Zhang X, Julien-David D, Miesch M, Geoffroy P, Raul F, Roussi S, Aoude-Werner D, Marchioni E// \*Univ Louis Pasteur, Fac Pharm, UMR 7512, Lab Chim Analyt & Sci Aliment, 74 Route Rhin, FR-67400 Illkirch, France  
*Steroids* 2005 **70** (13) 896  
 Identification and quantitative analysis of  $\beta$ -sitosterol oxides in vegetable oils by capillary gas chromatography-mass spectrometry
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- Hao ZG, Parker B, Knapp M, Yu LL// Colgate Palmolive Co, Global Analyt Sci Dept, 909 River Rd, Piscataway, NJ 08855, USA  
*J Chromatogr A* 2005 **1094** (1-2) 83  
 Simultaneous quantification of  $\alpha$ -tocopherol and four major carotenoids in botanical materials by normal phase liquid chromatography-atmospheric pressure chemical ionization-tandem mass spectrometry
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 Development and validation of an HPLC method for the quantification of vitamin A in human milk. Its application to a rural population in Argentina
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 High-performance liquid chromatography method for the simultaneous determination of thiamine hydrochloride, pyridoxine hydrochloride and cyanocobalamin in pharmaceutical formulations using coulometric electrochemical and ultraviolet detection
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*Talanta* 2005 **67** (4) 798  
 Solid-contact potentiometric sensor for ascorbic acid based on cobalt phthalocyanine nanoparticles as ionophore
- Wang L, Bian GR, Dong L, Xia YT, Hong S// Anhui Normal Univ, Coll Chem & Mat Sci, CN-241000 Wuhu, Peoples Rep China  
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 Preparation of a novel fluorescence probe of terbium composite nanoparticles and its application in the determination of ascorbic acid
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 Direct fluorimetric determination of ascorbic acid by the supramolecular system of AA with  $\beta$ -cyclodextrin derivative
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 Direct oxidation of ascorbic acid at an edge plane pyrolytic graphite electrode: A comparison of the electroanalytical response with other carbon electrodes
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*J Chem Soc Pakistan* 2005 **27** (1) 90  
 Dry ashing or wet digestion? A comparative study for estimation of zinc and calcium in freshwater fish samples by atomic absorption spectrometry
- Carvalho ML, Pimentel AC, Fernandes B// Univ Lisbon, Dept Fis, Ctr Fis Atom, Av Prof Gama Pinto 2, PT-1649-003 Lisbon, Portugal  
*Anal Sci* 2005 **21** (7) 747  
 Study of heavy metals in wild edible mushrooms under different pollution conditions by X-ray fluorescence spectrometry
- Christopher SJ, Day RD, Bryan CE, Turk GC// Natl Inst Stand & Technol, Div Analyt Chem, Chem Sci & Technol Lab, 331 Ft Johnson Rd, Charleston, SC 29412, USA  
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 Improved calibration strategy for measurement of trace elements in biological and clinical whole blood reference materials via collision-cell inductively coupled plasma mass spectrometry
- Da Silva IS, Richter EM, Do Lago CL, Gutz IGR, Tanaka AA, Angnes U// \*Univ Sao Paulo, IQ, Dept Quim Fundamental, Av Prof Lineu Prestes 748, BR-05508-900 Sao Paulo, Brazil  
*Talanta* 2005 **67** (3) 651  
 FIA-potentiometry in the sub-Nernstian response region for rapid and direct chloride assays in milk and in coconut water
- De Sousa RA, Baccan N, Cadore S// \*Univ Estadual Campinas, Inst Quim, CP 6154, BR-13084-971 Campinas, SP, Brazil  
*J Brazil Chem Soc* 2005 **16** (3B) 540  
 Determination of metals in Brazilian coconut water using an inductively coupled plasma optical emission spectrometer
- Dos Santos WNL, Da Silva EGP, Fernandes MS, Araujo RGO, Costa ACS, Vale MGR, Ferreira SLC// \*Univ Fed Bahia, Inst Quim Nucl Excellencia Quim Analit Bahia, Campus Univ Ondina, BR-40170-290 Salvador, BA, Brazil  
*Anal Bioanal Chem* 2005 **382** (4) 1099  
 Determination of copper in powdered chocolate samples by slurry-sampling flame atomic-absorption spectrometry
- Dragun Z, Raspor B// Rudjer Boskovic Inst, Div Marine & Environm Res, POB 180, HR-10002 Zagreb, Croatia  
*J Anal Atom Spectrom* 2005 **20** (10) 1121  
 Direct determination of Cd in NaCl containing metallothionein fractions of different red mullet tissues by GF-AAS
- Erdemoglu SB, Gucer S// Inono Univ, Fac Sci & Arts, Dept Chem, Malatya, Turkey  
*Anal Sci* 2005 **21** (8) 1005  
 Selective determination of aluminum bound with tannin in tea infusion
- Fragniere C, Haldimann M\*, Eastgate A, Krahenbuhl U// \*Swiss Fed Off Publ Hlth, Div Food Sci, Sect Food Chem, CH-3003 Bern, Switzerland  
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 A direct ultratrace determination of platinum in environmental, food and biological samples by ICP-SFMS using a desolvation system

