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## Bibliography of analytical, nutritional and clinical methods

(4 weeks journals. Search completed at 5th. May 2004)

### 1. Books, reviews & symposia

Poms RE, Klein CL, Anklam E// \*Commiss Eur Communities DG Joint Res Ctr, Inst Ref Mat & Measurements, Retieseweg, BE-2440 Geel, Belgium  
*Food Addit Contam* 2004 **21** (1) 1  
Methods for allergen analysis in food: A review

### 3. Amino acids, proteins & enzymes

Furukawa S, Mizuma T, Kiyokawa Y, Masumura T, Tanaka K, Wakai Y// Kizakura Sake Brewing Co Ltd, 53 Kajiwara cho, Fushimi ku, Kyoto 612 8242, Japan  
*J Biosci Bioeng* 2003 **96** (5) 467  
Distribution of storage proteins in low-glutelin rice seed determined using a fluorescent antibody

Penas E, Prestamo G\*, Gomez R// \*Ciudad Univ, Dept Ciencia & Tecnol Prod Veg, Inst Frio, ES-28040 Madrid, Spain  
*Food Chem* 2004 **85** (4) 641  
High pressure and the enzymatic hydrolysis of soybean whey proteins

Yust MM, Pedroche J, Giron-Calle J, Vioque J, Millan F, Alaiz M// \*Inst Grasa - CSIC, Avda Padre Garcia Tejero 4, ES-41012 Seville, Spain  
*Food Chem* 2004 **85** (2) 317  
Determination of tryptophan by high-performance liquid chromatography of alkaline hydrolysates with spectrophotometric detection

### 4. Carbohydrates

Cabalkova J, Zidkova J, Pribyla L, Chmelik J// \*Acad Sci Czech Rep, Inst Analyt Chem, Veveri 97, CZ-61142 Brno, Czech Republic  
*Electrophoresis* 2004 **25** (3) 487  
Determination of carbohydrates in juices by high-performance liquid capillary electrophoresis, chromatography, and matrix-assisted laser desorption/ionization-time of flight-mass spectrometry

Danisman T, Tan S\*, Kacar Y, Ergene A// \*Kirikkale Univ, Sci & Literature Fac, Dept Biol, Kirikkale, Turkey  
*Food Chem* 2004 **85** (3) 461  
Covalent immobilization of invertase on microporous pHEMA-GMA membrane

Gomis DB, Tamayo DM, Valles BS, Alonso JJM// Univ Oviedo, Fac Quim, Dept Quim Fis & Analit, ES-33006 Oviedo, Spain  
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Detection of apple juice concentrate in the manufacture of natural and sparkling cider by means of HPLC chemometric sugar analyses

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*J Near Infrared Spectrosc* 2003 **11** (5) 379  
Starch index determination of apple fruit by means of a hyperspectral near infrared reflectance imaging system

Tewari J, Mehrotra R, Irudayaraj J// \*Penn State Univ, Dept Agr & Biol Engn, 227 Agr Engn Bldg, University Park, Pa 16802, USA  
*J Near Infrared Spectrosc* 2003 **11** (5) 351

Direct near infrared analysis of sugar cane clear juice using a fibre-optic transmittance probe

### 5. Lipids

Breton C, Claux D, Metton I, Skorski G, Berville A// \*Phylogene, Espace Innovat 2, 110 Allee C Babbage, FR-30035 Nimes, France  
*J Agric Food Chem* 2004 **52** (3) 531  
Comparative study of methods for DNA preparation from olive oil samples to identify cultivar SSR alleles in commercial oil samples: Possible forensic applications

Byrdwell WC, Neff WE// Florida Atlantic Univ, Dept Chem & Biochem, 777 Glades Rd, Boca Raton, FL 33431, USA  
*J Am Oil Chem Soc* 2004 **81** (1) 13  
Electrospray ionization MS of high MW TAG oligomers

Fauconnot L, Hau J, Aeschlimann JM, Fay LB, Dionisi F// Nestec Ltd, Nestle Res Ctr, Verschez-les-Blanc, PO Box 44, CH-1000 Lausanne 26, Switzerland  
*Rapid Commun Mass Spectrom* 2004 **18** (2) 218  
Quantitative analysis of triacylglycerol regiosomers in fats and oils using reversed-phase high-performance liquid chromatography and atmospheric pressure chemical ionization mass spectrometry

