



HPLC Electrochemical Detection Bibliography

References using the Thermo Scientific™ Dionex™ Coulochem™,
ECD-3000RS, or CoulArray™ Coulometric Electrochemical Detectors

Thermo
S C I E N T I F I C

Introduction

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EC-MS & Other
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Environmental

Food/Nutrition/
Natural Products

General

Metabolomics

Neuroscience

Oxidative
Metabolism

Pharmaceutical

Introduction

The technique of HPLC with electrochemical (EC) detection is both selective and sensitive, making it an ideal tool to measure low levels of analytes in complex matrices. Our EC detectors are extremely flexible and can be operated in a variety of unique modes, such as redox and screening, to increase detection capabilities. Selecting specific operating potentials can result in the selective detection of a compound from a multi-component mixture. Complex matrices can be directly analyzed using a multi-array approach.

Key to analytical performance and reliability is the sensor, the heart of the detector, where the analyte is measured. The coulometric sensor, unique to Thermo Fisher Scientific, offers superior performance, requires minimal maintenance and does not suffer from the typical issues affecting conventional EC sensors.

We make HPLC-EC detection as reliable and easy to use as HPLC-UV detection but with greater sensitivity, and unlike fluorescence detection, there is no need to worry about derivatization chemistries.

This bibliography is designed to readily show the analytical capabilities of LC electrochemical detection and highlights the breadth and scope of the different analytical methods found in the literature.

For ease of use, the document is divided into different categories based either on the relevant market (e.g., Clinical Research, Food/Nutrition/Natural Products, Pharmaceutical) being served or general field of use (e.g., Metabolomics, Neuroscience, Oxidative Metabolism). Also included is a section titled EC-MS and Other Novel Approaches which highlights the unique use of electrochemistry to study drug metabolism, drug bioactivation, drug stability, and the synthesis of drug metabolites and relative substances.

Each publication is hyperlinked so that users can obtain more information about the article, including analytes being measured and sample matrices.

Clinical Research

Title	Authors	Publication	Publication Date
Direct determination of tissue aminothiols, disulfide, and thioether levels using HPLC-ECD with a novel stable boron-doped diamond working electrode.	Bailey, B.; Waraska, J.; Acworth, I.	<i>Methods Mol. Biol.</i> (Totowa, NJ. U.S.) 594, 327–339.	2010
Unmetabolized serum folic acid and its relation to folic acid intake from diet and supplements in a nationally representative sample of adults aged ≥60 y in the United States.	Bailey R. L.; Mills, J. L.; Yetley, E. A.; Gahche, J. J.; Pfeiffer, C. M.; Dwyer, J. T.; Dodd, K. W.; Sempos, C. T.; Betz, J. M.; Picciano, M. F.	<i>Am. J. Clin. Nutr.</i> 92 (2), 383–389.	2010 Aug
Differential coulometric oxidation following post column-switching high pressure liquid chromatography for fluorescence measurement of unmetabolized folic acid in human plasma.	Bailey, S. W.; Ayling, J. E.	<i>J. Chromatogr., A</i> , 1315, 86–91.	2013 Nov 8
Application of high-performance liquid chromatography with amperometric and coulometric detection to the analysis of SZ1677, a new neuromuscular blocking agent, and its two derivatives.	Błazewicz, A.; Fijałek, Z.; Warowna-Grze kiewicz, M.; Banasiuk, J.	<i>J. Chromatogr., A</i> 1204 (1), 114–118	2008 Sep 12
Comparison of diagnostic accuracy of urinary free metanephrines, vanillyl mandelic acid, and catecholamines and plasma catecholamines for diagnosis of pheochromocytoma.	Boyle, J. G.; Davidson, D. F.; Perry, C. G.; Connell, J. M. C.	<i>J. Clin. Endocrinol. Metab.</i> 92 (12), 4602–4608.	2007 Dec
Efficient determination of purine metabolites in brain tissue and serum by high-performance liquid chromatography with electrochemical and UV detection.	Burdett, T. C.; Desjardins, C. A.; Logan, R.; McFarland, N. R.; Chen, X.; Schwarzschild, M. A.	<i>Biomed. Chromatogr.</i> 27 (1), 122–129.	2013 Jan
Supramolecular recognition of estrogens via molecularly imprinted polymers.	Buszewski, B.; Ricanyová, J.; Gadzała-Kopciuch, R.; Szumski, M.	<i>Anal. Bioanal. Chem.</i> 397 (7), 2977–2886.	2010 Aug
The plasma pharmacokinetics of R-(+)-lipoic acid administered as sodium R-(+)-lipoate to healthy human subjects.	Carlson, D. A.; Smith, A. R.; Fischer, S. J.; Young, K. L.; Packer, L.	<i>Altern. Med. Rev.</i> 12 (4), 343–351.	2007 Dec

Clinical Research

Title	Authors	Publication	Publication Date
Enhanced tumorigenesis in p53 knockout mice exposed in utero to high-dose vitamin E.	Chen, C. S.; Wells, P. G.	<i>Carcinogenesis</i> 27 (7), 1358–1368.	2006 Jul
Elevated levels of myeloperoxidase, white blood cell count and 3-chlorotyrosine in Taiwanese patients with acute myocardial infarction.	Cheng, M. L.; Chen, C. M.; Gu, P. W.; Ho, H. Y.; Chiu, D. T.	<i>Clin. Biochem.</i> 41 (7–8), 554–560.	2008 May
Determination of catechins and catechin gallates in tissues by liquid chromatography with coulometric array detection and selective solid phase extraction.	Chu, K. O.; Wang, C. C.; Chu, C. Y.; Rogers, M. S.; Choy, K. W.; Pang, C. P.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 810 (2), 187–195.	2004 Oct 25
Coenzyme Q 10 levels are low and associated with increased mortality in post-cardiac arrest patients.	Cocchi, M. N.; Giberson, B.; Berg, K.; Saliccioli, J. D.; Naini, A.; Buettner, C.; Akuthota, P.; Gautam, S.; Donnino, M. W.	<i>Resuscitation</i> 83 (8), 991–995.	2012 Aug
Human CD4+CD25+ regulatory T cells selectively express tyrosine hydroxylase and contain endogenous catecholamines subserving an autocrine/paracrine inhibitory functional loop.	Cosentino, M.; Fietta, A. M.; Ferrari, M.; Rasini, E.; Bombelli, R.; Carcano, E.; Saporiti, F.; Meloni, F.; Marino, F.; Lecchini, S.	<i>Blood</i> 109 (2), 632–642.	2007 Jan 15
An analysis of the biochemical diagnosis of 66 pheochromocytomas.	d'Herbomez, M.; Forzy, G.; Bauters, C.; Tierny, C.; Pigny, P.; Carnaille, B.; Pattou, F.; Wémeau, J.; Rouaix, N.	<i>Eur. J. Endocrinol.</i> 156 (5), 569–575.	2007 May
The effects of sapropterin on urinary monoamine metabolites in phenylketonuria	Douglas, T. D.; Jinnah, H. A.; Bernhard, D.; Singh, R. H.	<i>Mol. Genet. Metab.</i> 109 (3), 243–250.	2013 Jul
Platelet serotonin level predicts survival in amyotrophic lateral sclerosis.	Dupuis, L.; Spreux-Varoquaux, O.; Bensimon, G.; Jullien, P.; Lacomblez, L.; Salachas, F.; Bruneteau, G.; Pradat, P. F.; Loeffler, J. P.; Meininger, V.	<i>PLoS One</i> 5 (10), e13346.	2010 Oct 13

