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# Current awareness in labelled compounds and radiopharmaceuticals

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### I Radionuclide production

Daraban L, Abbas K\*, Simonelli F, Adam-Rebeles R, Gibson N// \*European Commission, Joint Res Ctr, Inst Hlth & Consumer Protection, Via E Fermi 1, IT-21020 Ispra, Italy

*Appl Radiat Isot* 2008 **66** (2) 261-264

Experimental study of excitation functions for the deuteron induced reactions  $^{64}\text{Zn}(d,2p)^{64}\text{Cu}$  and  $^{64}\text{Zn}(d,\alpha n)^{61}\text{Cu}$  using the stacked-foil technique

Fujibayashi Y, Suzuki K, Fukumura T, Mori T, Kasamatsu S// Fukui Univ, Biomed Imaging Res Ctr, 23-3 Shimoaizuki, Fukui 910 1193, Japan

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 140-144

Non-standard radionuclide production for PET in Japan (Review)

Hohn A, Zimmermann K, Schaub E, Hirzel W, Schubiger PA, Schibli R\*// \*Paul Scherrer Institute, Ctr Radiopharmaceut Sci, CH-5232 Villigen, Switzerland

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 145-150

Production and separation of "non-standard" PET nuclides at a large cyclotron facility: The experiences at the Paul Scherrer Institute in Switzerland (Review)

Jurisson S, Cutler C, Smith SV\*// \*Australian Nucl Sci & Technol Org, Inst Materials Engn, ARC Ctr Excellence Anti-Matter Matter Studies, Menai, NSW 2234, Australia

*Q J Nucl Med Mol Imaging* 2008 **52** (3) 222-234

Radiometal complexes: characterization and relevant *in vitro* studies (Review)

Nickles RJ, Avila-Rodriguez MA, Nye JA, Houser EN, Selwyn RG, Schueller MJ, Christian BT, Jensen M// Univ Wisconsin, Sch Med & Publ Hlth, Dept Med Phys, 1300 University Ave, Madison, WI 53706, USA

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 134-139

Sustainable production of orphan radionuclides at Wisconsin (Review)

Tang L// Washington Univ Sch Med, Mallinckrodt Inst Radiol, 510 Sth Kingshighway Blvd, Campus Box 8225, St Louis, Mo 63110, USA

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 121-133

Radionuclide production and yields at Washington University School of Medicine (Review)

### 2 Labelled compound synthesis

Allard M, Fouquet E, James D, Szlosek-Pinaud M\*// \*Univ Bordeaux 1, Institute Mol Sci, CNRS UMR 5255, 351 Cours Liberation, FR-33405 Talence, France

*Curr Med Chem* 2008 **15** (3) 235-277

State of art in  $^{11}\text{C}$  labelled radiotracers synthesis (Review)

Bois F, Baldwin RM, Amici L, Al-Tikriti MS, Kula N, Baldessarini R, Innis RB, Staley JK, Tamagnan GD\*// \*Yale University School Medicine, VA Connecticut Health Care System 116A2, West Haven, Connecticut 06516, USA

*Nucl Med Biol* 2008 **35** (1) 53-59

Synthesis, radiolabeling and baboon SPECT imaging of 2 $\beta$ -carbomethoxy-3 $\beta$ -(3'-[ $^{123}\text{I}$ ]iodophenyl)tropane ([ $^{123}\text{I}$ ]YYP256) as a serotonin transporter radiotracer

Boldt KG, Brine GA, Rehder K\*// \*RTI Int, Ctr Organ & Med Chem, Res Triangle Park, NC 27709, USA

*Org Prep Procedure Int* 2008 **40** (4) 379-384

Synthesis of (+)-9-*O*-desmethyl- $\alpha$ -dihydrotetraabenazine, precursor for the high affinity VMAT2 imaging PET radioligand [ $^{11}\text{C}$ ]-(+)- $\alpha$ -dihydrotetraabenazine

Briard E, Zoghbi SS, Imaizumi M, Gourley JP, Shetty HU, Hong J, Cropley V, Fujita M, Innis RB, Pike VW\*// \*Nat Inst Hlth/Nat Inst Ment Hlth, Mol Imaging Branch, Bldg 10, Rm B3 C346A, 10 Ctr Dr, Bethesda, Md 20892, USA

*J Med Chem* 2008 **51** (1) 17-30

Synthesis and evaluation in monkey of two sensitive  $^{11}\text{C}$ -labeled aryloxyanilide ligands for imaging brain peripheral benzodiazepine receptors *in vivo*

Cai LS, Liow JS, Zoghbi SS, Cuevas J, Baetas C, Hong J, Shetty HU, Seneca NM, Brown AK, Gladding R, Temme SS, Herman MM, Innis RB, Pike VW// National Inst Hlth/National Institute Mental Health, Molecular Imaging Branch, 10 Center Drive, Building 10, Room B3 C346, Bethesda, Md 20892, USA

*J Med Chem* 2008 **51** (1) 148-158

Synthesis and evaluation of *N*-methyl and *S*-methyl  $^{11}\text{C}$ -labeled 6-methylthio-2-(4'-*N,N*-dimethylamino)phenylimidazo[1,2-*a*]pyridines as radioligands for imaging beta-amyloid plaques in Alzheimer's disease

Carreira RJ, Rial-Otero R, Lopez-Ferrer D, Lodeiro C, Capelo JL\*// \*Univ Nova Lisboa, Fac Ciencias & Technol, Dept Quim, REQUIMTE, PT-2829-516 Monte de Caparica, Portugal

*Talanta* 2008 **76** (2) 400-406

Ultrasonic energy as a new tool for fast isotopic  $^{18}\text{O}$  labeling of proteins for mass spectrometry-based techniques: Preliminary results

Celen S, Deroose C, De Groot T, Chitneni SK, Gijssbers R, Debysers Z, Mortelmans L, Verbruggen A, Bormans G\*// \*Katholieke Univ Leuven, Onderwijs & Navorsing 2, Lab Radiopharm, Herestraat 49, Bus 821, BE-3000 Louvain, Belgium

*Bioconjug Chem* 2008 **19** (2) 441-449

Synthesis and evaluation of  $^{18}\text{F}$ - and  $^{11}\text{C}$ -labeled phenyl-galactopyranosides as potential probes for *in vivo* visualization of LacZ gene expression using positron emission tomography

In order to keep subscribers up-to-date with the latest developments in their field, John Wiley & Sons are providing a current awareness service in each second issue of the journal. The bibliography contains newly published material in the field of labelled compounds and radiopharmaceuticals. Each bibliography is divided into 16 sections: 1 Radionuclide production; 2 Labelled compound synthesis; Applications: 3 Biomedical - General; 4 Imaging - General; 5 Fluorine; 6 Carbon; 7 Technetium; 8 Iodine; 9 Copper; 10 Gallium; 11 Indium; 12 Hydrogen; 13 Others; 14 Therapy; 15 Environmental; 16 Analytical techniques. Within each section, articles are listed in alphabetical order with respect to author. If, in the preceding period, no publications are located relevant to any one of these headings, that section will be omitted. Unless indicated by an asterisk, the first author is for correspondence.