Kim SJ, Woo HK, Seo MY, Joh YG// \*Dong A Univ, Dept Food Sci & Nutr, 840 Hadan 2 dong, Saha gu, Pusan 604 717, South Korea  
*Food Sci Biotechnol* 2003 **12** (4) 326  
Analysis of fatty acids in puffer fish liver oils by combined chromatographic procedures - Resolution of fatty acid methyl esters by Ag<sup>+</sup>-chromatography and their identification by GC-MS using 4,4-dimethyloxazoline derivatives

Narine SS, Humphrey KL// Univ Alberta, Agr Forestry Ctr, Edmonton, Alberta, Canada T6G 2P5  
*J Am Oil Chem Soc* 2004 **81** (1) 101  
Extending the capability of pulsed NMR instruments to measure solid fat content as a function of both time and temperature (Letter)

Spyros A, Philippidis A, Dais P// \*Univ Crete, Dept Chem, NMR Lab, GR-71409 Iraklion, Crete, Greece  
*J Agric Food Chem* 2004 **52** (2) 157  
Kinetics of diglyceride formation and isomerization in virgin olive oils by employing <sup>31</sup>P NMR spectroscopy. Formulation of a quantitative measure to assess olive oil storage history

Velasco J, Andersen ML, Skibsted LH// Royal Vet & Agr Univ, Dept Dairy & Food Science, Food Chem, Rolighedsvej 30, DK-1958 Frederiksberg C, Denmark  
*Food Chem* 2004 **85** (4) 623  
Evaluation of oxidative stability of vegetable oils by monitoring the tendency to radical formation. A comparison of electron spin resonance spectroscopy with the Rancimat method and differential scanning calorimetry

### 6. Vitamins & co-factors

Nelson BC, Pfeiffer CM, Margolis SA, Nelson CP// Natl Inst Stand & Technol, Div Analyt Chem, Gaithersburg, Md 20899, USA  
*Anal Biochem* 2004 **325** (1) 41  
Solid-phase extraction-electrospray ionization mass spectrometry for the quantification of folate in human plasma or serum

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.

- Pfeiffer CM, Fazili Z, McCoy L, Zhang M, Gunter EW// CDC, 4770 Buford Highway NE, MS F18, Atlanta, Ga 30341, USA  
*Clin Chem* 2004 **50** (2) 423  
 Determination of folate vitamers in human serum by stable-isotope-dilution tandem mass spectrometry and comparison with radioassay and microbiologic assay
- Wang ZX, Yin S, Zhao XF, Russell RM, Tang GW// Chinese Ctr Dis Control & Prevent, Natl Inst Nutr & Food Safety, Room 202, 29 Nanwei Rd, CN-100050 Beijing, Peoples Rep China  
*Br J Nutr* 2004 **91** (1) 121  
 $\beta$ -Carotene-vitamin A equivalence in Chinese adults assessed by an isotope dilution technique

## 7. Trace elements & minerals

- Ando M, Takizawa M, Suwabe S, Yamato S, Shimada K// Niigata Univ Pharm & Appl Life Sci, Dept Analyt Chem, 5-13-2 Kamishinei-cho, Niigata 950-2081, Japan  
*Eur J Mass Spectrom* 2004 **9** (6) 619  
 Determination of selenium in human serum by liquid chromatography/electron capture atmospheric pressure chemical ionization mass spectrometry after acid digestion and derivatization using 2,3-diaminonaphthalene
- Boeynaems JM, De Leener A, Dessars B, Villa-Lobos HR, Aubry JC, Cotton F, Thiry P// Free Univ Brussels, Hop Erasme, Dept Clin Pathol, Med Chem Lab, 808 Route Lennik, BE-1070 Brussels, Belgium  
*Clin Chem Lab Med* 2004 **42** (1) 67  
 Evaluation of a new generation of plastic evacuated blood-collection tubes in clinical chemistry, therapeutic drug monitoring, hormone and trace metal analysis
- Bohn T, Walczyk T, Davidsson L, Pritzkow W, Klingbeil P, Vogl J, Hurrell RF// Ohio State Univ, Food Sci & Technol Bldg, 2015 Fyffe Rd, Columbus, Oh 43210, USA  
*Br J Nutr* 2004 **91** (1) 113  
 Comparison of urinary monitoring, faecal monitoring and erythrocyte analysis of stable isotope labels to determine magnesium absorption in human subjects
- Kajic P, Milosev I\*, Pihlar B, Pisot V// \*Jozef Stefan Inst, Dept Phys & Organ Chem, Jamova 39, SI-1001 Ljubljana, Slovenia  
*J Trace Elem Med Biol* 2003 **17** (3) 153  
 Determination of trace cobalt concentrations in human serum by adsorptive stripping voltammetry
- Kim M// Korea Food & Drug Adm, Dept Food Evaluat, 5 Nokbun dong, Seoul 122 704, South Korea  
*Food Addit Contam* 2004 **21** (2) 154  
 Determination of lead and cadmium in wines by graphite furnace atomic absorption spectrometry
- Sugihara S, Kondo M, Chihara Y, Yuji M, Hattori H, Yoshida M// \*Kansai Univ, Fac Engn, Dept Biotechnol, Lab Food & Nutr Sci, Yamate 3-3-35, Suita, Osaka 567 8680, Japan  
*Biosci Biotechnol Biochem* 2004 **68** (1) 193  
 Preparation of selenium-enriched sprouts and identification of their selenium species by high-performance liquid chromatography-inductively coupled plasma mass spectrometry