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Potential for cell-transplant therapy with human neuronal precursors to treat neuropathic pain in models of PNS and CNS injury: comparison of hNT2.17 and hNT2.19 cell lines.	Eaton, M. J.; Berrocal, Y.; Wolfe, S. Q.	<i>Pain Res. Treat.</i> 2012.	2012 Apr 24
Gluconeogenesis and hepatic glycogenolysis during exercise at the lactate threshold.	Emhoff, C. W.; Messonnier, L. A.; Horning, M. A.; Fattor, J. A.; Carlson, T. J.; Brooks, G. A.	<i>J. Appl. Physiol.</i> 114 (3), 297–306.	2013 Feb
Hemoglobin and plasma vitamin C levels in patients on peritoneal dialysis.	Finkelstein, F. O.; Juergensen, P.; Wang, S.; Santacroce, S.; Levine, M.; Kotanko, P.; Levin, N. W.; Handelsman, G. J.	<i>Peritoneal Dial. Int.</i> 31 (1), 74–79.	2011 Jan–Feb
Coenzyme Q10 in human blood: native levels and determinants of oxidation during processing and storage.	Franke, A. A.; Morrison, C. M.; Bakke, J. L.; Custer, L. J.; Li, X.; Cooney, R. V.	<i>Free Radical Biol. Med.</i> 48 (12), 1610–1617.	2010 Jun 15
Simultaneous analysis of circulating 25-hydroxy-vitamin D3, 25-hydroxy-vitamin D2, retinol, tocopherols, carotenoids, and oxidized and reduced coenzyme Q10 by high performance liquid chromatography with photo diode-array detection using C18 and C30 columns alone or in combination	Franke, A. A.; Morrison, C. M.; Custer, L. J.; Li, X.; Lai, J. F.	<i>J. Chromatogr., A</i> 1301, 1–9.	2013 Aug 2
Effect of a plant sterol, fish oil and B vitamin combination on cardiovascular risk factors in hypercholesterolemic children and adolescents: a pilot study.	Garaiova, I.; Muchová, J.; Nagyová, Z.; Mišlanová, C.; Oravec, S.; Dukát, A.; Wang, D.; Plummer, S. F.; Ďuračková, Z.	<i>Nutr. J.</i> 12, 7.	2013 Jan
Determination of catecholamines in plasma and urine.	Grouzmann, E.; Lamine, F.	<i>Best Pract. Res., Clin. Endocrinol. Metab.</i> 27 (5), 713–723.	2013 Oct

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Monoamine oxidase A down-regulation contributes to high metanephrine concentration in pheochromocytoma.	Grouzmann, E.; Matter, M.; Bilz, S.; Herren, A.; Triponez, F.; Henzen, C.; Kim, K.; Zulewski, H.; Buclin, T.; Brakch, N.; Abid, K.	<i>J. Clin. Endocrinol. Metab.</i> 97 (8), 2773–2781.	2012 Aug
Pharmacokinetics and physiological effects of two intravenous infusion rates of morphine in conscious dogs.	Guedes, A. G.; Papich, M. G.; Rude, E. P.; Rider, M. A.	<i>J. Vet. Pharmacol. Ther.</i> 30 (3), 224–233.	2007 Jun
Clinical utility of monoamine neurotransmitter metabolite analysis in cerebrospinal fluid.	Hyland, K.	<i>Clin. Chem. (Washington, DC, U.S.)</i> 54 (4), 633–641.	2008 Apr
Evidence of choline depletion and reduced betaine and dimethylglycine with increased homocysteine in plasma of children with cystic fibrosis.	Innis, S. M.; Hasman, D.	<i>J. Nutr.</i> 136 (8), 2226–2231.	2006 Aug
Fatty acid reesterification but not oxidation is increased by oral contraceptive use in women.	Jacobs, K. A.; Casazza, G. A.; Suh, S. H.; Horning, M. A.; Brooks, G. A.	<i>J. Appl. Physiol.</i> 98 (5), 1720–1731.	2005 May
Electrochemical characterization of repaglinide and its determination in human plasma using liquid chromatography with dual-channel coulometric detection.	Jirovský, D.; Bartošová, Z.; Skopalová, J.; Maier, V.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 878 (31), 3243–3248.	2010 Dec 1
The use of experimental design in the development of an HPLC-ECD method for the analysis of captopril.	Khamanga, S. M.; Walker, R. B.	<i>Talanta</i> 83 (3), 1037–1049.	2011 Jan 15
Vitamin K concentrations in the maternal milk of Japanese women.	Kojima, T.; Asoh, M.; Yamawaki, N.; Kanno, T.; Hasegawa, H.; Yonekubo, A.	<i>Acta Paediatr.</i> 93 (4), 457–463.	2004 Apr
Pharmacokinetics of morphine and plasma concentrations of morphine-6-glucuronide following morphine administration to dogs.	KuKanich, B.; Lascelles, B. D.; Papich, M. G.	<i>J. Vet. Pharmacol. Ther.</i> 28 (4), 371–376.	2005 Aug

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Vitamin C in mouse and human red blood cells: an HPLC assay.	Li, H.; Tu, H.; Wang, Y.; Levine, M.	<i>Anal. Biochem.</i> 426 (2), 109–117.	2012 Jul 15
Determination of olanzapine and N-desmethyl-olanzapine in plasma using a reversed-phase HPLC coupled with coulochemical detection: correlation of olanzapine or N-desmethyl-olanzapine concentration with metabolic parameters.	Lu, M. L.; Lin, C. H.; Chen, Y. C.; Yang, H. C.; Wu, T. H.	<i>PLoS One</i> 8 (5), e65719.	2013 May 31
Interferences by anti-TB drugs in a validated HPLC assay for urinary catecholamines and their successful removal.	Manickum, T.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 873 (1), 124–128.	2008 Sep 15
Simultaneous analysis of neuroendocrine tumor markers by HPLC-electrochemical detection.	Manickum, T.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 877 (32), 4140–4146.	2009 Dec 15
Comparison of gas chromatography-mass spectrometry and high-performance liquid chromatography with coulometric electrode array detection for determination of alkylresorcinol metabolites in human urine.	Marklund, M.; Landberg, R.; Åman, P.; Kamal-Eldin, A.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 879 (9–10), 647–651.	2011 Mar 15
The influence of tobacco smoking on homocysteine and glutathione levels in biological samples.	Marszałł, M.; Makarowski, R.; Czarnowski, W.	<i>Przegl Lek. (Polish)</i> 63 (10), 948–950.	2006
Application of the high-performance liquid chromatography method with coulometric detection for determination of vitamin B(6) in human plasma and serum.	Marszałł, M. L.; Lebedzińska, A.; Czarnowski, W.; Makarowski, R.; Kłós, M.; Szefer, P.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> , 877 (27), 3151–3158.	2009 Oct 1