- Chen XJ, Yu PR, Zhang LF, Liu B\*// \*Beijing Normal Univ, Coll Chem, MoE Key Lab Radiopharmaceut, CN-100875 Beijing, Peoples Rep China  
*Bioorg Med Chem Lett* 2008 **18** (4) 1442-1445  
Synthesis and biological evaluation of  $^{99m}\text{Tc}$ , Re-monoamine-monoamide conjugated to 2-(4-aminophenyl) benzothiazole as potential probes for  $\beta$ -amyloid plaques in the brain
- Chin FT, Namavari M, Levi J, Subbarayan M, Ray P, Chen XY, Gambhir SS\*// \*Stanford Univ Sch Med, Dept Radiol & Bioengn, MIPS, Bio-X Program, Stanford, Ca 94305, USA  
*Mol Imaging Biol* 2008 **10** (2) 82-91  
Semiautomated radiosynthesis and biological evaluation of [ $^{18}\text{F}$ ]FEAU: A novel PET imaging agent for *HSV1-tk/sr39tk* reporter gene expression
- Chitneni SK, Garreau L, Cleynhens B, Evens N, Bex M, Vermaelen P, Chalou S, Busson R, Guilloteau D, Van Laere K, Verbruggen A, Bormans G\*// \*KU Leuven, Lab Radiopharm, Herestr 49, BE-3000 Louvain, Belgium  
*Nucl Med Biol* 2008 **35** (1) 75-82  
Improved synthesis and metabolic stability analysis of the dopamine transporter ligand [ $^{18}\text{F}$ ] FECT
- Franchini L, Panza L, Kongmanas K, Tanphaichitr N, Faull KF, Ronchetti F// Univ Milan, Dipt Chim Biochim & Biotechnol Med, Via Saldini 50, IT-20133 Milan, Italy  
*Chem Phys Lipids* 2008 **152** (2) 78-85  
An efficient and convenient synthesis of deuterium-labelled seminolipid isotopomers and their ESI-MS characterization
- Gao M, Wang M, Zheng QH\*// \*Indiana Univ Sch Med, Dept Radiol, 1345 West 16th St, Indianapolis, In 46202, USA  
*Appl Radiat Isot* 2008 **66** (2) 194-202  
Synthesis of carbon-11 labeled 1-(3,4-dimethoxybenzyl)-2,2-dimethyl-1,2,3,4-tetrahydroisoquinolinium derivatives as new potential PET SKCa channel imaging agents
- Gao M, Wang M, Mock BH, Miller KD, Sledge GW, Hutchins GD, Zheng QH\*// \*Address as above  
*Appl Radiat Isot* 2008 **66** (4) 523-529  
Synthesis of new carbon-11 labeled cyclofenil derivatives for PET imaging of breast cancer estrogen receptors
- Garg S, Lynch AJH, Doke AK, Minton RC, Garg PK\*// \*Wake Forest Univ Hlth Sci, Dept Radiol Sci, PET Ctr, Med Ctr Blvd, Winston Salem, NC 27157, USA  
*Appl Radiat Isot* 2008 **66** (5) 612-618  
A remote controlled system for the preparation of  $7\alpha$ -[ $^{18}\text{F}$ ]fluoro-17 $\alpha$ -methyl 5 $\alpha$ -dihydrotestosterone ([ $^{18}\text{F}$ ]FMDHT) using microwave
- Glaser M, Morrison M, Solbakken M, Arukwe J, Karlens H, Wiggen U, Champion S, Kindberg GM, Cuthbertson A\*// \*GE Healthcare MDX Discovery Res, Nycoveien 2, NO-0401 Oslo, Norway  
*Bioconjug Chem* 2008 **19** (4) 951-957  
Radiosynthesis and biodistribution of cyclic RGD peptides conjugated with novel [ $^{18}\text{F}$ ]fluorinated aldehyde-containing prosthetic groups
- Guo HX, Zhang J, Ma ZW, Wang ZB// Beijing Normal Univ, Dept Chem, MoE Key Lab Radiopharmaceut, CN-100875 Beijing, Peoples Rep China  
*J Radioanal Nucl Chem* 2008 **275** (1) 121-123  
Synthesis and biodistribution of  $^{99m}\text{Tc}$ -isopentyl xanthate as a potential myocardial perfusion imaging agent
- Hoepping A, Diekers M, Deuther-Conrad W, Scheunemann M, Fischer S, Hiller A, Wegner F, Steinbach J, Brust P// ABX Advanced Biochemical Compounds GmbH, H Glaser Str 10-14, DE-01454 Radeberg, Germany  
*Bioorg Med Chem* 2008 **16** (3) 1184-1194  
Synthesis of fluorine substituted pyrazolopyrimidines as potential leads for the development of PET-imaging agents for the GABA<sub>A</sub> receptors
- Hooker JM, O'Neil JP, Romanini DW, Taylor SE, Francis MB\*// \*Univ Calif Berkeley, Dept Chem, Berkeley, Ca 94720, USA  
*Mol Imaging Biol* 2008 **10** (4) 182-191  
Genome-free viral capsids as carriers for positron emission tomography radiolabels
- Israel I, Brandau W, Farmakis G, Samnick S\*// \*Univ Saarland Med Ctr, Dept Nucl Med, DE-66421 Homburg, Germany  
*Appl Radiat Isot* 2008 **66** (4) 513-522  
Improved synthesis of no-carrier-added *p*-[ $^{124}\text{I}$ ]iodo-L-phenylalanine and *p*-[ $^{131}\text{I}$ ]iodo-L-phenylalanine for nuclear medicine applications in malignant gliomas
- Kerseman K, Bauwens M, Mertens J// Vrije Univ Brussels, BEFY, BE-1090 Brussels, Belgium  
*Nucl Med Biol* 2008 **35** (4) 425-432  
Method for stabilizing non carrier added 2-[ $^{18}\text{F}$ ]fluoromethyl-L-phenylalanine, a new tumour tracer, during radiosynthesis and radiopharmaceutical formulation
- Krug B, Van Zanten A, Pirson AS, Crott R, Borghat TV// Catholic Univ Louvain, Div Nucl Med, Mont Godinne Med Ctr, 1 Dr Therasse, BE-5530 Yvoir, Belgium  
