

Bibliography of analytical, nutritional and clinical methods

(3 weeks journals. Search completed at 8th Dec 2004)

1. Books, reviews & symposia

Munoz-Olivas R// Univ Complutense Madrid, Fac CC Quim, Dept Quim Analit, Avda Complutense, ES-28040 Madrid, Spain
Trends Anal Chem 2004 **23** (3) 203
Screening analysis: An overview of methods applied to environmental, clinical and food analyses

3. Amino acids, proteins & enzymes

Sebastian-Francisco I, Simo-Alfonso EF, Mongay-Fernandez C, Ramis-Ramos G*// *Univ Valencia, Fac Quim, Dept Quim Analit, Dr Moliner 50, ES-46100 Burjassot, Spain
Anal Chim Acta 2004 **508** (2) 135
Improvement of the electrophoretic protein profiles of Leguminosae gums extracts using gamanase and application to the evaluation of carob-guar mixtures
Zhang H, Takenaka M, Isobe S// Natl Food Res Inst, Food Proc Lab, Tsukuba, Ibaraki 305 8642, Japan
J Therm Anal Calorim 2004 **75** (3) 719
DSC and electrophoretic studies on soy milk protein denaturation

4. Carbohydrates

Tumang CA, Tomazzini MC, Reis BF*// *Univ Sao Paulo, Inst Quim Sao Carlos, Sao Paulo, Brazil
Anal Sci 2003 **19** (12) 1683
Automatic procedure exploiting multicommutation in flow analysis for simultaneous spectrophotometric determination of nonstructural carbohydrates and reducing sugar in forage materials

5. Lipids

Ayuso J, Haro MR, Escolar D*// *Univ Cadiz, Dept Quim Fis, Apdo 40, ES-11510 Puerto Real, Cadiz, Spain
Appl Spectrosc 2004 **58** (4) 474
Simulation of the visible spectra for edible virgin olive oils: Potential uses
Dweck J, Sampaio CMS// Univ Fed Rio de Janeiro, Sch Chem, BR-21941-900 Rio de Janeiro, Brazil
J Therm Anal Calorim 2004 **75** (2) 385
Analysis of the thermal decomposition of commercial vegetable oils in air by simultaneous TG/DTA
Gil B, Cho YJ, Yoon SH// Anyang Univ, Dept Food & Nutr, 708-113 Anyang 5 dong, 430 714 Anyang, Kyonggi do, South Korea
Lebensm Wiss Technol Food Sci 2004 **37** (6) 657
Rapid determination of polar compounds in frying fats and oils using image analysis
Ruiz-Jimenez J, Priego-Capote F, Luque de Castro MD*// *Univ Cordoba, Dept Analyt Chem, Annex Marie Curie Bldg C-3, Campus Rabanales, ES-14071 Cordoba, Spain
J Chromatogr A 2004 **1045** (1-2) 203

Identification and quantification of *trans* fatty acids in bakery products by gas chromatography-mass spectrometry after dynamic ultrasound-assisted extraction

6. Vitamins & co-factors

Darvin ME, Gersonde I, Ey S, Brandt NN, Albrecht H, Gonchukov SA, Sterry W, Lademann J// Humboldt Univ, Med Fac Charite, Ctr Expt & Appl Cutaneous Physiol, CCP, Berlin, Germany
Laser Phys 2004 **14** (2) 231
Noninvasive detection of β -carotene and lycopene in human skin using Raman spectroscopy
Matei N, Birghila S, Dobrinas S, Capota P// Univ Ovidius Constantza, Dept Chem, 124 Mamaia Blvd, RO-8700 Constanta, Romania
Acta Chim Slov 2004 **51** (1) 169
Determination of C vitamin and some essential trace elements (Ni, Mn, Fe, Cr) in bee products
Presoto AEF, Rios MDG, De Almeida-Muradian LB*// *Univ Sao Paulo, Fac Ciencias Farmaceut, Avda Prof Lineu Prestes 580, Bloco 14, BR-05508-900 Sao Paulo, Brazil
J Brazil Chem Soc 2004 **15** (1) 136
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Teixeira MFS, Marino G, Dockal ER, Cavalheiro ETG*// *Univ Sao Paulo, Inst Quim Sao Carlos, Avda Trabalhador Sao Carlense 400, BR-13560-970 Sao Carlos, SP, Brazil
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J Supercrit Fluid 2004 **29** (1-2) 87
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Watanabe F, Michihata T, Takenaka M, Kittaka-Katsura H, Enomoto T, Miyamoto E, Adachi S// Kochi Womens Univ, Dept Hlth Sci, Kochi 780 8515, Japan
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Purification and characterization of corrinoid compounds from a Japanese fish sauce
Wold JP, Marquardt BJ, Dable BK, Robb D, Hatlen B// Norwegian Food Res Inst, Matforsk, Osloveien 1, NO-1430 As, Norway
Appl Spectrosc 2004 **58** (4) 395
Rapid quantification of carotenoids and fat in Atlantic salmon (*Salmo salar* L.) by Raman spectroscopy and chemometrics