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Circulating unmetabolized folic acid and 5-methyltetrahydrofolate in relation to anemia, macrocytosis, and cognitive test performance in American seniors.	Morris, M. S.; Jacques, P. F.; Rosenberg, I. H.; Selhub, J.	<i>Am. J. Clin. Nutr.</i> 91 (6), 1733–1744.	2010 Jun
Homocysteine, folate and vitamin B(12) in puerperal cerebral venous thrombosis.	Nagaraja, D.; Noone, M. L.; Bharatkumar, V. P.; Christopher, R.	<i>J. Neurol. Sci.</i> 272 (1–2), 43–47.	2008 Sep 15
Sexual dimorphism of the intracellular heat shock protein 72 response.	Nickerson, M.; Kennedy, S. L.; Johnson, J. D.; Fleshner, M.	<i>J. Appl. Physiol.</i> 101 (2), 566–575.	2006 Aug
High-performance liquid chromatography and coulometric electrode array detector in serum 25-hydroxyvitamin D(3) and 25-hydroxyvitamin D(2) analyses.	Nurmi, T.; Tuomainen, T. P.; Virtanen, J.; Mursu, J.; Voutilainen, S.	<i>Anal. Biochem.</i> 435 (1), 1–9.	2013 Apr 1
Poor vitamin C status is associated with increased carotid intima-media thickness, decreased microvascular function, and delayed myocardial repolarization in young patients with type 1 diabetes.	Odermarsky, M.; Lykkesfeldt, J.; Liuba, P.	<i>Am. J. Clin. Nutr.</i> 90 (2), 447–452	2009 Aug
Inherent properties of adenylosuccinate lyase could explain S-Ado/SAICAr ratio due to homozygous R426H and R303C mutations.	Ray, S. P.; Duval, N.; Wilkinson, T. G., II; Shaheen, S. E.; Ghosh, K.; Patterson, D.	<i>Biochim. Biophys. Acta, Proteins Proteomics</i> 1834 (8), 1545–1553.	2013 Aug
Joint fluid antioxidants are decreased in osteoarthritic joints compared to joints with macroscopically intact cartilage and subacute injury.	Regan, E. A.; Bowler, R. P.; Crapo, J. D.	<i>Osteoarthr. Cartil.</i> 16 (4), 515–521.	2008 Apr
A study on the stability of urinary free catecholamines and free methyl-derivatives at different pH, temperature and time of storage.	Roberts, N. B.; Higgins, G.; Sargazi, M.	<i>Clin. Chem. Lab. Med.</i> 48 (1), 81–87.	2010
Plasma cysteine/cystine reduction potential correlates with plasma creatinine levels in chronic kidney disease.	Rodrigues, S. D.; Batista, G. B.; Ingberman, M.; Pecoits-Filho, R.; Nakao, L. S.	<i>Blood Purif.</i> 34 (3–4), 231–237.	2012

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Evaluation of GSH adducts of adrenaline in biological samples.	Silva, R.; Boldt, S.; Costa, V. M.; Carmo, H.; Carvalho, M.; Carvalho, F.; Bastos, Mde. L.; Lemos-Amado, F.; Remião, F.	<i>Biomed. Chromatogr.</i> 21 (7), 670–679.	2007 Jul
Simultaneous liquid chromatographic analysis of catecholamines and 4-hydroxy-3-methoxyphenylethylene glycol in human plasma. Comparison of amperometric and coulometric detection.	Sabbioni, C.; Saracino, M. A.; Mandrioli, R.; Pinzauti, S.; Furlanetto, S.; Gerra, G.; Raggi, M. A.	<i>J. Chromatogr., A</i> 1032 (1–2), 65–71.	2004 Apr 2
Determination of selected phenothiazines in human plasma by solid-phase extraction and liquid chromatography with coulometric detection.	Saracino, M. A.; Amore, M.; Baioni, E.; Petio, C.; Raggi, M. A.	<i>Anal. Chim. Acta</i> 624 (2), 308–316.	2008 Aug 29
Analysis of risperidone and its metabolite in plasma and saliva by LC with coulometric detection and a novel MEPS procedure.	Saracino, M. A.; de Palma, A.; Boncompagni, G.; Raggi, M. A.	<i>Talanta</i> 81 (4–5), 1547–1553.	2010 Jun 15
Determination of Olanzapine in rat brain using liquid chromatography with coulometric detection and a rapid solid-phase extraction procedure.	Saracino, M. A.; Gandolfi, O.; Dall'olio, R.; Albers, L.; Kenndler, E.; Raggi, M. A.	<i>J. Chromatogr., A</i> 1122 (1–2), 21–27.	2006 Jul 28
Chromatographic analysis of serotonin, 5-hydroxyindolacetic acid and homovanillic acid in dried blood spots and platelet poor and rich plasma samples.	Saracino, M. A.; Gerra, G.; Somaini, L.; Colombati, M.; Raggi, M. A.	<i>J. Chromatogr., A</i> 1217 (29), 4808–4814.	2010 Jul 16
Simultaneous high-performance liquid chromatographic determination of olanzapine and lamotrigine in plasma of bipolar patients.	Saracino, M. A.; Koukopoulos, A.; Sani, G.; Amore, M.; Raggi, M. A.	<i>Ther. Drug Monit.</i> 29 (6), 773–780.	2007 Dec
Rapid assays of clozapine and its metabolites in dried blood spots by liquid chromatography and microextraction by packed sorbent procedure.	Saracino, M. A.; Lazzara, G.; Prugnoli, B.; Raggi, M. A.	<i>J. Chromatogr., A</i> 1218 (16), 2153–2159.	2011 Apr 22

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Determination of homovanillic acid (HVA) in human plasma by HPLC with coulometric detection and a new SPE procedure.	Saracino, M. A.; Mandrioli, R.; Mercolini, L.; Ferranti, A.; Zaimovic, A.; Leonardi, C.; Raggi, M. A.	<i>J. Pharm. Biomed. Anal.</i> 42 (1), 107–112.	2006 Sep 11
A novel test using dried blood spots for the chromatographic assay of methadone.	Saracino, M. A.; Marcheselli, C.; Somaini, L.; Pieri, M. C.; Gerra, G.; Ferranti, A.; Raggi, M. A.	<i>Anal. Bioanal. Chem.</i> 404 (2), 503–511.	2012 Aug
Development of a 6-hydroxychroman-based derivatization reagent: application to the analysis of 5-hydroxytryptamine and catecholamines by using high-performance liquid chromatography with electrochemical detection.	Sasaki, T.; Fukushima, T.; Ohishi, M.; Toyo'oka, T.	<i>Biomed. Chromatogr.</i> 22 (8), 888–899.	2008 Aug
Combined liquid chromatography-coulometric detection and microextraction by packed sorbent for the plasma analysis of long acting opioids in heroin addicted patients.	Somaini, L.; Saracino, M. A.; Marcheselli, C.; Zanchini, S.; Gerra, G.; Raggi, M. A.	<i>Anal. Chim. Acta</i> 702 (2), 280–287.	2011 Sep 30
14 nights of intermittent hypoxia elevate daytime blood pressure and sympathetic activity in healthy humans.	Tamisier, R.; Pépin, J. L.; Rémy, J.; Baguet, J. P.; Taylor, J. A.; Weiss, J. W.; Lévy, P.	<i>Eur. Respir. J.</i> 37 (1), 119–128.	2011 Jan
The role of de novo catecholamine synthesis in mediating methylmercury-induced vesicular dopamine release from rat pheochromocytoma (PC12) cells.	Tiernan, C. T.; Edwin, E. A.; Goudreau, J. L.; Atchison, W. D.; Lookingland, K. J.	<i>Toxicol. Sci.</i> 133 (1), 125–132.	2013 May
Assay of olanzapine in human plasma by a rapid and sensitive gas chromatography-nitrogen phosphorus selective detection (GC-NPD) method: validation and comparison with high-performance liquid chromatography-coulometric detection.	Ulrich, S.	<i>Ther. Drug Monit.</i> 27 (4), 463–468.	2005 Aug