*Eur J Nucl Med Mol Imaging* 2008 **35** (1) 80-88  
Activity-based costing evaluation of [ $^{18}\text{F}$ ]fludeoxyglucose production
- Lane SR, Veerendra B, Rold TL, Sieckman GL, Hoffman TJ, Jurisson SS, Smith CJ\*// \*Harry S Truman Memorial VA Hosp, Columbia, Mo 65201, USA  
*Nucl Med Biol* 2008 **35** (3) 263-272  
 $^{99m}\text{Tc}(\text{CO})_2$ -DTMA bombesin conjugates having high affinity for the GRP receptor
- Lee JH, Byeon SR, Lim SJ, Oh SJ, Moon DH, Yoo KH, Chung BY, Kim DJ\*// \*Korea Inst Sci & Technol, Ctr Cheminform Res, POB 131, Seoul 130 650, South Korea  
*Bioorg Med Chem Lett* 2008 **18** (4) 1534-1537  
Synthesis and evaluation of stilbenylbenzoxazole and stilbenylbenzothiazole derivatives for detecting  $\beta$ -amyloid fibrils
- Muftuler FZB, Unak P, Teksoz S, Acar C, Yolcular S, Yurekli Y// Ege Univ, Inst Nucl Sci, Dept Nucl Applicat, Izmir, Turkey  
*Appl Radiat Isot* 2008 **66** (2) 178-187  
 $^{131}\text{I}$  labeling of tamoxifen and biodistribution studies in rats
- Namavari M, Padilla de Jesus O, Cheng Z, De A, Kovacs E, Levi J, Zhang R, Hoerner JK, Grade H, Syud FA, Gambhir SS\*// \*Stanford Univ, Dept Radiol, MIPS, Bio-X Program, Clark Ctr, 318 Campus Dr East 150, Stanford, Ca 94305, USA  
*Mol Imaging Biol* 2008 **10** (4) 177-181  
Direct site-specific radiolabeling of an Affibody protein with 4-[ $^{18}\text{F}$ ]fluorobenzaldehyde via oxime chemistry
- Park JH, Kim SW\*, Yang SD, Hur MG, Chun KS, Yu KH// \*Korea Atomic Energy Res Inst, Radiat Res Ctr Ind & Environm, Jeonbuk 580 185, South Korea  
*Bull Korean Chem* 2008 **29** (3) 595-598  
Synthesis and evaluation of 2-[ $^{125}\text{I}$ ]iodoemodin for a potential breast cancer imaging agent
- Patel P, Jones P, Handy R, Harrington C, Marshall P, Evans EH\*// \*Univ Plymouth, Sch Earth Ocean & Environm Sci, Special & Environm Anal Res Grp, Drake Circus, Plymouth PL4 8AA, England  
*Anal Bioanal Chem* 2008 **390** (1) 61-65  
Isotopic labelling of peptides and isotope ratio analysis using LC-ICP-MS: A preliminary study
- Satpati D, Bapat K, Sarma HD, Kothari K, Venkatesh M, Banerjee S\*// \*Bhabha Atom Res Ctr, Radiopharmaceut Div, IN-400085 Mumbai, India  
*Cancer Biother Radiopharm* 2008 **23** (1) 34-42  
Synthesis of  $^{99m}\text{Tc}$ -nitrido heterocomplex of piperidine and *in vitro* and *in vivo* evaluation of its affinity for  $\sigma$  receptors
- Shanab K, Wadsak W, Mien LK, Mitterhauser M, Holzer W, Polster V, Viernstein H, Spreitzer H// Univ Vienna, Dept Drug & Nat Prod Synth, Althanstr 14, AT-1090 Vienna, Austria  
*Heterocycles* 2008 **75** (2) 339-356  
Synthesis of *in vivo* metabolites of the new adenosine A<sub>3</sub> receptor PET-radiotracer [ $^{18}\text{F}$ ] FE@SUPPY
- Shokeen M, Fettig NM, Rossin R\*// \*Philips Res Labs, High Tech Campus 11, NL-5656 AE Eindhoven, The Netherlands  
*Q J Nucl Med Mol Imaging* 2008 **52** (3) 267-277  
Synthesis, *in vitro* and *in vivo* evaluation of radiolabeled nanoparticles (Review)
- Sobal G, Menzel EJ, Sinzinger H// Med Univ Vienna, Dept Nucl Med, Wahringer Gurtel 18-20, AT-1090 Vienna, Austria  
*Appl Radiat Isot* 2008 **66** (4) 415-420  
Radiolabeling procedure, quality control and stability of  $^{99m}\text{Tc}$ -labeled chondroitin sulfate: A new approach of targeting osteoarthritis
- Svecova H, Kleinova V, Siefert D, Chaloupkova H, Baurle J, Kranda K, Kral V, Fiser M// Acad Sci Czech Republic, Inst Nucl Phys, CZ-25068 Rez, Czech Republic  
*Appl Radiat Isot* 2008 **66** (3) 310-316  
Radioiodination of mouse anti-III  $\beta$ -tubulin antibodies and their evaluation with respect to their use as diagnostic agents for peripheral neuropathies
- Tietze R, Loeber S, Hubner H, Gmeiner P, Kuwert T, Prante O\*// \*Clin Nucl Med, Laboratory Mol Imaging, Schwabachanlage 6, DE-91054 Erlangen, Germany  
*Bioorg Med Chem Lett* 2008 **18** (3) 983-988  
Discovery of a dopamine D<sub>2</sub> selective PET ligand candidate taking advantage of a click chemistry based REM linker
- Van Waarde A, Doorduyn J, De Jong JR, Dierckx RA, Elsinga PH// University Groningen Med Ctr, Hanzeplein 1, NL-9713 GZ Groningen, The Netherlands  
*Neurochem Int* 2008 **52** (4-5) 729-733  
Synthesis and preliminary evaluation of (S)-[ $^{11}\text{C}$ ]-exaprolol, a novel  $\beta$ -adrenoceptor ligand for PET
- Velikyan I, Maecke H, Langstrom B// GE Healthcare, GEMS PET Systems AB, Uppsala Appl Sci Lab, SE-75229 Uppsala, Sweden  
*Bioconjug Chem* 2008 **19** (2) 569-573  
Convenient preparation of  $^{68}\text{Ga}$ -based PET-radiopharmaceuticals at room temperature