7. Trace elements & minerals

Anwar F, Kazi TG, Jakharani MA, Sultana R, Sahito SR// PCSIR Labs Complex, Appl Chem Res Ctr, PK-75280 Karachi, Pakistan
J Chem Soc Pakistan 2003 **25** (3) 210

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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J Radioanal Nucl Chem 2004 **259** (3) 421
- Conventional and organic potatoes: Assessment of elemental composition using k_0 -INAA
- Daun C, Lundh T, Onning G, Akesson B** *Lund Univ, Lund Inst Technol, Ctr Chem & Chem Engn, POB 124, SE-22100 Lund, Sweden
J Anal Atom Spectrom 2004 **19** (1) 129
- Separation of soluble selenium compounds in muscle from seven animal species using size exclusion chromatography and inductively coupled plasma mass spectrometry
- Entwisle J// LGC Ltd, Queens Rd, Teddington TW11 0LY, England
Am Lab 2004 **36** (6) 11
- The determination of mercury in microwave digests of foodstuffs by ICP-MS
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J Anal Atom Spectrom 2004 **19** (2) 227
- Application of strontium isotope abundance ratios measured by MC-ICP-MS for food authentication
- Hammer D, Basic-Drvorzak M, Perring L// Nestle Res Ctr, Dept Qual & Safety Assurance, POB 44, CH-1000 Lausanne 26, Switzerland
Atom Spectrosc 2004 **25** (1) 30
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- Hamzah A, Beh CW, Sarmani SB, Liow JY, Abugassal I// University Kebangsaan Malaysia, Sch Biosci & Biotechnol, MY-43600 Bangi, Selangor, Malaysia
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- Studies on elemental analysis of Chinese traditional herbs by neutron activation technique and their mutagenic effect
- Harrington CF, Merson SA, D'Silva TMD// DeMontfort Univ, Leicester Sch Pharm, Met Speciat & Biotransformat Res Grp, The Gateway, Leicester LE1 9BH, England
Anal Chim Acta 2004 **505** (2) 247
- Method to reduce the memory effect of mercury in the analysis of fish tissue using inductively coupled plasma mass spectrometry
- Henze G, Bauer KH// Rosenweg 14, DE-55263 Wackernheim, Germany
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- Voltammetric analysis of wine (German)
- Ingle CP, Langford N, Harvey LJ, Dainty JR, Turner PJ, Sharp BL, Lewis DJ**// *Cent Sci Lab, York YO41 1LZ, England
J Anal Atom Spectrom 2004 **19** (3) 404
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- Jimenez MS, Velarte R, Gomez MT, Castillo JR// Univ Zaragoza, Dept Analyt Chem, Analyt Spect & Sensors Grp, Pedro Cerbuna 12, ES-50009 Zaragoza, Spain
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- Kucera J, Iyengar GV, Randa Z, Parr RM// Inst Phys Nucl, CZ-25068 Rez, Czech Republic
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- Mas-Torres F, Estela JM*, Miro M, Cladera A, Cerda V// *Univ Balearic Isl, Fac Sci, Dept Chem, ES-07122 Palma de Mallorca, Illes Balears, Spain
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Atom Spectrosc 2004 **25** (1) 37
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- Sastri CS, Iyengar V, Demirel-Gulen S, Heck M, Hoffmann P, Ortner HM, Blondiaux G, Tessier Y, Sauvage T, Petri H// Tech Univ Darmstadt, Fachbereich Mat & Geowissenschaften, Fachgebiet Chem Analyt, Petersenstr 23, DE-64287 Darmstadt, Germany
J Radioanal Nucl Chem 2004 **259** (3) 515
- Determination of boron, fluorine and some medium Z elements in diet samples
- Shah M, Kannamkumarath SS, Wuilloud JCA, Wuilloud RG, Caruso JA**// *Univ Cincinnati, Dept Chem, Cincinnati, Oh 45221, USA
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- Identification and characterization of selenium species in enriched green onion (*Allium fistulosum*) by HPLC-ICP-MS and ESI-ITMS
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- Tinggi U, Gianduzzo T, Francis R, Nicol D, Shahin M, Scheelings P// Queensland Hlth Sci Serv, Ctr Publ Hlth Sci, 39 Kessels Rd, Coopers Plains, Qld 4108, Australia
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- Iodine determination in milk by isotope dilution analysis
- Van Hulle M, Zhang C, Schotte B, Mees L, Vanhaecke F, Vanholder R, Zhang XR, Cornelis R// State Univ Ghent, Dept Analyt Chem, Proeftuinstr 86, BE-9000 Ghent, Belgium
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- Identification of some arsenic species in human urine and blood after ingestion of Chinese seaweed *Laminaria*
- Wuilloud RG, Kannamkumarath SS, Caruso JA**// *Univ Cincinnati, Dept Chem, Cincinnati, Oh 45221, USA
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- Zhao JJ, Chen CY*, Zhang PQ, Chai ZF, Qu LY, Li M// *Chinese Acad Sci, Lab Nucl Analyt Technol, POB 918, CN-100039 Beijing, Peoples Rep China
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- Preliminary study of selenium and mercury distribution in some porcine tissues and their subcellular fractions by NAA and HG-AFS