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Novel and sensitive high-performance liquid chromatographic method based on electrochemical coulometric array detection for simultaneous determination of catecholamines, kynurenine and indole derivatives of tryptophan.	Vaarmann, A.; Kask, A.; Mäeorg, U.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 769 (1), 145–153.	2002 Mar 25
Systematic study of long-term stability of 3,4-dihydroxyphenylglycol in plasma for subsequent determination with liquid chromatography.	Venneri, M. G.; Del Rio, G.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 802 (2), 247–255.	2004 Apr 5
Impact of interferon alpha immunotherapy on tryptophan metabolism in patients with chronic hepatitis C. Results of a pilot studies on ten patients.	Vignau, J.; Costisella, O.; Canva, V.; Imbenotte, M.; Duhamel, A.; Lhermitte, M.	<i>Encephale (French)</i> 35 (5), 477–483.	2009 Oct
Vitamin A metabolism is impaired in human ovarian cancer.	Williams, S. J.; Cvetkovic, D.; Hamilton, T. C.	<i>Gynecol. Oncol.</i> 112 (3), 637–645.	2009 Mar
Human endothelial dihydrofolate reductase low activity limits vascular tetrahydrobiopterin recycling.	Whitsett, J.; Rangel, F. A.; Sethumadhavan, S.; Celinska, J.; Widlansky, M.; Vasquez-Vivar, J.	<i>Free Radical Biol. Med.</i> 63, 143–150.	2013 Oct
Validated method for the determination of hydroquinone in human urine by high-performance liquid chromatography-coulometric-array detection.	Wittig, J.; Wittemer, S.; Veit, M.	<i>J. Chromatogr., B: Biomed. Sci. Appl.</i> 761 (1), 125–132.	2001 Sep 15
Depressive symptoms and oxidative DNA damage in Japanese municipal employees.	Yi, S.; Nanri, A.; Matsushita, Y.; Kasai, H.; Kawai, K.; Mizoue, T.	<i>Psychiatry Res.</i> 200 (2–3), 318–322.	2012 Dec
Ubiquinol-10/lipids ratios in consecutive patients with different angiographic findings.	Záková, P.; Kand'ár, R.; Skarydová, L.; Skalický, J.; Myjavec, A.; Vojtisek, P.	<i>Clin. Chim. Acta</i> 380 (1–2), 133–138.	2007 May 1
Association between a SLC23A2 gene variation, plasma vitamin C levels, and risk of glaucoma in a Mediterranean population.	Zanon-Moreno, V.; Ciancotti-Olivares, L.; Asencio, J.; Sanz, P.; Ortega-Azorin, C.; Pinazo-Duran, M. D.; Corella, D.	<i>Mol. Vision</i> 17, 2997–3004.	2011 Nov 17

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Comparing the ESA HPLC total homocysteine assay with electrochemical detection to the CDC in-house HPLC assay with fluorescence detection.	Zhang, M.; Pfeiffer, C. M.	<i>Clin. Chim. Acta</i> 340 (1–2), 195–200.	2004 Feb
Determination of residual clenbuterol in pork meat and liver by HPLC with electrochemical detection.	Zhang, X. Z.; Gan, Y. R.; Zhao, F. N.	<i>Yaoxue Xuebao</i> 39 (4), 276–280.	2004 Apr
Determination of salbutamol in human plasma and urine by high-performance liquid chromatography with a coulometric electrode array system.	Zhang, X. Z.; Gan, Y. R.; Zhao, F. N.	<i>J. Chromatogr. Sci.</i> 42 (5), 263–267.	2004 May–Jun
Determination of tetracyclines in ovine milk by high-performance liquid chromatography with a coulometric electrode array system.	Zhao, F.; Zhang, X.; Gan, Y.	<i>J. Chromatogr., A</i> 1055 (1–2), 109–14.	2004 Nov 5

Electrochemistry-Mass Spectrometry and Other Novel Approaches

Title	Authors	Publication	Publication Date
Online electrochemistry/mass spectrometry in drug metabolism studies: principles and applications.	Baumann, A.; Karst, U.	<i>Expert Opin. Drug Metab. Toxicol.</i> 6 (6), 715–731.	2010 Jun
Voltammetry coupled to mass spectrometry in the presence of isotope 18O labeled water for the prediction of oxidative transformation pathways of activated aromatic ethers: acebutolol.	Bussy, U.; Tea, I.; Ferchaud-Roucher, V.; Krempf, M.; Silvestre, V.; Galland, N.; Jacquemin, D.; Andresen-Bergström, M.; Jurva, U.; Boujtita, M.	<i>Anal. Chim. Acta</i> 762 , 39–46.	2013 Jan 31
Electrochemical mass spectrometric studies on 1-cyclopropyl-4-phenyl-1,2,3,6-tetrahydropyridine.	Castagnoli, N.; Bissel, P.; Jurva, U.; Ashraf-Khorasani, M.	<i>Rapid Commun. Mass Spectrom.</i> 22 (13), 2089–2096.	2008 Jul
Catecholamine-producing cells in the synovial tissue during arthritis: modulation of sympathetic neurotransmitters as new therapeutic target.	Capellino, S.; Cosentino, M.; Wolff, C.; Schmidt, M.; Grifka, J.; Straub, R. H.	<i>Ann. Rheum. Dis.</i> 69 (10), 1853–1860.	2010 Oct
Fast liquid chromatography-electrochemistry-mass spectrometry of ferrocenecarboxylic acid esters.	Diehl, G.; Karst, U.	<i>J. Chromatogr., A</i> 974 (1–2), 103–109.	2002 Oct 18
Novel metabolites of amodiaquine formed by CYP1A1 and CYP1B1: structure elucidation using electrochemistry, mass spectrometry, and NMR.	Johansson, T.; Jurva, U.; Grönberg, G.; Weidolf, L.; Masimirembwa, C.	<i>Drug Metab. Dispos.</i> 37 (3), 571–579.	2009 Mar
Mimicry of phase I drug metabolism—novel methods for metabolite characterization and synthesis.	Johansson, T.; Weidolf, L.; Jurva, U.	<i>Rapid Commun. Mass Spectrom.</i> 21 (14), 2323–2331.	2007
Model electrochemical-mass spectrometric studies of the cytochrome P450-catalyzed oxidations of cyclic tertiary allylamines.	Jurva, U.; Bissel, P.; Isin, E. M.; Igarashi, K.; Kuttub, S.; Castagnoli, N., Jr.	<i>J. Am. Chem. Soc.</i> 127 (35), 12368–12377.	2005 Sep 7
Electrochemical generation of electrophilic drug metabolites: characterization of amodiaquine quinoneimine and cysteinyl conjugates by MS, IR, and NMR.	Jurva, U.; Holmén, A.; Grönberg, G.; Masimirembwa, C.; Weidolf, L.	<i>Chem. Res. Toxicol.</i> 21 (4), 928–935.	2008 Apr

Electrochemistry-Mass Spectrometry and Other Novel Approaches

Title	Authors	Publication	Publication Date
Electrochemically assisted Fenton reaction: reaction of hydroxyl radicals with xenobiotics followed by on-line analysis with high-performance liquid chromatography/tandem mass spectrometry.	Jurva, U.; Wikström, H. V.; Bruins, A. P.	<i>Rapid Commun. Mass Spectrom.</i> 16 (20), 1934–1940.	2002
In vitro mimicry of metabolic oxidation reactions by electrochemistry/mass spectrometry.	Jurva, U.; Wikström, H. V.; Bruins, A. P.	<i>Rapid Commun. Mass Spectrom.</i> 14 (6), 529–533.	2000
Comparison between electrochemistry/mass spectrometry and cytochrome P450 catalyzed oxidation reactions.	Jurva, U.; Wikström, H. V.; Weidolf, L.; Bruins, A. P.	<i>Rapid Commun. Mass Spectrom.</i> 17 (8), 800–810.	2003
Study and application of a controlled-potential electrochemistry-electrospray emitter for electrospray mass spectrometry.	Kertesz, V.; Van Berkel, G. J.; Granger, M. C.	<i>Anal. Chem.</i> 77 4366–4373.	2005 Jul 15
Electrochemical oxidation of troglitazone: identification and characterization of the major reactive metabolite in liver microsomes.	Madsen, K. G.; Grönberg, G.; Skonberg, C.; Jurva, U.; Hansen, S. H.; Olsen, J.	<i>Chem. Res. Toxicol.</i> 21 (10), 2035-2041.	2008 Oct
Development and evaluation of an electrochemical method for studying reactive phase-I metabolites: correlation to in vitro drug metabolism.	Madsen, K. G.; Olsen, J.; Skonberg, C.; Hansen, S. H.; Jurva, U.	<i>Chem. Res. Toxicol.</i> 20 (5), 821–831.	2007 May
Bioactivation of diclofenac in vitro and in vivo: correlation to electrochemical studies.	Madsen, K. G.; Skonberg, C.; Jurva, U.; Cornett, C.; Hansen, S. H.; Johansen, T. N.; Olsen J.	<i>Chem. Res. Toxicol.</i> 21 (5), 1107–1119.	2008 May
P450-catalyzed vs. electrochemical oxidation of haloperidol studied by ultra-performance liquid chromatography/electrospray ionization mass spectrometry.	Mali'n, T. J.; Weidolf, L.; Castagnoli, N., Jr.; Jurva, U.	<i>Rapid Commun. Mass Spectrom.</i> 24 (9), 1231–1240.	2010 May 15