## Current Awareness

Wadsak W, Mien LK, Shanab K, Weber K, Schmidt B, Sindelar KM, Ettlinger DE, Haeusler D, Spreitzer H, Keppler BK, Viernstein H, Dudczak R, Kletter K, Mitterhauser M// Med Univ Vienna, Dept Nucl Med, Vienna, Austria

*Radiochim Acta* 2008 **96** (2) 119-124

Radiosynthesis of the adenosine A<sub>3</sub> receptor ligand 5-(2-[<sup>18</sup>F]fluoroethyl) 2,4-diethyl-3-(ethylsulfanylcarbonyl)-6-phenylpyridine-5-carboxylate ([<sup>18</sup>F]FE@SUPPY)

Wang M, Wang JQ, Gao MZ, Zheng QH// \*Indiana Univ Sch Med, Dept Radiol, 1345 West 16th St, Indianapolis, In 46202, USA

*Appl Radiat Isot* 2008 **66** (4) 506-512

Facile synthesis of new carbon-11 labeled conformationally restricted rivastigmine analogues as potential PET agents for imaging AChE and BChE enzymes

Warscheid B, Brucker S, Kallenbach A, Meyer HE, Gerwert K, Kotting C// \*Ruhr Univ Bochum, Lehrstuhl Biophys, DE-44780 Bochum, Germany

*Vib Spectrosc* 2008 **48** (1) 28-36

Systematic approach to group-specific isotopic labeling of proteins for vibrational spectroscopy

Wei IC, Tsao N, Huang YH, Ho YS, Wu CC, Yu DF, Yang DJ// \*Univ Texas MD Anderson Canc Ctr, Div Diagn Imaging, 1515 Holcombe Blvd, Box 59, Houston, Tx 77030, USA

*Appl Radiat Isot* 2008 **66** (3) 320-331

<sup>99m</sup>Tc-glycopeptide: Synthesis, biodistribution and imaging in breast tumor-bearing rodents

Windhorst AD, Klein PJ, Eisenbarth J, Oeser T, Kruijer PS, Eisenhut M// Vrije Univ Amsterdam, Dept Nucl Med & PET Res, De Boelelaan 1085c, Amsterdam, The Netherlands

*Nucl Med Biol* 2008 **35** (4) 413-423

3'-Sulfonylestere of 2,5'-anhydro-1-(2-deoxy-β-D-threo-pentofuranosyl) thymine as precursors for the synthesis of [<sup>18</sup>F]FLT: Syntheses and radiofluorination trials

Young Kim J, Jun Oh S\*, Sook Ryu J, Choi SJ, Ha HJ, Hyuk Moon D// \*Univ Ulsan, Dept Nucl Med, Asan Med Ctr, 388-1 Pungnap dong, Songpa gu, Seoul 138 736, South Korea

*Appl Radiat Isot* 2008 **66** (4) 489-496

Synthesis of <sup>99m</sup>Tc(CO)<sub>3</sub>-deoxyuridine derivatives as potential HSV1-tk gene expression imaging agents

Yu W, Williams L, Malveaux E, Camp VM, Olson JJ, Goodman MM// \*Emory Univ Sch Med, Dept Radiol, Atlanta, Ga 30322, USA

*Bioorg Med Chem Lett* 2008 **18** (4) 1264-1268

Synthesis and evaluation of [<sup>123</sup>I] labeled iodovinyl amino acids *syn*-, *anti*-1-amino-3-[2-iodoethenyl]-cyclobutane-1-carboxylic acid, and 1-amino-3-iodomethylene-cyclobutane-1-carboxylic acid as potential SPECT brain tumor imaging agents

Zeng F, Jarkas N, Stehouwer JS, Voll RJ, Owens MJ, Kilts CD, Nemeroff CB, Goodman MM// \*Emory University, Dept Radiol, Atlanta, Ga 30322, USA

*Bioorg Med Chem* 2008 **16** (2) 783-793

Synthesis, *in vitro* characterization, and radiolabeling of reboxetine analogs as potential PET radioligands for imaging the norepinephrine transporter

## Applications:

## 3 Biomedical - General

Barnard PJ, Bayly SR, Holland JP, Dilworth JR, Waghorn PA// Univ Oxford, Inorganic Chem Lab, Siemens Oxford Mol Imaging Lab, Sth Park Rd, Oxford OX1 3QR, England

*Q J Nucl Med Mol Imaging* 2008 **52** (3) 235-244

*In vitro* assays for assessing the potential for copper complexes to function as radiopharmaceutical agents (Review)

Candelli M, Miele L, Armuzzi A, Nista EC, Pignataro G, Fini L, Cazzato IA, Zocco MA, Bartolozzi F, Gasbarrini G\*, Grieco A, Gasbarrini A// \*Univ Cattolica Sacro Cuore, Dept Internal Med, IR-00168 Rome, Italy

*Eur Rev Med Pharmacol Sci* 2008 **12** (4) 245-249

<sup>13</sup>C-methionine breath tests for mitochondrial liver function assessment (Review)

Del Castillo Busto ME, Montes-Bayon M, Bettner J, Sanz-Medel A// \*Univ Oviedo, Dept Phys & Anal Chem, C/ Julian Claveria 8, ES-33006 Oviedo, Spain

*Analyst* 2008 **133** (3) 379-384

Stable isotope labelling and FPLC-ICP-SFMS for the accurate determination of clinical iron status parameters in human serum

Kasicka-Jonderko A, Jonderko K\*, Chabior E, Blonska-Fajfrowska B// \*Med Univ Silesia, Sch Pharm, Dept Basic Biomed Sci, Sosnowiec, Poland

*Isotopes Environ Health Stud* 2008 **44** (3) 295-303

Exact profiles of <sup>13</sup>CO<sub>2</sub> recovery in breath air after per oral administration of [<sup>13</sup>C] methacetin in two groups of different ages

Muller C, Schibli R, Krenning EP, De Jong M// Erasmus MC, Dept Nucl Med, 's-Gravendijkwal 230, NL-3015 CE Rotterdam, The Netherlands

*J Nucl Med* 2008 **49** (4) 623-629

Pemetrexed improves tumor selectivity of <sup>111</sup>In-DTPA-folate in mice with folate receptor-positive ovarian cancer