8. Drug, biocide & processing residues

Aguera A, Lopez S, Fernandez-Alba AR*, Contreras M, Crespo J, Piedra L// *Univ Almeria, Pesticide Residue Res Grp, Almeria, Spain
J Chromatogr A 2004 **1045** (1-2) 125

One-year routine application of a new method based on liquid chromatography-tandem mass spectrometry to the analysis of 16 multiclass pesticides in vegetable samples

Batlle R, Nerin C// CPS-Univ Zaragoza, Aragon Inst Engrn Res i3A, Dept Analyt Chem, Torres Quevedo Bldg, Maria de Luna 3, ES-50018 Zaragoza, Spain

J Chromatogr A 2004 **1045** (1-2) 29

Application of single-drop microextraction to the determination of dialkyl phthalate esters in food simulants

Chen S, Gfrerer M*, Lankmayr E, Quan X, Yang F// *Graz Univ Technol, Inst Analyt Chem Micro & Radiochem, Technikerstr 4, AT-8010 Graz, Austria

Chromatographia 2003 **58** (9-10) 631

Optimization of accelerated solvent extraction for the determination of chlorinated pesticides from animal feed

Fragueiro S, Lavilla I, Bendicho C*// *Univ Vigo, Fac Ciencias Quim, Area Quim, Dept Quim Analit & Alimentaria, As Lagoas Marcosende s/n, ES-36200 Vigo, Spain

J Anal Atom Spectrom 2004 **19** (2) 250

Direct coupling of solid phase microextraction and quartz tube-atomic absorption spectrometry for selective and sensitive and sensitive determination of methylmercury in seafood: An assessment of chloride and hydride generation

Gfrerer M, Chen S, Lankmayr EP, Quan X, Yang FL// Graz Univ Technol, Inst Analyt Chem Micro & Radiochem, Technikerstr 4, AT-8010 Graz, Austria

Anal Bioanal Chem 2004 **378** (7) 1861

Comparison of different extraction techniques for the determination of chlorinated pesticides in animal feed