Electrochemistry-Mass Spectrometry and Other Novel Approaches

Title	Authors	Publication	Publication Date
Electrochemical oxidation and cleavage of peptides analyzed with on-line mass spectrometric detection.	Permentier, H. P.; Jurva, U.; Barroso, B.; Bruins, A. P.	<i>Rapid Commun. Mass Spectrom.</i> 17 (14), 1585–1592.	2003
Successful preparation of metabolite of troglitazone by in-flow electrochemical reaction on coulometric electrode.	Tahara, K.; Yano, Y.; Kanagawa, K.; Abe, Y.; Yamada, J.; Iijima, S.; Mochizuki, M.; Nishikawa, T.	<i>Chem. Pharm. Bull. (Tokyo)</i> 55 (8), 1207–1212.	2007 Aug
Quantitation of parent drug and its unstable metabolites by in situ coulometric oxidation and liquid chromatography-tandem mass spectrometry.	Tong, W.; Chowdhury, S. K.; Su, A. D.; Alton, K. B.	<i>Anal. Chem.</i> 82 (24), 10251–10257.	2010 Dec 15
Controlling analyte electrochemistry in an electrospray ion source with a three-electrode emitter cell.	Van Berkel, G. J.; Asano, K. G.; Granger, M. C.	<i>Anal. Chem.</i> 76 (5), 1493–1499.	2004 Mar 1
Efficient analyte oxidation in an electrospray ion source using a porous flow-through electrode emitter.	Van Berkel, G. J.; Kertesz, V.; Ford, M. J.; Granger, M. C.	<i>J. Am. Soc. Mass Spectrom.</i> 15 (12), 1755–1766.	2004 Dec

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Title	Authors	Publication	Publication Date
Environmental contaminants and redox status of coenzyme Q10 and vitamin E in Inuit from Nunavik.	Bélanger, M. C.; Mirault, M. É.; Dewailly, E.; Berthiaume, L.; Julien, P.	<i>Metab., Clin. Exp.</i> 57 (7), 927–933.	2008 Jul
Seasonal mercury exposure and oxidant-antioxidant status of James Bay sport fishermen.	Bélanger, M. C.; Mirault, M. É.; Dewailly, E.; Plante, M.; Berthiaume, L.; Noël, M.; Julien, P.	<i>Metab., Clin. Exp.</i> 57 (5), 630–636.	2008 May
Bisphenol A exposure reduces the estradiol response to gonadotropin stimulation during in vitro fertilization.	Bloom, M. S.; Kim, D.; vom Saal, F. S.; Taylor, J. A.; Cheng, G.; Lamb, J. D.; Fujimoto, V. Y.	<i>Fertil. Steril.</i> 96 (3), 672–677.	2011 Sep
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DNA methylation changes in whole blood is associated with exposure to the environmental contaminants, mercury, lead, cadmium and bisphenol A, in women undergoing ovarian stimulation for IVF.	Hanna, C. W.; Bloom, M. S.; Robinson, W. P.; Kim, D.; Parsons, P. J.; vom Saal, F. S.; Taylor, J. A.; Steuerwald, A. J.; Fujimoto, V. Y.	<i>Hum. Reprod.</i> 27 (5), 1401–1410.	2012 May
Determination of bisphenol A in human serum by high-performance liquid chromatography with multi-electrode electrochemical detection.	Inoue, K.; Kato, K.; Yoshimura, Y.; Makino, T.; Nakazawa, H.	<i>J. Chromatogr., B: Biomed. Sci. Appl.</i> 749 (1), 17–23.	2000 Nov 10
Migration of 4-nonylphenol from polyvinyl chloride food packaging films into food simulants and foods.	Inoue, K.; Kondo, S.; Yoshie, Y.; Kato, K.; Yoshimura, Y.; Horie, M.; Nakazawa, H.	<i>Food Addit. Contam.</i> 18 (2), 157–164.	2001 Feb

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Title	Authors	Publication	Publication Date
Determination of 4-nonylphenol and 4-octylphenol in human blood samples by high-performance liquid chromatography with multi-electrode electrochemical coulometric-array detection.	Inoue, K.; Yoshimura, Y.; Makino, T.; Nakazawa, H.	<i>Analyst (Cambridge, U.K.)</i> 125 (11), 1959–1961.	2000 Nov
Determination of atmospheric hydroxyl radical by HPLC coupled with electrochemical detection.	Liu, B.; Wang, H. X.	<i>J. Environ. Sci. (Beijing, China)</i> 20 (1), 28–32.	2008
Exposure to polycyclic aromatic hydrocarbons, arsenic and environmental tobacco smoke, nutrient intake, and oxidative stress in Japanese preschool children.	Mori, T.; Yoshinaga, J.; Suzuki, K.; Mizoi, M.; Adachi, S.; Tao, H.; Nakazato, T.; Li, Y.; Kawai, K.; Kasai, H.	<i>Sci. Total Environ.</i> 409 (15), 2881–2887.	2011 Jul
Isolation and determination of estrogens in water samples by solid-phase extraction using molecularly imprinted polymers and HPLC.	Sadowski, R.; Gadzała-Kopciuch, R.	<i>J. Sep. Sci.</i> 36 (14), 2299–2305.	2013 Jul

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Title	Authors	Publication	Publication Date
Characterization of phenolic compounds in strawberry (<i>Fragaria x ananassa</i>) fruits by different HPLC detectors and contribution of individual compounds to total antioxidant capacity.	Aaby, K.; Ekeberg, D.; Skrede, G.	<i>J. Agric. Food Chem.</i> 55 (11), 4395–4406.	2007 May 30
Analysis of flavonoids and other phenolic compounds using high-performance liquid chromatography with coulometric array detection: relationship to antioxidant activity.	Aaby, K.; Hvattum, E.; Skrede, G.	<i>J. Agric. Food Chem.</i> 52 (15), 4595–4603.	2004 Jul 28
Antioxidant, α-amylase inhibitory and oxidative DNA damage protective property of <i>Boerhaavia diffusa</i> (Linn.) root.	Akhter, F.; Hashim, A.; Khan, M. S.; Ahmad, S.; Iqbal, D.; Srivastava, A. K.; Siddiqui, M. H.	<i>S. Afr. J. Bot.</i> 88 , 265–272.	2013 Sep
Antioxidant activity and metabolite profile of quercetin in vitamin-E-depleted rats.	Ameho, C. K.; Chen, C. Y. O.; Smith, D.; Sánchez-Moreno, C.; Milbury, P. E.; Blumberg, J. B.	<i>J. Nutr. Biochem.</i> 19 (7), p.467–474.	2008 Jul
Evaluation of tolerable levels of dietary quercetin for exerting its antioxidative effect in high cholesterol-fed rats.	Azuma, K.; Ippoushi, K.; Terao, J.	<i>Food Chem. Toxicol.</i> 48 (4), 1117–1122.	2010 Apr
Comprehensive analysis of polyphenols in 55 extra virgin olive oils by HPLC-ECD and their correlation with antioxidant activities.	Bayram, B.; Esatbeyoglu, T.; Schulze, N.; Ozcelik, B.; Frank, J.; Rimbach, G.	<i>Plant Foods Hum. Nutr. (N. Y., NY, U.S.)</i> 67 (4), 326–336.	2012 Dec
Hydrogen sulfide mediates the vasoactivity of garlic.	Benavides, G. A.; Squadrito, G. L.; Mills, R. W.; Patel, H. D.; Isbell, T. S.; Patel, R. P.; Darley-Usmar, V. M.; Doeller, J. E.; Kraus, D. W.	<i>Proc. Natl. Acad. Sci. U.S.A.</i> 104 (46), 17977–17982.	2007 Nov
Analysis of selected stilbenes in <i>Polygonum cuspidatum</i> by HPLC coupled with CoulArray detection.	Benová, B.; Adam, M.; Onderková, K.; Královský, J.; Krajčec, M.	<i>J. Sep. Sci.</i> 31 (13), 2404–2409.	2008 Jul
Rapid and complete extraction of phenols from olive oil and determination by means of a coulometric electrode array system.	Brenes, M.; García, A.; García, P.; Garrido, A.	<i>J. Agric. Food Chem.</i> 48 (11), 5178–5183.	2000 Nov