Toegel S, Wadsak W, Mien LK, Viernstein H, Kluger R, Eidherr H, Haeusler D, Kletter K, Dudczak R, Mitterhauser M// \*Med Univ Vienna, AKH Vienna, Dept Nucl Med, Waehringer Guertel 18-20, AT-1090 Vienna, Austria

*Eur J Pharm Biopharm* 2008 **68** (2) 406-412

Preparation and pre-vivo evaluation of no-carrier-added, carrier-added and cross-complexed [<sup>68</sup>Ga]-EDTMP formulations

## 4 Imaging - General

Giron MC, Portolan S, Bin A, Mazzi U, Cutler CS// Univ Padua, Dept Pharmacol & Anesthesiol, Largo Meneghetti 2, IT-35121 Padua, Italy

*Q J Nucl Med Mol Imaging* 2008 **52** (3) 254-266

Cytochrome P450 and radiopharmaceutical metabolism (Review)

Hesse B, Lindhardt TB, Acampa W, Anagnostopoulos C, Ballinger J, Bax JJ, Edenbrandt L, Flotats A, Germano G, Stopar TG, Franken P, Kelion A, Kjaer A, Le Guludec D, Ljungberg M, Maenhout AF, Marcassa C, Marving J, McKiddie F, Schaefer WM, Stegger L, Underwood R// Univ Hosp, Rigshospitalet, Dept Clin Physiol & Nucl Med, DK-2100 Copenhagen, Denmark

*Eur J Nucl Med Mol Imaging* 2008 **35** (4) 851-885

EANM/ESC guidelines for radionuclide imaging of cardiac function (Review)

Hiona A, Wu JC// \*Stanford Univ Sch Med, Dept Med, Div Cardiol, Stanford, Ca 94305, USA

*Nat Clin Pract Cardiovasc Med* 2008 **5** (Suppl 2) S87-S95

Noninvasive radionuclide imaging of cardiac gene therapy: Progress and potential (Review)

Knol RJJ, De Bruin K, De Jong J, Van Eck-Smit BLE, Booij J// Univ Amsterdam, Acad Med Ctr, Dept Nucl Med, Meibergdreef 9, NL-1105 AZ Amsterdam, The Netherlands

*J Neurosci Methods* 2008 **168** (2) 341-357

*In vitro* and *ex vivo* storage phosphor imaging of short-living radioisotopes

Laforest R, Liu X// Washington Univ Sch Med, Mallinckrodt Inst Radiol, 510 Sth Kingshighway Blvd, Campus Box 8225, St Louis, Mo 63110, USA

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 151-158

Image quality with non-standard nuclides in PET (Review)

Langer HF, Haubner R, Pichler BJ, Gawaz M// Univ Tubingen, Med Klin III, Otfried Mullerstr 10, DE-72076 Tubingen, Germany

*J Am Coll Cardiol* 2008 **52** (1) 1-12

Radionuclide imaging - A molecular key to the atherosclerotic plaque (Review)

Qaim SM// Inst Nucl Chem, Forschungszentrum, DE-52425 Julich, Germany

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 111-120

Decay data and production yields of some non-standard positron emitters used in PET (Review)

Szabo Z, Xia J, Mathews WB// Johns Hopkins Med Inst, Div Nucl Med, 601 Nth Carolina St, Baltimore, Md 21287, USA

*Semin Nucl Med* 2008 **38** (1) 20-31

Radiopharmaceuticals for renal positron emission tomography imaging (Review)

Xiong QF, Chen Y// \*Affiliated Hosp, Luzhou Med Coll, Dept Nucl Med, Taiping St, CN-646000 Luzhou, Peoples Rep China

*Cancer Biother Radiopharm* 2008 **23** (3) 376-381

Deoxyglucose compounds labeled with isotopes different from 18-fluoride: Is there a future in clinical practice? (Review)

## 5 Fluorine

Antenor-Dorsey JAV, Markham J, Moerlein SM, Videen TO, Perlmutter JS// \*Washington Univ, CB 8225, Scott Ave, St Louis, Mo 63110, USA

*Nucl Med Biol* 2008 **35** (3) 335-341

Validation of the reference tissue model for estimation of dopaminergic D<sub>2</sub>-like receptor binding with [<sup>18</sup>F](N-methyl)benperidol in humans

Assadian S, Aliaga A, Del Maestro RF, Evans AC, Bedell BJ// \*McGill Univ Montreal, Neurol Inst, McConnell Brain Imaging Ctr, 3801 University St, Montreal, Quebec, Canada H3A 2B4

*Neuro-Oncology* 2008 **10** (3) 292-299

FDG-PET imaging for the evaluation of antiangioma agents in a rat model

Bradbury MS, Hambarzumyan D, Zanzonico PB, Schwartz J, Cai S, Burnazi EM, Longo V, Larson SM, Holland EC// Mem Sloan Kettering Canc Ctr, Dept Radiol, 1275 York Ave, New York, NY 10021, USA

*J Nucl Med* 2008 **49** (3) 422-429

Dynamic small-animal PET imaging of tumor proliferation with 3'-deoxy-3'-<sup>18</sup>F-fluorothymidine in a genetically engineered mouse model of high-grade gliomas

- Brewer S, McPherson M, Fujiwara D, Turovskaya O, Ziring D, Chen L, Takedatsu H, Targan SR, Wei B, Braun J\*// \*UCLA, Dept Pathol & Lab Med, Mail Code 173216, Los Angeles, Ca 90095, USA  
*Gastroenterology* 2008 **135** (3) 744-755  
 Molecular imaging of murine intestinal inflammation with 2-deoxy-2-[<sup>18</sup>F]fluoro-D-glucose and positron emission tomography
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## Current Awareness

Hirata M, Mori T, Umeda T, Abe T, Yamamoto T, Ohmomo Y// Osaka Univ Pharmaceut Sci, 4-20-1 Nasahara, Osaka 569 1094, Japan  
*Biol Pharm Bull* 2008 **31** (5) 879-883

Evaluation of radioiodinated 1-[2-(3,4-dimethoxyphenyl)ethyl]-4-(2-iodophenylpropyl)piperazine as a tumor diagnostic agent with functional  $\sigma$  receptor imaging by single photon emission computed tomography

Inaba Y, Bergmann SR// Beth Israel Deaconess Med Ctr, Dept Med, Div Med, First Ave, 16 St, New York, NY 10003, USA

*J Nucl Cardiol* 2008 **15** (3) 345-352

Diagnostic accuracy of  $\beta$ -methyl-*p*-[<sup>123</sup>I]-iodophenyl-pentadecanoic acid (BMIPP) imaging: A meta-analysis