Nagel TG, Weber H, Geissler M, Wenclawiak BW// Univ Siegen, Fachbereich Biol Chem, Adolf Reichwein Str 2, DE-57068 Siegen, Germany
Dtsch Lebensm-Rundsch 2004 **100** (8) 293

Different ionisation techniques in pesticide analysis of potatoes by GC/MS

Nerin C, Asensio E// Univ Zaragoza, Dept Analyt Chem, Maria de Luna 3, ES-50015 Zaragoza, Spain

Anal Chim Acta 2004 **508** (2) 185

Behaviour of organic pollutants in paper and board samples intended to be in contact with food

Otaka H, Yasuhara A, Morita M// Minist Environm, Natl Environm Res & Training Inst, 3-3 Namiki, Tokorozawa, Saitama 359 0042, Japan

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Determination of bisphenol A and 4-nonylphenol in human milk using alkaline digestion and cleanup by solid-phase extraction

Rao RN, Parimala P, Khalid S, Alvi SN// Indian Inst Chem Technol, Div Analyt Chem, HPLC Grp, IN-500007 Hyderabad, India

Anal Sci 2004 **20** (2) 383

Detection of the adulteration of traditional alcoholic beverages by the separation and determination of alprazolam, chloralhydrate and diazepam using reversed-phase high-performance liquid chromatography

Ren M// Adam Mickiewicz Univ Poznan, ul Grunwaldzka 6, PL-60780 Poznan, Poland

Chem Anal 2004 **49** (1) 59

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Yang WP, Zhang ZJ*, Hun X// *Shaanxi Normal Univ, Coll Chem & Mat Sci, CN-710062 Xian, Peoples Rep China

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A novel capillary microliter droplet sample injection-chemiluminescence detector and its application to the determination of benzoyl peroxide in wheat flour

Zamora T, Pozo OJ, Lopez F, Hernandez F*// *Univ Jaume I, Expt Sci Dept, POB 8029, ES-12071 Castellon, Spain

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Determination of tridemorph and other fungicide residues in fruit samples by liquid chromatography-electrospray tandem mass spectrometry

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J Radioanal Nucl Chem 2004 **259** (3) 485

Neutron activation analysis of extractable organohalogens in milk from China

Zhuang WS, McKague B, Reeve D// Taro Pharmaceut Inc, R&D Dept, 130 East Dr, Brampton, Ontario, Canada L6T 1C1

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Mass spectrometric elucidation of chlorine location in dichloro fatty acids following 4,4-dimethylloxazoline derivatization, and its application to chlorinated fatty acids in fish

9. Toxins/Allergens

Kawashima Y, Nagashima Y, Shiomi K*// *Tokyo Univ Marine Sci & Technol, Dept Food Sci & Technol, Konan 4, Minato ku, Tokyo 108 8477, Japan

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Determination of tetramine in marine gastropods by liquid chromatography/electrospray ionization-mass spectrometry

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J Chromatogr A 2004 **1045** (1-2) 223

New solvent systems for thin-layer chromatographic determination of nine biogenic amines in fish and squid

Lehner AF, Craig M, Fannin N, Bush L, Tobin T// Univ Kentucky, Dept Vet Sci, Maxwell H Gluck Equine Res Ctr, Lexington, Ky 40546, USA

J Mass Spectrom 2004 **39** (11) 1275

Fragmentation patterns of selected ergot alkaloids by electrospray ionization tandem quadrupole mass spectrometry

Loukou Z, Zotou A*// *Aristotle Univ Thessaloniki, Dept Chem, Analyt Chem Lab, GR-54124 Thessaloniki, Greece

Chromatographia 2003 **58** (9-10) 579

A comparative survey of the simultaneous ultraviolet and fluorescence detection in the RP-HPLC determination of dansylated biogenic amines in alcoholic beverages

Monaci L, Tantillo G, Palmisano F*// *Univ Bari, Dipt Chim, Via Orabona 4, IT-70126 Bari, Italy

Anal Bioanal Chem 2004 **378** (7) 1777

Determination of ochratoxin A in pig tissues by liquid-liquid extraction and clean-up and high-performance liquid chromatography