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Title	Authors	Publication	Publication Date
Carotenoid bioavailability is higher from salads ingested with full-fat than with fat-reduced salad dressings as measured with electrochemical detection.	Brown, M. J.; Ferruzzi, M. G.; Nguyen, M. L.; Cooper, D. A.; Eldridge, A. L.; Schwartz, S. J.; White, W. S.	<i>Am. J. Clin. Nutr.</i> 80 (2), 396–403.	2004 Aug
Naringenin from cooked tomato paste is bioavailable in men.	Bugianesi, R.; Catasta, G.; Spigno, P.; D'Uva, A.; Maiani, G.	<i>J. Nutr.</i> 132 (11), 3349–3352.	2002 Nov
Human skeletal muscle ascorbate is highly responsive to changes in vitamin C intake and plasma concentrations.	Carr, A. C.; Bozonet, S. M.; Pullar, J. M.; Simcock, J. W.; Vissers, M. C.	<i>Am. J. Clin. Nutr.</i> 97 (4), 800–807.	2013 Apr
Flavonoids from almond skins are bioavailable and act synergistically with vitamins C and E to enhance hamster and human LDL resistance to oxidation.	Chen, C.; Milbury, P. E.; Lapsley, K.; Blumberg, J. B.	<i>J. Nutr.</i> 135 (6), 1366–1373.	2005 Jun 1
CoulArray electrochemical evaluation of tocopherol and tocotrienol isomers in barley, oat and spelt grains.	Colombo, M. L.; Marangon, K.; Bugatti, C.	<i>Nat. Prod. Commun.</i> 4 (2), 251–254.	2009 Feb
Composition and stability of phytochemicals in five varieties of black soybeans (<i>Glycine max</i>).	Correa, C. R.; Li, L.; Aldini, G.; Carini, M.; Oliver Chen, C. Y.; Chun, H.; Cho, S.; Park, K.; Russell, R. M.; Blumberg, J. B.; Yeum, K.	<i>Food Chem.</i> 123 (4), 1176–1184.	2010 Dec 15
Effect of UV-B light and different cutting styles on antioxidant enhancement of commercial fresh-cut carrot products.	Du, W.; Avena-Bustillos, R. J.; Breksa, A. P., III.; McHugh, T. H.	<i>Food Chem.</i> 134 (4), 1862–1869.	2012 Oct 15
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alpha-Lipoic acid in dietary supplements: development and comparison of HPLC-CEAD and HPLC-ESI-MS methods.	Durrani, A. I.; Schwartz, H.; Schmid, W.; Sontag, G.	<i>J. Pharm. Biomed. Anal.</i> 45 (4), 694–699.	2007 Nov 30

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Title	Authors	Publication	Publication Date
Analysis of lycopene geometrical isomers in biological microsamples by liquid chromatography with coulometric array detection.	Ferruzzi, M. G.; Nguyen, M. L.; Sander, L. C.; Rock, C. L.; Schwartz, S. J.	<i>J. Chromatogr., B: Biomed. Sci. Appl.</i> 760 (2), 289–299.	2001 Sep 5
Determination of heterocyclic aromatic amines in beef extract, cooked meat and rat urine by liquid chromatography with coulometric electrode array detection.	Gerbl, U.; Cichna, M.; Zsivkovits, M.; Knasmüller, S.; Sontag, G.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 802 (1), 107–113.	2004 Mar 25
Determination of macrolide antibiotics in porcine and bovine urine by high-performance liquid chromatography coupled to coulometric detection.	González de la Huebra, M. J.; Vincent, U.; Bordin, G.; Rodríguez, A. R.	<i>Anal. Bioanal. Chem.</i> 382 (2), 433–439.	2005 May
Total reducing capacity of fresh sweet peppers and five different Italian pepper recipes.	Greco, L.; Riccio, R.; Bergero, S.; Del Re, A. A. M.; Trevisan, M.	<i>Food Chem.</i> 103 (4), 1127–1133.	2007 Jan
Urinary 3-(3,5-dihydroxyphenyl)-1-propanoic acid, an alkylresorcinol metabolite, is a potential biomarker of whole-grain intake in a U.S. population.	Guyman, L. A.; Adlercreutz, H.; Koskela, A.; Li, L.; Beresford, S. A.; Lampe, J. W.	<i>J. Nutr.</i> 138 (10), 1957–1962.	2008 Oct
Multidimensional LC x LC analysis of phenolic and flavone natural antioxidants with UV-electrochemical coulometric and MS detection.	Hájek, T.; Skeríková, V.; Cesla, P.; Vynuchalová, K.; Jandera, P.	<i>J. Sep. Sci.</i> 31 (19), 3309–3328.	2008 Oct
Determination of the urinary aglycone metabolites of vitamin K by HPLC with redox-mode electrochemical detection.	Harrington, D. J.; Soper, R.; Edwards, C.; Savidge, G. F.; Hodges, S. J.; Shearer, M. J.	<i>J. Lipid Res.</i> 46 (5), 1053–1060.	2005 May
Bioavailability and antioxidant effect of epigallocatechin gallate administered in purified form versus as green tea extract in healthy individuals.	Henning, S. M.; Niu, Y.; Liu, Y.; Lee, N. H.; Hara, Y.; Thames, G. D.; Minutti, R. R.; Carpenter, C. L.; Wang, H.; Heber, D.	<i>J. Nutr. Biochem.</i> 16 (10), 610–616.	2005 Oct
Procyanidin dimer B2 [epicatechin-(4beta-8)-epicatechin] in human plasma after the consumption of a flavanol-rich cocoa.	Holt, R. R.; Lazarus, S. A.; Sullards, M. C.; Zhu, Q. Y.; Schramm, D. D.; Hammerstone, J. F.; Fraga, C. G.; Schmitz, H. H.; Keen, C. L.	<i>Am. J. Clin. Nutr.</i> 76 (4), 798–804.	2002 Oct