Kiyono Y, Sugita T, Ueda M, Kawashima H, Kanegawa N, Kuge Y, Fujibayashi Y, Saji H// Fukui Univ, Biomed Imaging Res Ctr, 23-3 Matsuokashimoaizuki, Fukui 910 1193, Japan

*Nucl Med Biol* 2008 **35** (2) 213-218

Evaluation of radioiodinated (2*S*, $\alpha$ *S*)-2-( $\alpha$ -(2-iodophenoxy)benzyl) morpholine as a radioligand for imaging of norepinephrine transporter in the heart

Lakshmi B, Kung MP, Lieberman B, Zhao J, Waterhouse R, Kung HF\*// \*Univ Pennsylvania, Dept Radiol, Philadelphia, Pa 19104, USA

*Nucl Med Biol* 2008 **35** (1) 43-52

(*R*)-*N*-Methyl-3-(3-<sup>125</sup>I-pyridin-2-yloxy)-3-phenylpropan-1-amine: A novel probe for norepinephrine transporters

Mattner F, Mardon K, Katsifis A// Australian Nucl Sci & Technol Org, Radiopharmaceut Res Inst, PMB 1, Menai, NSW 2234, Australia

*Eur J Nucl Med Mol Imaging* 2008 **35** (4) 779-789

Pharmacological evaluation of [<sup>123</sup>I]-CLINDE: A radioiodinated imidazo-pyridine-3-acetamide for the study of peripheral benzodiazepine binding sites (PBBS)

Meyer PT, Salber D, Schiefer J, Cremer M, Schaefer WM, Kosinski CM, Langen KJ// Univ Hosp Aachen, Dept Nucl Med, DE-52074 Aachen, Germany

*Nucl Med Biol* 2008 **35** (4) 467-473

Cerebral kinetics of the dopamine D<sub>2</sub> receptor ligand [<sup>123</sup>I]IBZM in mice

Pissarek MB, Oros-Peusquens AM, Schramm NU// Res Ctr Julich, Inst Neuroscience & Biophysics, INB-4, Leo Brandt Str, DE-52428 Julich, Germany

*J Neurosci Methods* 2008 **168** (2) 282-292

Challenge by the murine brain: Multi-pinhole SPECT of <sup>123</sup>I-labelled pharmaceuticals

Ricci D, Mennander AA, Pham LD, Rao VP, Miyagi N, Byrne GW, Russell SJ, McGregor CGA\*// \*Mayo Clin, William J von Liebig Transplant Ctr, 9-233 Charlton Bldg, Rochester, Mn 55905, USA

*Eur J Cardiothorac Surg* 2008 **33** (1) 32-39

Non-invasive radioiodine imaging for accurate quantitation of NIS reporter gene expression in transplanted hearts

Stone JM, Erlandsson K, Arstad E, Squassante L, Teneggi V, Bressan RA, Krystal JH, Ell PJ, Pilowsky LS// KCL, Inst Psychiat, Box 54, London WC2R 2LS, England

*Psychopharmacology (Berl)* 2008 **197** (3) 401-408

Relationship between ketamine-induced psychotic symptoms and NMDA receptor occupancy - A [<sup>123</sup>I]CNS-1261 SPET study

## 9 Copper

Anderson CJ, Wadas TJ, Wong EH, Weisman GR// Washington Univ Sch Med, Mallinckrodt Inst Radiol, 510 Sth Kingshighway Blvd, Campus Box 8225, St Louis, Mo 63110, USA

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 185-192

Cross-bridged macrocyclic chelators for stable complexation of copper radionuclides for PET imaging (Review)

Basken NE, Mathias CJ, Lipka AE, Green MA\*// \*Purdue Univ, Div Nucl Pharm, West Lafayette, In 47907, USA

*Nucl Med Biol* 2008 **35** (3) 281-286

Species dependence of [<sup>64</sup>Cu]Cu-bis(thiosemicarbazone) radiopharmaceutical binding to serum albumins

Huang J, Lee CCI, Sutcliffe JL, Cherry SR, Tarantal AF\*// \*Univ Calif Sch Med, Ctr Excellence Translational Human Stem Cell Res, Davis, Ca 95616, USA

*Mol Imaging* 2008 **7** (1) 1-11

Radiolabeling rhesus monkey CD34<sup>+</sup> hematopoietic and mesenchymal stem cells with <sup>64</sup>Cu-pyruvaldehyde-bis(*N*4-methylthiosemicarbazone) for micro-PET imaging

Li WP, Meyer LA, Capretto DA, Sherman CD, Anderson CJ\*// \*Washington Univ Sch Med, Mallinckrodt Inst Radiol, 510 Sth Kingshighway Blvd, Campus Box 8225, St Louis, Mo 63110, USA

*Cancer Biother Radiopharm* 2008 **23** (2) 158-171

Receptor-binding, biodistribution, and metabolism studies of <sup>64</sup>Cu-DOTA-cetuximab, a PET-imaging agent for epidermal growth-factor receptor-positive tumors

Rossin R, Muro S, Welch MJ, Muzykantor VR, Schuster DP// Philips Res Labs, Dept Biomol Engr, High Tech Campus 11, NL-5656 AE Eindhoven, Netherlands

*J Nucl Med* 2008 **49** (1) 103-111

*In vivo* imaging of <sup>64</sup>Cu-labeled polymer nanoparticles targeted to the lung endothelium

Soucy-Faulkner A, Rousseau JA, Langlois R, Berard V, Lecomte R, Benard F, Van Lier JE\*// \*Univ Sherbrooke, Fac Med & Hlth Sci, Dept Med Nucl & Radiobiol, Sherbrooke Mol Imaging Ctr, Sherbrooke, Quebec, Canada J1H 5N4

*J Porphyr Phthalocya* 2008 **12** (1) 49-53

Copper-64 labeled sulfophthalocyanines for positron emission tomography (PET) imaging in tumor-bearing rats

Wong TZ, Lacy JL, Petry NA, Hawk TC, Sporn TA, Dewhurst MW, Vlahovic G// Duke Univ Med Ctr, Dept Radiol, Div Nucl Med, Box 3439, Durham, NC 27710, USA

*Am J Roentgenol* 2008 **190** (2) 427-432

PET of hypoxia and perfusion with <sup>62</sup>Cu-ATSM and <sup>62</sup>Cu-PTSM using a <sup>62</sup>Zn/<sup>62</sup>Cu generator