Omurtag GZ, Yazicioglu D// Marmara Univ, Fac Pharm, Dept Pharmaceut Toxicol, TR-34668 Istanbul, Turkey

J Food Prot 2004 **67** (8) 1782

Determination of fumonisins B₁ and B₂ in herbal tea and medicinal plants in Turkey by high-performance liquid chromatography

Stroka J, Dasko L, Spangenberg B, Anklam E// European Commiss Joint Res Ctr, Inst Reference Mat & Measurements, BE-2440 Geel, Belgium

J Liq Chromatogr Relat Technol 2004 **27** (13) 2101

Determination of the mycotoxin, sterigmatocystin, by thin-layer chromatography and reagent-free derivatisation

10. Additives

Baranowska I, Zydron M, Szczepanik K// Silesian Tech Univ, Dept Gen & Analyt Chem, 7 M Strzody St, PL-44100 Gliwice, Poland

J Planar Chromatogr Mod TLC 2004 **17** (1) 54

TLC in the analysis of food additives

Patsovskii AP, Rudometova NV, Kamentsev YS// All Russia Inst Food Flavors Acids & Dyes, Liteinyi pr 55, RU-191104 St Petersburg, Russia

J Anal Chem Engl Tr 2004 **59** (2) 150

Electrophoretic determination of synthetic dyes in alcoholic beverages

11. Flavours & aromas

Brudzewski K, Osowski S, Markiewicz T// Warsaw Univ Technol, Dept Chem, Noakowskiego 3, PL-00664 Warsaw, Poland

Sensor Actuator B Chem 2004 **98** (2-3) 291

Classification of milk by means of an electronic nose and SVM neural network

Garcia-Esteban M, Ansorena D, Astiasaran I, Martin D, Ruiz J*// *Univ Extremadura, Fac Vet, Campus Univ s/n, ES-10071 Caceres, Spain

J Sci Food Agric 2004 **84** (11) 1364

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Lammertyn J, Veraverbeke EA, Irudayaraj J*// *Penn State Univ, Dept Agr & Biol Engr, 227 Agr Engr Bldg, University Park, Pa 16802, USA
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Wine classification by taste sensors made from ultra-thin films and using neural networks

Yoo ZW, Kim NS, Lee DS*// *Seoul Womens Univ, Dept Chem, Seoul 139 774, South Korea
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Comparative analyses of the flavors from hallabong (*Citrus sphaerocarpa*) with lemon, orange and grapefruit by SPTE and HS-SPME combined with GC-MS

12. Organic acids

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Anal Lett 2004 **37** (9) 1823

Determination of malic acid in real samples by using enzyme immobilized reactors and amperometric detection

Nord LI, Vaag P, Duus JO*// *Carlsberg Lab, Gamle Carlsberg Vej 10, DK-2500 Copenhagen, Denmark
Anal Chem 2004 **76** (16) 4790

Quantification of organic and amino acids in beer by ¹H NMR spectroscopy

13. Animal products

Jensen PN, Christensen J, Engelsen SB*// *Royal Vet & Agr Univ, Dept Food Sci, Ctr Adv Food Studies, Rolighedsvej 30, DK-1958 Frederiksberg C, Denmark
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Oxidative changes in pork scratchings, peanuts, oatmeal and muesli viewed by fluorescence, near-infrared and infrared spectroscopy

Peter C, Brunen-Nieweler C, Cammann K, Borchers T*// *Inst Chemo & Biosensorik GmbH, Mendelstr 7, DE-48151 Munster, Germany
Eur Food Res Technol 2004 **219** (3) 286

Differentiation of animal species in food by oligonucleotide microarray hybridization

14. Plant & microbial products

Ammar H, Lopez S*, Gonzalez JS, Ranilla MJ// *Univ Leon, Dept Anim Prod, ES-24071 Leon, Spain
J Sci Food Agric 2004 **84** (11) 1349

Comparison between analytical methods and biological assays for the assessment of tannin-related antinutritive effects in some Spanish browse species

Bauer S, Schulte E*, Thier HP// *Univ Munster, Inst Food Chem, Corrensstr 45, DE-48149 Munster, Germany
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Composition of the surface wax from tomatoes - I. Identification of the components by GC/MS