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Title	Authors	Publication	Publication Date
Effects of natural (RRR α-tocopherol acetate) or synthetic (all-rac α-tocopherol acetate) vitamin E supplementation on reproductive efficiency in beef cows.	Horn, M.; Gunn, P.; Van Emon, M.; Lemenager, R.; Burgess, J.; Pyatt, N. A.; Lake, S. L.	<i>J. Anim. Sci. (Savoy, IL, U.S.)</i> 88 (9), 3121–3127.	2010 Sep
RP-HPLC analysis of phenolic compounds and flavonoids in beverages and plant extracts using a CoulArray detector.	Jandera, P.; Skeifíková, V.; Rehová, L.; Hájek, T.; Baldriánová, L.; Skopová, G.; Kellner, V.; Horna, A.	<i>J. Sep. Sci.</i> 28 (9–10), 1005–1022.	2005 Jun
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HPLC analysis of rosmarinic acid in feed enriched with aerial parts of <i>Prunella vulgaris</i> and its metabolites in pig plasma using dual-channel coulometric detection.	Jirovský, D.; Kosina, P.; Myslíňová, M.; Stýskala, J.; Ulrichová, J.; Simánek V.	<i>J. Agric. Food Chem.</i> 55 (19), 7631–7637.	2007 Sep 19
Molar absorptivities and reducing capacity of pyranoanthocyanins and other anthocyanins.	Jordheim, M.; Aaby, K.; Fossen, T.; Skrede, G.; Andersen, Ø. M.	<i>J. Agric. Food Chem.</i> 55 (26), 10591–10598.	2007 Dec 26
Sensitive electrochemical detection method for alpha-acids, beta-acids and xanthohumol in hops (<i>Humulus lupulus</i> L.).	Kac, J.; Vovk, T.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 850 (1–2), 531–537.	2007 May 1
Determination of phenolic compounds and hydroxymethylfurfural in meads using high performance liquid chromatography with coulometric-array and UV detection.	Kahoun, D.; Rezková, S.; Veskrnová, K.; Královský, J.; Holcapek, M.	<i>J. Chromatogr., A</i> 1202 (1), 19–33.	2008 Aug 15

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Title	Authors	Publication	Publication Date
Antioxidant-rich food intakes and their association with blood total antioxidant status and vitamin C and E levels in community-dwelling seniors from the Quebec longitudinal study NuAge.	Khalil, A.; Gaudreau, P.; Cherki, M.; Wagner, R.; Tessier, D. M.; Fulop, T.; Shatenstein, B.	<i>Exp. Gerontol.</i> 46 (6), 475–481.	2011 Jun
Transepithelial transport of microbial metabolites of quercetin in intestinal Caco-2 cell monolayers.	Konishi, Y.	<i>J. Agric. Food Chem.</i> 53 (3), 601–607.	2005 Feb 9
Absorption and bioavailability of artemisinin in rats after oral administration.	Konishi, Y.; Hitomi, Y.; Yoshida, M.; Yoshioka, E.	<i>J. Agric. Food Chem.</i> 53 (26), 9928–9933.	2005 Dec 28
Pharmacokinetic study of caffeic and rosmarinic acids in rats after oral administration.	Konishi, Y.; Hitomi, Y.; Yoshida, M.; Yoshioka, E.	<i>J. Agric. Food Chem.</i> 53 (12), 4740–4746.	2005 Jun 15
Intestinal absorption of p-coumaric and gallic acids in rats after oral administration.	Konishi, Y.; Hitomi, Y.; Yoshioka, E.	<i>J. Agric. Food Chem.</i> 52 (9), 2527–2532.	2004 May 5
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Effects of various doses of selenite on stinging nettle (<i>Urtica dioica</i> L.).	Krystofova, O.; Adam, V.; Babula, P.; Zehnalek, J.; Beklova, M.; Havel, L.; Kizek, R.	<i>Int. J. Environ. Res. Public Health</i> 7 (10), 3804–3815.	2010 Oct
Biofortified cassava increases β-carotene and vitamin A concentrations in the TAG-rich plasma layer of American women.	La Frano, M. R.; Woodhouse, L. R.; Burnett, D. J.; Burri, B. J.	<i>Br. J. Nutr.</i> 110 (2), 310–320.	2013 Jul 28
Chlorogenic acid is absorbed in its intact form in the stomach of rats.	Lafay, S.; Gil-Izquierdo, A.; Manach, C.; Morand, C.; Besson, C.; Scalbert, A.	<i>J. Nutr.</i> 136 (5), 1192–1197.	2006 May
Determination of 4-ethylcatechol in wine by high-performance liquid chromatography-coulometric electrochemical array detection.	Larcher, R.; Nicolini, G.; Bertoldi, D.; Nardin, T.	<i>Anal. Chim. Acta</i> 609 (2), 235–240.	2008 Feb 25

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Title	Authors	Publication	Publication Date
Determination of volatile phenols in wine using high-performance liquid chromatography with a coulometric array detector.	Larcher, R.; Nicolini, G.; Puecher, C.; Bertoldi, D.; Moser, S.; Favaro, G.	<i>Anal. Chim. Acta</i> 582 (1), 55–60.	2007 Jan 16
Acute, quercetin-induced reductions in blood pressure in hypertensive individuals are not secondary to lower plasma angiotensin-converting enzyme activity or endothelin-1: nitric oxide.	Larson, A.; Witman, M. A. H.; Guo, Y.; Ives, S.; Richardson, R. S.; Bruno, R. S.; Jalili, T.; Symons, J. D.	<i>Nutr. Res. (N. Y., NY, U.S.)</i> 32 (8), 557–564.	2012 Aug
High-performance liquid chromatography method for the determination of folic acid in fortified food products.	Lebiedzińska, A.; Dąbrowska, M.; Szefer, P.; Marszałł M.	<i>Toxicol. Mech. Methods</i> 18 (6), 463–467.	2008 Jul
Reversed-phase high-performance liquid chromatography method with coulometric electrochemical and ultraviolet detection for the quantification of vitamins B(1) (thiamine), B(6) (pyridoxamine, pyridoxal and pyridoxine) and B(12) in animal and plant foods.	Lebiedzińska, A.; Marszałł, M. L.; Kuta, J.; Szefer, P.	<i>J. Chromatogr., A</i> 1173 (1–2), 71–80.	2007 Nov 30
An improved method for the determination of green and black tea polyphenols in biomatrices by high-performance liquid chromatography with coulometric array detection.	Lee, M. J.; Prabhu, S.; Meng, X.; Li, C.; Yang, C. S.	<i>Anal. Biochem.</i> 279 (2), 164–169.	2000 Mar 15
Characterisation, extraction efficiency, stability and antioxidant activity of phytonutrients in <i>Angelica keiskei</i>.	Li, L.; Aldini, G.; Carini, M.; Chen, C. Y. O.; Chun, H.; Cho, S.; Park, K.; Correa, C. R.; Russell, R. M.; Blumberg, J. B.; Yeum, K.	<i>Food Chem.</i> 115 (1), 227–232.	2009 Jul
Vitamin A equivalence of the β-carotene in β-carotene-biofortified maize porridge consumed by women.	Li, S.; Nugroho, A.; Rocheford, T.; White, W. S.	<i>Am. J. Clin. Nutr.</i> 92 (5), 1105–1112.	2010 Nov
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Determination of four water-soluble compounds in <i>Salvia miltiorrhiza</i> Bunge by high-performance liquid chromatography with a coulometric electrode array system.	Ma, L.; Zhang, X.; Guo, H.; Gan, Y.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 833 (2), 260–263.	2006 Apr 3
Effect of green tea powder (<i>Camellia sinensis</i> L. cv. <i>Benifuuki</i>) particle size on O-methylated EGCG absorption in rats. The Kakegawa Study.	Maeda-Yamamoto, M.; Ema, K.; Tokuda, Y.; Monobe, M.; Tachibana, H.; Sameshima, Y.; Kuriyama, S.	<i>Cytotechnology</i> 63 (2), 171–179.	2011 Mar
Supplementation of a γ-tocopherol-rich mixture of tocopherols in healthy men protects against vascular endothelial dysfunction induced by postprandial hyperglycemia.	Mah, E.; Noh, S. K.; Ballard, K. D.; Park, H. J.; Volek, J. S.; Bruno, R. S.	<i>J. Nutr. Biochem.</i> 24 (1), 196–203.	2013 Jan
Mediterranean diet reduces endothelial damage and improves the regenerative capacity of endothelium.	Marin, C.; Ramirez, R.; Delgado-Lista, J.; Yubero-Serrano, E. M.; Perez-Martinez, P.; Carracedo, J.; Garcia-Rios, A.; Rodriguez, F.; Gutierrez-Mariscal, F. M.; Gomez, P.; Perez-Jimenez, F.; Lopez-Miranda, J.	<i>Am. J. Clin. Nutr.</i> 93 (2), 267–274.	2011 Feb
Sensitive high-performance liquid chromatographic method using coulometric electrode array detection for measurement of phytoestrogens in dried blood spots.	Melby, M. K.; Watanabe, S.; Whitten, P. L.; Worthman, C. M.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 826 (1–2), 81–90.	2005 Nov 5
Phenolic acids from beer are absorbed and extensively metabolized in humans.	Nardini, M.; Natella, F.; Scaccini, C.; Ghiselli, A.	<i>J. Nutr. Biochem.</i> 17 (1), 14–22.	2006 Jan
Physicochemical effect of pH and antioxidants on mono- and triglutamate forms of 5-methyltetrahydrofolate, and evaluation of vitamin stability in human gastric juice: Implications for folate bioavailability.	Ng, X.; Lucock, M.; Veysey, M.	<i>Food Chem.</i> 106 (1), 200–210.	2008 Jan