Wood KA, Wong WL, Saunders MI// Mt Vernon Hosp, Marie Curie Res Wing, Northwood HA6 2RN, England

*Nucl Med Biol* 2008 **35** (4) 393-400

[<sup>64</sup>Cu]diacetyl-bis(*N*-4-methyl-thiosemicarbazone) - A radiotracer for tumor hypoxia (Review)

## 10 Gallium

Fani M, Andre JP, Maecke HR\*// \*Univ Hosp Basel, Div Radiol Chem, Petersgraben 4, CH-4031 Basel, Switzerland

*Contrast Media Mol Imaging* 2008 **3** (2) 53-63

<sup>68</sup>Ga-PET: A powerful generator-based alternative to cyclotron-based PET radiopharmaceuticals (Review)

Jeong JM, Hong MK, Chang YS, Lee YS, Kim YJ, Cheon GJ, Lee DS, Chung JK, Lee MC// Seoul Natl Univ Hosp, Canc Res Inst, Dept Nucl Med, 28 Yungun dong, Jongro gu, Seoul 110 744, South Korea

*J Nucl Med* 2008 **49** (5) 830-836

Preparation of a promising angiogenesis PET imaging agent: <sup>68</sup>Ga-labeled c(RGDyK)-isothiocyanatobenzyl-1,4,7-triazacyclononane-1,4,7-triacetic acid and feasibility studies in mice

Lankinen P, Maekinen TJ, Poeyhoenen TA, Virsu P, Salomaeki S, Hakanen AJ, Jalkanen S, Aro HT, Roivainen A\*// \*Turku Univ Hosp, Turku PET Ctr, FI-20520 Turku, Finland

*Eur J Nucl Med Mol Imaging* 2008 **35** (2) 352-364

<sup>68</sup>Ga-DOTA-VAP-P1 PET imaging capable of demonstrating the phase of inflammation in healing bones and the progress of infection in osteomyelitic bones

Plossl K, Chandra R, Qua WC, Lieberman BP, Kung MP, Zhou R, Huang B, Kung HF\*// \*University Pennsylvania, Dept Radiol, Philadelphia, Pa 19104, USA

*Nucl Med Biol* 2008 **35** (1) 83-90

A novel gallium bisaminthiolate complex as a myocardial perfusion imaging agent

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Cornelissen B, McLarty K, Kersemans V, Scollard DA, Reilly RA\*// \*Univ Toronto, Fac Pharm, Dept Pharmaceut Sci, Toronto, Ontario, Canada M5S 3M2

*Nucl Med Biol* 2008 **35** (1) 101-110

Properties of [<sup>111</sup>In]-labeled HIV-1 tat peptide radioimmunoconjugates in tumor-bearing mice following intravenous or intratumoral injection

Jia F, Figueroa SD, Gallazzi F, Balaji BS, Hannink M, Lever SZ, Hoffman TJ, Lewis MR\*// \*Univ Missouri, Coll Veterinary Med, Dept Veterinary Med & Surg, 900 East Campus Dr, Columbia, Mo 65211, USA

*J Nucl Med* 2008 **49** (3) 430-438

Molecular imaging of *bcl-2* expression in small lymphocytic lymphoma using <sup>111</sup>In-labeled PNA-peptide conjugates

Li L, Bading J, Yazaki PJ, Ahuja AH, Crow D, Colcher D, Williams LE, Wong JYC, Raubitschek A, Shively JE\*// \*City of Hope Natl Med Ctr, Beckman Res Inst, Div Immunol, Duarte, Ca 91010, USA

*Bioconjug Chem* 2008 **19** (1) 89-96

A versatile bifunctional chelate for radiolabeling humanized anti-CEA antibody with <sup>111</sup>In and <sup>64</sup>Cu at either thiol or amino groups: PET imaging of CEA-positive tumors with whole antibodies

Manyak MJ// George Washington Univ, Cytogen Corp, 650 College Rd East, Suite 3100, Princeton, NJ 08540, USA

*Expert Rev Anticancer Ther* 2008 **8** (2) 175-181

Indium-111 capromab pendetide in the management of recurrent prostate cancer (Review)

Miao Y, Gallazzi F, Guo H, Quinn TP// Univ New Mexico, Canc Res Treatment Ctr, Marble Ave NE, MSC09 5360, Albuquerque, NM 87131, USA  
*Bioconj Chem* 2008 **19** (2) 539-547

<sup>111</sup>In-labeled lactam bridge-cyclized  $\alpha$ -melanocyte stimulating hormone peptide analogues for melanoma imaging

Rolleman EJ, Bernard BF, Breeman WAP, Forrer F, De Blois E, Hoppin J, Gotthardt M, Boerman OC, Krenning EP, De Jong M// Erasmus MC, Dept Nucl Med, 'sGravendijkwal 230, NL-3015 CE Rotterdam, The Netherlands  
*Nuklearmedizin* 2008 **47** (3) 110-115

Molecular imaging of reduced renal uptake of radiolabelled [DOTA<sup>0</sup>, Tyr<sup>3</sup>]octreotate by the combination of lysine and gelofusine in rats

Wallberg H, Orlova A\*// \*Uppsala Univ, Unit Biomed Radiat Sci, Rudbeck Lab, Hammarskjolds vag 20, SE-75185 Uppsala, Sweden  
*Cancer Biother Radiopharm* 2008 **23** (4) 435-442

Slow internalization of anti-HER2 synthetic Affibody monomer <sup>111</sup>In-DOTA-Z<sub>HER2:342-pep2</sub>: Implications for development of labeled tracers

## 12 Hydrogen

Kumar P, Emami S, McEwan AJB, Wiebe LI// Cross Canc Inst, Dept Oncol Imaging, 11560 University Ave, Edmonton, Alberta, Canada T6G 1Z2

*Bioorg Med Chem Lett* 2008 **18** (11) 3256-3260

Stereospecific deuteration of  $\alpha$ -furanosyl azomycin nucleosides: A model reaction for tritium radiolabeling

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Herzog H, Tellmann L, Scholten B, Coenen HH, Qaim SM// Forschungszentrum Julich, Inst Med, DE-52425 Julich, Germany

*Q J Nucl Med Mol Imaging* 2008 **52** (2) 159-165

PET imaging problems with the non-standard positron emitters yttrium-86 and iodine-124 (Review)

Miao Y, Figueroa SD, Fisher DR, Moore HA, Testa RF, Hoffman TJ, Quinn TP// UNM, Coll Pharm, Marble Ave NE, Albuquerque, NM 87131, USA