- Trombella BE, Caputi A, Musso D, Ribeiro A, Ryan T// E&J Gallo Winery, Dept Analyt Sci, POB 1130, Modesto, Ca 95353, USA  
*J AOAC Int* 2003 **86** (6) 1203  
 Determination of fluoride in wine by fluoride selective ion electrode, standard addition method: Collaborative study

## 8. Drug, biocide & processing residues

- Bailac S, Ballesteros O, Jimenez-Lozano E, Barron D, Sanz-Nebot V, Navalón A, Vilchez JL, Barbosa J\*// \*Univ Barcelona, Dept Analyt Chem, Martí i Franques 1-11, ES-08028 Barcelona, Spain  
*J Chromatogr A* 2004 **1029** (1-2) 145  
 Determination of quinolones in chicken tissues by liquid chromatography with ultraviolet absorbance detection
- Bayram G, Delincee H// Minist Hlth, Publ Hlth Lab, TR-06520 Ankara, Turkey  
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- Cossu M, Alamanni MC// Univ Sassari, Dipt Sci Farm, Via Muroni 23/A, IT-07100 Sassari, Italy  
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 Multilaboratory validation of a method to confirm chloramphenicol in shrimp and crabmeat by liquid chromatography tandem mass spectrometry
- Hiatt MH, Pia JH\*// \*US/EPA, Natl Exposure Res Lab, Div Environm Sci, POB 93478, Las Vegas, Nv 89193, USA  
*Arch Environ Contam Toxicol* 2004 **46** (2) 189  
 Screening processed milk for volatile organic compounds using vacuum distillation/gas chromatography/mass spectrometry
- Jimenez-Lozano E, Roy D, Barron D, Barbosa J\*// \*Univ Barcelona, Dept Analyt Chem, Avda Diagonal 647, ES-08028 Barcelona, Spain  
*Electrophoresis* 2004 **25** (1) 65  
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- Kishida K, Furusawa N\*// \*Osaka City Univ, Grad Sch Human Life Sci, Sumiyoshi ku, Osaka 558 8585, Japan  
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 Application of shielded column liquid chromatography for determination of sulfamonomethoxine, sulfadimethoxine, and their N<sub>4</sub> acetyl metabolites in milk
- Knecht BG, Strasser A, Dietrich R, Martlbauer E, Niessner R, Weller MG\*// \*TUM, Inst Hydrochem, Marchioninistr 17, DE-81377 Munich, Germany  
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 Automated microarray system for the simultaneous detection of antibiotics in milk
- Primus TM, Kohler DJ, Goodall MA, Yoder C, Mathies T, Miller L, Johnston JJ, Vercauteren K// USDA Anim & Plant Hlth Inspect Serv, Natl Wildlife Res Ctr, 4101 Laporte Ave, Fort Collins, Co 80521, USA  
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 Liquid chromatographic determination of 4,4'-dinitrocarbanilide, the active component of the infertility agent nicarbazin, in chicken, duck, goose, and snake eggs
- Sanchez R, Vazquez A, Andini JC, Villen J\*// \*Univ Castilla La Mancha, Escuela Tecn Super Ingn Agronomos, Campus Univ s/n, ES-02071 Albacete, Spain  
*J Chromatogr A* 2004 **1029** (1-2) 167  
 Automated multiresidue analysis of pesticides in olive oil by on-line reversed-phase liquid chromatography-gas chromatography using the through oven transfer adsorption-desorption interface
- Ueno E, Oshima H, Saito I, Matsumoto H, Nakazawa H// Aichi Prefectural Inst Publ Hlth, Tsuji machi, Kita ku, Nagoya, Aichi 462 8576, Japan  
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 Determination of nitrogen- and phosphorus-containing pesticide residues in vegetables by gas chromatography with nitrogen-phosphorus and flame photometric detection after gel permeation chromatography and a two-step mini-column cleanup
- Wang J// Canadian Food Inspect Agcy, Calgary Lab, 3650 36th St NW, Calgary, Alberta, Canada T2L 2L1  
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 Determination of five macrolide antibiotic residues in honey by LC-ESI-MS and LC-ESI-MS/MS
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- Azanza MPV, Azanza RV, Ventura SR// Univ Philippines, Coll Home Econ, Dept Food Sci & Nutr, Dilliman, PH-1101 Quezon City, Philippines  
*J Food Saf* 2003 **23** (4) 249  