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No effect on adenoma formation in Min mice after moderate amount of flaxseed.	Oikarinen, S.; Heinonen, S. M.; Nurmi, T.; Adlercreutz, H.; Mutanen, M.	<i>Eur. J. Nutr.</i> 44 (5), 273–280.	2005 Aug
Measurement of isoflavones using liquid chromatography with multi-channel coulometric electrochemical detection.	Ouchi, K.; Gamache, P.; Acworth, I.; Watanabe, S.	<i>BioFactors.</i> 22 (1–4), 353–356.	2004
Quantitation of clovamide-type phenylpropenoic acid amides in cells and plasma using high-performance liquid chromatography with a coulometric electrochemical detector.	Park, J. B.	<i>J. Agric. Food Chem.</i> 53 (21), 8135–8140.	2005 Oct 19
Synthesis, HPLC measurement and bioavailability of the phenolic amide amkamide.	Park, J. B.	<i>J. Chromatogr. Sci.</i> [Epub ahead of print].	2013 May 27
Synthesis of safflomid and its HPLC measurement in mouse plasma after oral administration.	Park, J. B.; Chen, P.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 852 (1–2), 398–402.	2007 Jun 1
Determination of lignans in human plasma by liquid chromatography with coulometric electrode array detection.	Peñalvo, J. L.; Nurmi, T.; Haajanen, K.; Al-Maharik, N.; Botting, N.; Adlercreutz, H.	<i>Anal. Biochem.</i> 332 (2), 384–393.	2004 Sep 15
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Title	Authors	Publication	Publication Date
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Determination of secoisolariciresinol, lariciresinol and isolariciresinol in plant foods by high performance liquid chromatography coupled with coulometric electrode array detection.	Schwartz, H.; Sontag, G.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 838 (2), 78–85.	2006 Jul 11
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Recent developments in electrochemical flow detections—A review: Part II. Liquid chromatography	Trojanowicz, M.	<i>Anal. Chim. Acta</i> 688 (1), 8–35.	2011 Feb 28

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Altered interactions of tryptophan metabolites in first-episode neuroleptic-naive patients with schizophrenia.	Yao, J. K.; Dougherty, G. G., Jr.; Reddy, R. D.; Keshavan, M. S.; Montrose, D. M.; Matson, W. R.; Rozen, S.; Krishnan, R. R.; McEvoy, J.; Kaddurah-Daouk, R.	<i>Mol. Psychiatry</i> 15 (9), 938–953.	2010 Sep

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Increased vulnerability of <i>parkin</i> knock down PC12 cells to hydrogen peroxide toxicity: The role of salsolinol and NM-salsolinol.	Su, Y.; Duan, J.; Ying, Z.; Hou, Y.; Zhang, Y.; Wang, R.; Deng, Y.	<i>Neuroscience (Amsterdam, Neth.)</i> 233, 72–85.	2013 Mar
Modulation of β-adrenergic receptors in the ventromedial hypothalamus influences counterregulatory responses to hypoglycemia.	Szepietowska, B.; Zhu, W.; Chan, O.; Horblitt, A.; Dziura, J.; Sherwin, R. S.	<i>Diabetes</i> 60 (12), 3154–3158.	2011 Dec
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Postnatal aversive experience impairs sensitivity to natural rewards and increases susceptibility to negative events in adult life.	Ventura, R.; Coccorello, R.; Andolina, D.; Latagliata, E. C.; Zanettini, C.; Lampis, V.; Battaglia, M.; D'Amato, F. R.; Moles, A.	<i>Cereb. Cortex</i> 23 (7), 1606–1617.	2013 Jul
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Functional convergence of dopaminergic and cholinergic input is critical for hippocampus-dependent working memory.	Wisman, L. A. B.; Sahin, G.; Maingay, M.; Leanza, G.; Kirik, D.	<i>J. Neurosci.</i> 28 (31), 7797–7807.	2008 Jul 30
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Lowering effects of onion intake on oxidative stress biomarkers in streptozotocin-induced diabetic rats.	Azuma, K.; Minami, Y.; Ippoushi, K.; Terao, J.	<i>J. Clin. Biochem. Nutr.</i> 40 (2), 131–140.	2007 Mar
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Metabolism of 3-nitrotyrosine induces apoptotic death in dopaminergic cells.	Blanchard-Fillion, B.; Prou, D.; Polydoro, M.; Spielberg, D.; Tsika, E.; Wang, Z.; Hazen, S. L.; Koval, M.; Przedborski, S.; Ischiropoulos, H.	<i>J. Neurosci.</i> 26 (23), 6124–6130.	2006 Jun 7
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Method development and validation for monitoring in vivo oxidative stress: evaluation of lipid peroxidation and fat-soluble vitamin status by HPLC in rat plasma.	Hermans, N.; Cos, P.; Berghe, D. V.; Vlietinck, A. J.; de Bruyne, T.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 822 (1–2), 33–39.	2005 Aug 5
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Muscle choline kinase beta defect causes mitochondrial dysfunction and increased mitophagy.	Mitsuhashi, S.; Hatakeyama, H.; Karahashi, M.; Koumura, T.; Nonaka, I.; Hayashi, Y. K.; Noguchi, S.; Sher, R. B.; Nakagawa, Y.; Manfredi, G.; Goto, Y.; Cox, G. A.; Nishino, I.	<i>Hum. Mol. Genet.</i> 20 (19), 3841–3851.	2011 Oct 1
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Measurement of sulfur-containing compounds involved in the metabolism and transport of cysteamine and cystamine. Regional differences in cerebral metabolism.	Pinto, J. T.; Khomenko, T.; Szabo, S.; McLaren, G. D.; Denton, T. T.; Krasnikov, B. F.; Jeitner, T. M.; Cooper, A. J.	<i>J. Chromatogr., B: Anal. Technol. Biomed. Life Sci.</i> 877 (28), 3434–3441.	2009 Oct 15
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Effect of N-acetyl cysteine on oxidative DNA damage and the frequency of DNA deletions in atm-deficient mice.	Reliene, R.; Fischer, E.; Schiestl, R. H.	<i>Cancer Res.</i> 64 (15), 5148–5153.	2004 Aug 1
Glutathione depletion by buthionine sulfoximine induces DNA deletions in mice.	Reliene, R.; Schiestl, R. H.	<i>Carcinogenesis</i> 27 (2), 240–244.	2006 Feb
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Application of HPLC with electrochemical detection for the determination of low levels of antioxidants.	Škrinjar, M.; Kolar, M. H.; Jelšek, N.; Hraš, A. R.; Bezjak, M.; Knez, Ž.	<i>J. Food Compos. Anal.</i> 20 (7), 539-545.	2007 Nov
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