*J Nucl Med* 2008 **49** (5) 823-829

<sup>203</sup>Pb-labeled alpha-melanocyte-stimulating hormone peptide as an imaging probe for melanoma detection

Yang XJ, He YM, Wu YW, Zhang B, Hui J, Jiang TB, Song JP, Liu ZH, Jiang WP// First Affiliated Hosp, Soochow Univ, Dept Cardiol, CN-215006 Suzhou, Jiangsu Prov, Peoples Rep China

*Nucl Med Commun* 2008 **29** (3) 230-238

Hypoxia imaging of patients with acute myocardial infarction by using dual isotopes of <sup>201</sup>Tl and <sup>99m</sup>Tc-HL91

## 14 Therapy

Dahle J, Bruland OS, Larsen RH// Norwegian Radium Hosp, Dept Radiat Biol, NO-0310 Oslo, Norway

*Int J Radiat Oncol Biol Phys* 2008 **72** (1) 186-192

Relative biologic effects of low-dose-rate alpha-emitting <sup>227</sup>Th-rituximab and  $\beta$ -emitting <sup>90</sup>Y-tiuexetan-ibritumomab versus external beam X-radiation

De Keizer B, Van Aken MO, Feelders RA, De Herder WW, Kam BLR, Van Essen M, Krenning EP, Kwekkeboom DJ// Erasmus MC, Dept Nucl Med, POB 2040, NL-3000 CA Rotterdam, The Netherlands

*Eur J Nucl Med Mol Imaging* 2008 **35** (4) 749-755

Hormonal crises following receptor radionuclide therapy with the radiolabeled somatostatin analogue [<sup>177</sup>Lu-DOTA<sup>0</sup>, Tyr<sup>3</sup>]octreotate

Julow J, Kolumban Z, Viola A, Major T, Kolumban G// St John's Hosp, Dept Neurosurg, Diosarok u 1-3, HU-1125 Budapest, Hungary

*Neuro Oncology* 2008 **10** (4) 583-592

Prediction of volumetric change in the "triple ring" caused by glioma <sup>125</sup>I brachytherapy

Rosenkranz AA, Vaidyanathan G, Pozzi OR, Lunin VG, Zalutsky MR, Sobolev AS\*// \*Russian Acad Sci, Inst Gene Biol, Lab Mol Genet Intracellular Transport, 34-5 Vavilov St, RU-119334 Moscow, Russia

*Int J Radiat Oncol Biol Phys* 2008 **72** (1) 193-200

Engineered modular recombinant transporters: Application of new platform for targeted radiotherapeutic agents to alpha-particle emitting <sup>211</sup>At

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Zayed SMAD, Farghaly M, Mahdy F\*, Soliman SM// \*Natl Res Ctr, Dept Appl Organ Chem, Cairo, Egypt

*J Environ Sci Health B* 2008 **43** (7) 595

Impact of repeated pesticide applications on the binding and release of methyl <sup>14</sup>C-monocrotophos and U-ring labelled <sup>14</sup>C-carbaryl to soil matrices under field conditions

## I6 Analytical techniques

Bernstein R, Thornberg SM, Irwin AN, Hochrein JM, Derzon DK, Klamo SB, Clough RL\*// \*Sandia Natl Labs, POB 5800, Albuquerque, NM 87185, USA

*Polym Degrad Stabil* 2008 **93** (4) 854-870

Radiation-oxidation mechanisms: Volatile organic degradation products from polypropylene having selective <sup>13</sup>C labeling studied by GC/MS

Carrillo JD, Martinez MP, Tena MT\*// \*Univ La Rioja, Dept Chem, C/ Madre de Dios 51, ES-26006 Logrono, Spain

*J Chromatogr A* 2008 **1181** (1-2) 125-130

Determination of phthalates in wine by headspace solid-phase microextraction followed by gas chromatography-mass spectrometry use of deuterated phthalates as internal standards

Heinzle E, Yuan Y, Kumar S, Wittman C, Gehre M, Richnow HH, Wehrung P, Adam P, Albrecht P// Univ Saarland, Biochem Engn Inst, DE-66123 Saarbrücken, Germany

*Anal Biochem* 2008 **380** (2) 202-210

Analysis of <sup>13</sup>C labeling enrichment in microbial culture applying metabolic tracer experiments using gas chromatography-combustion-isotope ratio mass spectrometry

Huang XD, Regnier FE\*// \*Purdue Univ, Dept Chem, West Lafayette, IN 47907, USA

*Anal Chem* 2008 **80** (1) 107-114

Differential metabolomics using stable isotope labeling and two-dimensional gas chromatography, with time-of-flight mass spectrometry

Kotseridis YS, Spink M, Brindle ID, Blake AJ, Sears M, Chen X, Soleas G, Inglis D, Pickering GJ// Agric Univ Athens, Dept Food Sci & Technol, Athens, Greece

*J Chromatogr A* 2008 **1190** (1-2) 294-301

Quantitative analysis of 3-alkyl-2-methoxypyrazines in juice and wine using stable isotope labelled internal standard assay

Liao WL, Turko IV\*// \*University Maryland, Natl Inst Stand & Technol, Maryland Biotechnol Inst, Ctr Advanced Res Biotechnol, Rockville, Md 20850, USA

*Anal Biochem* 2008 **377** (1) 55-61

Strategy combining separation of isotope-labeled unfolded proteins and matrix-assisted laser desorption/ionization mass spectrometry analysis enables quantification of a wide range of serum proteins

Lindegardh N, Annerberg A, White NJ, Day NPJ// Mahidol University, Faculty Tropical Medicine, 420-6 Rajvithi Road, TH-10400 Bangkok, Thailand

*J Chromatogr B* 2008 **862** (1-2) 227-236

Development and validation of a liquid chromatographic-tandem mass spectrometric method for determination of piperazine in plasma: Stable isotope labeled internal standard does not always compensate for matrix effects

Lindner LH, Eibl H, Hossann M, Vogeser M// University Munich Hospital, Department Internal Medicine 3, Marchioninistr 15, DE-81377 Munich, Germany

*J Chromatogr B* 2008 **869** (1-2) 16-19

Quantification of erufosine, the first intravenously applicable alkyl-phosphocholine, in human plasma by isotope dilution liquid chromatography-tandem mass spectrometry using a deuterated internal standard

Marengo M, Lodi F, Magi S, Cicoria G, Pancaldi D, Boschi S// St Orsola Marcello Malpighi Hosp, Dept Med Phys, