

Bibliography of analytical, nutritional and clinical methods

(4 weeks journals. Search completed at 17th Nov 2004)

1. Books, reviews & symposia

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3. Amino acids, proteins & enzymes

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have similar sterol profiles, as determined by quantitative liquid chromatogra-
phy and mass spectrometry analysis

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.

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 Expedient Soxhlet extraction of resorcinolic lipids from wheat grains

6. Vitamins & co-factors

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 Development of a simplified method for the simultaneous determination of retinol α -tocopherol, and β -carotene in serum by liquid chromatography-tandem mass spectrometry with atmospheric pressure chemical ionization
 Norman EJ// Norman Clin Lab Inc, 1044 Surwood Ct, Cincinnati, Oh 45231, USA
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 Urinary methylmalonic acid test may have greater value than the total homocysteine assay for screening elderly individuals for cobalamin deficiency (Letter)
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7. Trace elements & minerals

Capitan-Vallvey LF, Fernandez-Ramos MD, Galvez PAD, Santoyo-Gonzalez F// Univ Granada, Dept Analyt Chem, ES-18071 Granada, Spain
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 Determination of As, Sb, Se, Te and Bi in milk by slurry sampling hydride generation atomic fluorescence spectrometry
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 Cold vapour atomic fluorescence determination of mercury in milk by slurry sampling using multicommutation
 Connolly CD, Power RF, Hynes MJ// Alltech Biotechnol Ctr, Dunboyne, Meath, Rep Ireland
Biol Tr Elem Res 2004 **100** (1) 87
 Validation of method for total selenium determination in yeast by flame atomic absorption spectrometry
 Dugo G, La Pera L, Lo Turco V, Giuffrida D, Restuccia S// University Messina, Dept Organ & Biol Chem, Salita Sperone 31, IT-98166 Messina, Italy
Food Addit Contam 2004 **21** (7) 649
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Phys Tech & Devices Qual Control, Div Appl Biophys, RU-620002 Ekaterinburg, Russia
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Anal Bioanal Chem 2004 **378** (5) 1376
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 Fractionation analysis of magnesium in olive products by atomic absorption spectrometry

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 Improved sample preparation to determine acrylamide in difficult matrixes such as chocolate powder, cocoa, and coffee by liquid chromatography tandem mass spectrometry
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Accelerated solvent extraction and confirmatory analysis of sulfonamide residues in raw meat and infant foods by liquid chromatography electrospray tandem mass spectrometry

Granvogel M, Jezussek M, Koehler P, Schieberle P*// *Tech Univ Munich, Lehrstuhl Lebensmittelchem, Lichtenbergstr 4, DE-85748 Garching, Germany
J Agric Food Chem 2004 **52** (15) 4751

Quantitation of 3-aminopropionamide in potatoes - A minor but potent precursor in acrylamide formation

Halme K, Lindfors E*, Peltonen K// *Natl Vet & Food Res Inst, Dept Chem, POB 45, FI-00581 Helsinki, Finland
Food Addit Contam 2004 **21** (7) 641

Determination of malachite green residues in rainbow trout muscle with liquid chromatography and liquid chromatography coupled with tandem mass spectrometry

Hetherington CL, Sykes MD*, Fussell RJ, Goodall DM// *Central Sci Lab, Sand Hutton, York YO41 1LZ, England
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A multi-residue screening method for the determination of 73 pesticides and metabolites in fruit and vegetables using high-performance liquid chromatography/tandem mass spectrometry

Ipolyi I, Massanisso P, Sposato S, Fodor P, Morabito R*// *ENEA, Prot Chim, Via Anguillarese 301, IT-00060 Rome, Italy
Anal Chim Acta 2004 **505** (1) 145

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Kim BH, Lee SJ, Kim HS, Chang YS*// *Pohang Univ Sci & Technol, Sch Environm Sci & Engr, San 31, Pohang 790 784, South Korea
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Anal Bioanal Chem 2004 **378** (5) 1313

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J Agric Food Chem 2004 **52** (16) 4975

Development of an indirect competitive ELISA for flumequine residues in raw milk using chicken egg yolk antibodies

You J, Lydy MJ*// *Stn Illinois Univ, Fisheries & Illinois Aquaculture Ctr, Carbondale, Il 62901, USA
Int J Environ Anal Chem 2004 **84** (8) 559

Simultaneous determination of pyrethroid, organophosphate, and organochlorine pesticides in fish tissue using tandem solid-phase extraction clean-up

9. Toxins/Allergens

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J Food Compos Anal 2004 **17** (5) 665

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Anal Bioanal Chem 2004 **378** (5) 1182

Production of a calibrant certified reference material for determination of the estrogenic mycotoxin zearalenone

Josephs RD, Koeber R, Linsinger TPJ, Bernreuther A, Ulberth F, Schimmel H// Commiss European Communities DG Joint Res Ctr, Inst Reference Mat & Measurements, Retieseweg 111, BE-2440 Geel, Belgium
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Quantitative analysis of *Fusarium* mycotoxins in maize using accelerated solvent extraction before liquid chromatography atmospheric pressure chemical ionization tandem mass spectrometry