Burns MJ, Valdivia H, Harris N// LGC Ltd, BioAnalyt Innovation Team, Queens Rd, Teddington TW11 0LY, England
Anal Bioanal Chem 2004 **378** (6) 1616

Analysis and interpretation of data from real-time PCR trace detection methods using quantitation of GM soya as a model system

Du QZ, Jerz G, Winterhalter P// Hangzhou Univ Commerce, Inst Food & Biol Engr, CN-310035 Hangzhou, Peoples Rep China
J Chromatogr A 2004 **1045** (1-2) 59

Isolation of two anthocyanin sambubiosides from bilberry (*Vaccinium myrtillus*) by high-speed counter-current chromatography

Fecka I, Kowalczyk A, Cisowski W// Wrocław Med Univ, Dept Pharmacognosy, Pl Nankiera 1, PL-50140 Wrocław, Poland
J Planar Chromatogr Mod TLC 2004 **17** (1) 22

Optimization of the separation of flavonoid glycosides and rosmarinic acid from *Mentha piperita* on HPTLC plates

Glynou K, Ioannou PC*, Christopoulos TK// *Univ Athens, Dept Chem, GR-15771 Athens, Greece
Anal Bioanal Chem 2004 **378** (7) 1748

Detection of transgenes in soybean via a polymerase chain reaction and a simple bioluminescent assay based on a universal aequorin-labeled oligonucleotide probe

Gryson N, Messens K, Dewettinck K// Hogesch Gent, Ctr Appl Res & Serv, Agrifing Biot, Voskenslaan 270, BE-9000 Ghent, Belgium
J Sci Food Agric 2004 **84** (11) 1357

Evaluation and optimisation of five different extraction methods for soy DNA in chocolate and biscuits. Extraction of DNA as a first step in GMO analysis

Janeczko Z, Krzek J, Pisulewska E, Sobolewska D, Dabrowska-Tylka M, Hubicka U, Podolak I// Jagiellonian Univ, Dept Pharmacognosy, Medyczna 9, PL-30688 Krakow, Poland
J Planar Chromatogr Mod TLC 2004 **17** (1) 32

Densitometric determination of genistin and daidzin in different cultivars of soy (*Glycine max*)

Kiraly-Veghely Z, Katay G, Tyihak E, Merillon JM// Minist Agr, Res Inst Viticulture & Enol, Malata u 4, HU-1105 Budapest, Hungary
J Planar Chromatogr Mod TLC 2004 **17** (1) 4

Separation of stilbene isomers from red wine by overpressured-layer chromatography

Minamisawa M, Yoshida S, Takai N// Tokyo Coll Medico-Pharmac Technol, 6-5-12 Higashikasai, Edogawa ku, Tokyo 134 8530, Japan
Anal Sci 2004 **20** (2) 325

Determination of biologically active substances in roasted coffees using a diode-array HPLC system

Mozetic B, Trebse P// Nova Gorica Polytech, Environm Res Lab, POB 301, SL-5001 Nova Gorica, Slovenia
Acta Chim Slov 2004 **51** (1) 151

Identification of sweet cherry anthocyanins and hydroxycinnamic acids using HPLC coupled with DAD and MS detector

Penza M, Cassano G// ENEA, CR Brindisi, Mat & New Technol Unit, SS-7 Appia km 714, IT-72100 Brindisi, Italy
Anal Chim Acta 2004 **509** (2) 159

Recognition of adulteration of Italian wines by thin-film multisensor array and artificial neural networks

Perez-Magarino S, Ortega-Heras M, Gonzalez-San Jose ML*, Boger Z// *Univ Burgos, Dept Biotechnol & Food Sci, Plaza Misael Banuelos s/n, ES-09001 Burgos, Spain
Talanta 2004 **62** (5) 983

Comparative study of artificial neural network and multivariate methods to classify Spanish DO rose wines

Pizarro C, Esteban-Diez I, Nistal AJ, Gonzalez-Saiz JM// Univ La Rioja, Dept Chem, C/ Madre de Dios, Logrono, La Rioja, Spain
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