- Ha J, Sun HW, Kang WJ, Liang SX// Hebei Univ Sci & Technol, Coll Chem & Pharmaceut Engn, CN-050018 Shijiazhuang, Peoples Rep China  
*Microchim Acta* 2005 **150** (3-4) 277  
Continuous flow chemical vapor generation for the determination of cadmium in foodstuffs by atomic absorption spectrometry using derivative signal processing
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Direct determination of total sulfur in wine using a continuum-source atomic-absorption spectrometer and an air-acetylene flame
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The versatility of salicylaldehyde thiosemicarbazone in the determination of copper in blood using adsorptive stripping voltammetry
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On-line preconcentration of cadmium in commercial tea samples using polyurethane foam as filter associated with ultrasonic nebulization-inductively coupled plasma optical emission spectrometric detection
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High-accuracy IDMS analysis of trace elements in wheat flour for the provision of reference values to a proficiency testing scheme
- Navarrete JM, Campos J, Martinez T, Cabrera L// Natl Autonomous Univ Mexico, Fac Quim, CU, Bldg D, MX-04510 Mexico City, ZC, Mexico  
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Determination of potassium traces in foodstuffs by natural <sup>40</sup>K radiation
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Slurry sampling techniques for the determination of lead in Bangladeshi fish samples by electrothermal atomic absorption spectrometry with a metal tube atomizer
- Schaeffer R, Soeroes C, Ipolyi I, Fodor P, Thomaidis NS// \*Univ Athens, Dept Chem, Analyt Chem Lab, Panepistiomopolis Zografou, GR-15776 Athens, Greece  
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Determination of arsenic species in seafood samples from the Aegean Sea by liquid chromatography-(photo-oxidation)-hydride generation-atomic fluorescence spectrometry
- Shar GQ, Kazi G, Sahito S, Arain SA, Shar LA// Shah Abdul Latif Univ, Dept Chem, Khairpur, Sindh, Pakistan  
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- Štibilj V, Smrkolj P, Krbavcic A// Jozef Stefan Inst, Jamova 39, SI-1000 Ljubljana, Slovenia  
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Investigation of the declared value of selenium in food supplements by HG-AFS
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Determination of selenium in human milk by electrothermal atomic absorption spectrometry and chemical modification
- Yebra MC, Cancela S// Univ Santiago de Compostela, Fac Chem, Dept Analyt Chem Nutr & Bromatol, ES-15782 Santiago de Compostela, Spain  
*Anal Bioanal Chem* 2005 **382** (4) 1093  
Continuous ultrasound-assisted extraction of cadmium from legumes and dried fruit samples coupled with on-line preconcentration-flame atomic absorption spectrometry
- Yoon S, Albers AE, Wong AP, Chang CJ// \*Univ Calif Berkeley, Dept Chem, Berkeley, Ca 94720, USA  
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- Zakharova EA, Deryabina VI, Slepchenko GB// Tomsk Polytech Univ, Dept Chem Engn, pr Lenina 30, RU-634050 Tomsk, Russia  
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Optimization of the voltammetric determination of arsenic in foodstuffs
- Zeiner M, Steffan I, Cindric IJ// Univ Vienna, Inst Analyt Chem, Währingerstr 38, AT-1090 Vienna, Austria  
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Determination of trace elements in olive oil by ICP-AES and ETA-AAS: A pilot study on the geographical characterization

## 8. Drug, biocide & processing residues

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Evaluation of supercritical fluid extraction/aminopropyl solid-phase "in-line" cleanup for analysis of pesticide residues in rice
- Barcelo-Barrachina E, Santos FJ, Puignou L\*, Galceran MT// \*Univ Barcelona, Dept Quim Anal, Avda Diagonal 647, Glassboro, NJ 08028, USA  
*Anal Chim Acta* 2005 **545** (2) 209  
Comparison of dimethylformamide dialkylacetate derivatization reagents for the analysis of heterocyclic amines in meat extracts by gas chromatography-mass spectrometry
- Braunrath R, Podlipna D, Padlesak S, Cichna-Markl M// \*Univ Vienna, Dept Analyt & Food Chem, Währinger Str 38, AT-1090 Vienna, Austria  
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Determination of bisphenol A in canned foods by immunoaffinity chromatography, HPLC, and fluorescence detection
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- Cao YS, Chen JX, Wang YL, Liang J, Chen LH, Lu YT// \*Shanghai Jiao Tong Univ, Dept Resource & Environm Sci, 2678 Qixin Rd, CN-201101 Shanghai, Peoples Rep China  
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HPLC/UV analysis of chlorfenapyr residues in cabbage and soil to study the dynamics of different formulations
- Chu PS, Lopez MI// US/FDA, Ctr Vet Med, 8401 Muirkirk Rd, Laurel, Md 20708, USA  
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Liquid chromatography-tandem mass spectrometry for the determination of protein-bound residues in shrimp dosed with nitrofurans
- Clough R, Belt ST, Fairman B, Catterick T, Evans EH// \*Univ Plymouth, Sch Earth Ocean & Environm Sci, Speciat & Environm Anal Res Grp, Drake Circus, Plymouth PL4 8AA, England  
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Uncertainty contributions to single and double isotope dilution mass spectrometry with HPLC-CV-MC-ICP-MS for the determination of methylmercury in fish tissue
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- De Souza D, Machado SAS// Univ Sao Paulo, Inst Quim Sao Carlos, Dept Fis Quim, CP 780, BR-13560-970 Sao Carlos, SP, Brazil  
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- Kishida K, Furusawa N// \*Osaka City Univ, Grad Sch Human Life Sci,

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Simultaneous determination of sulfamonomethoxine, sulfadimethoxine, and their hydroxy/ $N^4$ -acetyl metabolites with gradient liquid chromatography in chicken plasma, tissues, and eggs
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- Mehta SK, Malik AK, Singh B, Rao AL// Punjabi Univ, Dept Chem, IN-147002 Patiala, Punjab, India  
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