Royer D, Humpf HU, Guy PA*// *Nestec Ltd, Nestle Res Ctr, Vers-chez-les-Blanc, CH-1000 Lausanne 26, Switzerland
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Production of certified reference materials for mycotoxins: IRMM's view on the assessment of uncertainties

10. Additives

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Food Addit Contam 2004 **21** (7) 632

Analytical strategies for the detection of non-labelled anabolic androgenic steroids in nutritional supplements

Urdiain M, Domenech-Sanchez A, Alberti S, Benedi VJ, Rossello JA*// *Univ Valencia, Jardin Botanico, C/ Quart 80, ES-46008 Valencia, Spain
Food Addit Contam 2004 **21** (7) 619

Identification of two additives, locust bean gum (E-410) and guar gum (E-412), in food products by DNA-based methods

11. Flavours & aromas

Estevez M, Ventanas S, Ramirez R, Cava R// Univ Extremadura, Fac Vet, ES-10071 Caceres, Spain
J Agric Food Chem 2004 **52** (16) 5168

Analysis of volatiles in porcine liver pates with added sage and rosemary essential oils by using SPME-GC-MS

Fang T, Goto M*, Sasaki M, Hirose T// *Kumamoto Univ, Dept Appl Chem & Biochem, Kumamoto 860 8555, Japan
J Agric Food Chem 2004 **52** (16) 5162

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J Agric Food Chem 2004 **52** (16) 5124

Identification of trace volatile compounds in freshly distilled calvados and cognac using preparative separations coupled with gas chromatography-mass spectrometry

Mehinagic E, Prost C, Demaimay M// Ecole Natl Ingn Tech Ind Agr & Alimentaires, Lab Biochim Alimentaire & Ind, FR-44322 Nantes 3, France
J Agric Food Chem 2004 **52** (16) 5175

Optimization of extraction of apple aroma by dynamic headspace and influence of saliva on extraction of volatiles

Modise DM, Wright CJ, Watson R, Linforth R, Taylor AJ// Botswana Coll Agr, Crop Sci & Prod Dept, Private Bag 0027, Gaborone, Botswana
S Afr J Bot 2004 **70** (2) 306

Flavour volatile compound analysis in strawberry (*Fragaria x ananassa* Duch.) fruits: Comparison of two mass spectrometer techniques for identifying volatile compounds

Salinas M, Zalacain A, Pardo F, Alonso GL// Univ Castilla La Mancha, ETSI Agronomos, Campus Univ, ES-02071 Albacete, Spain
J Agric Food Chem 2004 **52** (15) 4821

Stir bar sorptive extraction applied to volatile constituents evolution during *Vitis vinifera* ripening

Van Ruth SM, Dings L, Buhr K, Posthumus MA// Natl Univ Ireland, Univ Coll Cork, Dept Food Sci & Nutr, Western Rd, Cork, Rep Ireland
Food Res Int 2004 **37** (8) 785

In vitro and *in vivo* volatile flavour analysis of red kidney beans by proton transfer reaction-mass spectrometry

13. Animal products

Boner M, Forstel H// Forschungszentrum Jülich, Helmholtz Gesellschaft, DE-52428 Jülich, Germany

Anal Bioanal Chem 2004 **378** (2) 301

Stable isotope variation as a tool to trace the authenticity of beef

Colombo F, Trezzi I, Bernardi C, Cantoni C, Renon P// Dipt Sci & Tecnol Vet Sicurezza Alimentare, Via Grasselli 7, IT-20137 Milan, Italy

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A case of identification of pectinid scallop (*Pecten jacobaeus*, *Pecten maximus*) in a frozen and seasoned food product with PCR technique

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J Dairy Sci 2004 **87** (8) 2331

Measurement of total estrone content in foods. Application to dairy products

Hu FY, Furihata K, Ito-Ishida M, Kaminogawa S, Tanokura M*// *Univ Tokyo, Grad Sch Agr & Life Sci, Dept Appl Biol Chem, 1-1-1 Yayoi, Bunkyo ku, Tokyo 113 8657, Japan

J Agric Food Chem 2004 **52** (16) 4969

Nondestructive observation of bovine milk by NMR spectroscopy: Analysis of existing states of compounds and detection of new compounds

Kaneki N, Miura T, Shimada K, Tanaka H, Ito S, Hotori K, Akasaka C, Ohkubo S, Asano Y// Muroan Inst Technol, Satellite Venture Business Lab, Mizumoto cho 27-1, Muroan, Hokkaido 050 858, Japan

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Measurement of pork freshness using potentiometric sensor

Mafra I, Ferreira IMPLVO, Faria MA, Oliveira BPP// Univ Porto, Fac Farm, Serv Bromatol, REQUIMTE, Rua Anibal Cunha 164, PT-4099-030 Oporto, Portugal

J Agric Food Chem 2004 **52** (16) 4943

A novel approach to the quantification of bovine milk in ovine cheeses using a duplex polymerase chain reaction method

14. Plant & microbial products

Aaby K, Hvattum E, Skrede G// Norwegian Food Res Inst, Matforsk, Osloveien 1, NO-1430 Aas, Norway