 Varied assays for PSP toxins in heat shocked Philippine green mussels (*Perna viridis*)
- Eisele TA, Gibson MZ// Tree Top Inc, POB 248, 111 Sth Railroad Ave, Saleh, Wa 98942, USA  
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- Kim EK, Maragos CM\*, Kendra DF// \*USDA/ARS, Natl Ctr Agr Utilizat Res, Mycotoxin Res Unit, 1815 Nth Univ St, Peoria, Il 61604, USA  
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- Liquid chromatographic determination of fumonisins B<sub>1</sub>, B<sub>2</sub>, and B<sub>3</sub> in corn silage  
Launay FM, Young PB, Sterk SS, Blokland MH, Kennedy DG\*// \*Dept Agr & Rural Dev, Vet Sci Div, Belfast BT4 3SD, Northern Ireland  
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MacDonald SJ, Anderson S, Brereton P, Wood R// DEFRA, Cent Sci Lab, York YO41 1LZ, England  
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- Determination of potato glycoalkaloids using high-pressure liquid chromatography-electrospray ionization/mass spectrometry  
Papachristou A, Markaki P\*// \*Univ Athens, Sch Chem, Dept Food Chem, GR-15771 Athens, Greece  
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Saez JM, Medina A, Gimeno-Adelantado JV, Mateo R\*, Jimenez M// \*Univ Valencia, Fac Quim, Dept Quim Analit, C/ Dr Moliner 50, ES-46100 Valencia, Spain  
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- Comparison of different sample treatments for the analysis of ochratoxin A in must, wine and beer by liquid chromatography  
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- Estimating deoxynivalenol in shelled corn barge lots by measuring deoxynivalenol in corn screenings
- ## 10. Additives
- Rios AD, Mercadante AZ\*// \*Univ Estadual Campinas, Fac Food Engineer, Dept Food Sci, CP 6121, BR-13083970 Campinas, SP, Brazil  
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- Novel method for the determination of added annatto colour in extruded corn snack products
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- Bennett RN, Mellon FA, Kroon PA// AFRC Inst Food Res, Norwich Res Pk, Norwich NR4 7UA, England  
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- Components detected by means of solid-phase microextraction and gas chromatography/mass spectrometry in the headspace of artisan fresh goat cheese smoked by traditional methods  
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Kanaze FI, Kokkalou E, Georgarakis M, Niopas I\*// \*Aristotle Univ Thessaloniki, Sch Hlth Sci, Dept Pharm, GR-54124 Thessaloniki, Greece  
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- Validated high-performance liquid chromatographic method utilizing solid-phase extraction for the simultaneous determination of naringenin and hesperetin in human plasma  
Kulusic T, Radonic A, Katalinic V, Milos M// \*University Split, Faculty Chem Technol, Dept Biochem & Food Chem, Teslina 10/V, HR-21000 Split, Croatia  
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- Use of different methods for testing antioxidative activity of oregano essential oil  
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 Gas chromatographic method for putrescine and cadaverine in shrimp
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 Analysis of derivatized and underivatized theanine enantiomers by high-performance liquid chromatography/atmospheric pressure ionization-mass spectrometry
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 Detection and quantification of apple adulteration in diluted and sulfited strawberry and raspberry purees using visible and near-infrared spectroscopy
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 Application of MRI to monitor the process of ripening and decay in citrus treated with chitosan solutions
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 NMR identification of ethyl-linked anthocyanin-flavanol pigments formed in model wine fermentations
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