J Agric Food Chem 2004 **52** (15) 4595

Analysis of flavonoids and other phenolic compounds using high-performance liquid chromatography with coulometric array detection: Relationship to anti-oxidant activity

Benlhabib E, Baker JI, Keyler DE, Singh AK*// *Univ Minnesota, Coll Vet Med, Dept Vet Diagnost Med, St Paul Campus, 1333 Gortner Ave, St Paul, Mn 55108, USA

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Quantitative analysis of phytoestrogens in kudzu-root, soy and spiked serum samples by high-pressure liquid chromatography

Berardini N, Carle R, Schieber A*// *Hohenheim Univ, Inst Food Technol, Sect Plant Foodstuff Technol, August-von-Hartmann-Str 3, DE-70599 Stuttgart, Germany

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Characterization of gallotannins and benzophenone derivatives from mango (*Mangifera indica* L. cv. 'Tommy Atkins') peels, pulp and kernels by high-performance liquid chromatography/electrospray ionization mass spectrometry

Black CK, Panozzo JF// Primary Ind Res Victoria, Dept Primary Ind, 110 Natimuk Rd, Horsham, Vic 3400, Australia

Cereal Chem 2004 **81** (4) 469

Accurate technique for measuring color values of grain and grain products using a visible-NIR instrument

Bonoli M, Verardo V, Marconi E, Caboni MF// Univ Bologna, Dipt Sci Alimenti, Via Ravennate 1020, IT-47023 Cesena, FC, Italy

J Agric Food Chem 2004 **52** (16) 5195

Phenols in barley (*Hordeum vulgare* L) flour: Comparative spectrophotometric study among extraction methods of free and bound phenolic compounds

Chen QC// 1754 39th St SW, Apt 202, Fargo, ND 58103, USA

J Agric Food Chem 2004 **52** (15) 4604

Determination of phytic acid and inositol pentakisphosphates in foods by high-performance ion chromatography

Hernandez M, Duplan MN, Berthier G, Vaitilingom M, Hauser W, Freyer R, Pla M, Bertheau Y*// *INRA, Routes St Cyr, FR-8026 Versailles, France

J Agric Food Chem 2004 **52** (15) 4632

Development and comparison of four real-time polymerase chain reaction systems for specific detection and quantification of *Zea mays* L.

Kumagai M, Matsuura N, Li H, Ohisa N, Amano T, Ogawa N// Akita Res Inst Food & Brewing, Akita 010 1623, Japan

J Near Infrared Spectrosc 2004 **12** (2) 127

Application of a portable near infrared spectrometer for the manufacturing of noodle products

Labuschagne AT, Koen E, Dessalegn T// Univ Orange Free State, Dept Plant Sci, POB 339, ZA-9300 Bloemfontein, Rep Sth Africa

Cereal Chem 2004 **81** (4) 533

Use of size-exclusion high-performance liquid chromatography for wheat quality prediction in Ethiopia

Leon L, Garrido-Varo A, Downey G// Teagasc, Natl Food Ctr, Dublin 15, Rep Ireland

J Agric Food Chem 2004 **52** (16) 4957

Parent and harvest year effects on near-infrared reflectance spectroscopic analysis of olive (*Olea europaea* L.) fruit traits

McGlone VA, Fraser DG, Jordan RB, Kunnemeyer R// HortRes, Bioengn Sect, Private Bag 3123, Ruakura Agr Res Ctr, Hamilton, New Zealand

J Near Infrared Spectrosc 2003 **11** (5) 323

Internal quality assessment of mandarin fruit by vis/NIR spectroscopy

Milder IEJ, Arts LCW, Venema DP, Lasaroms JJP, Wahala K, Hollman PCH// Univ Wageningen & Res Ctr, RIKILT, Inst Food Safety, POB 230, NL-6700 AE Wageningen, The Netherlands

J Agric Food Chem 2004 **52** (15) 4643

Optimization of a liquid chromatography-tandem mass spectrometry method for quantification of the plant lignans secoisolariciresinol, matairesinol, lariciresinol, and pinoresinol in foods

Nenadis N, Wang LF, Tsimidou M*, Zhang HY// *Aristotle Univ Thessaloniki, Sch Chem, Food Chem & Technol Lab, GR-54124 Thessaloniki, Greece

J Agric Food Chem 2004 **52** (15) 4669

Estimation of scavenging activity of phenolic compounds using the ABTS** assay

Nishitani E, Sagesaka YM// Ito En Ltd, Cent Res Inst, 21 Mekami, Sagara cho, Shizuoka 421 0516, Japan

J Food Compos Anal 2004 **17** (5) 675

Simultaneous determination of catechins, caffeine and other phenolic compounds in tea using new HPLC method

Nousiainen J, Ahvenjarvi S, Rinne M, Hellamaki M, Huhtanen P*// *MTT Agrifood Res Finland, Anim Prod Res, FI-31600 Jokioinen, Finland

Anim Feed Sci Technol 2004 **115** (3-4) 295

Prediction of indigestible cell wall fraction of grass silage by near infrared reflectance spectroscopy

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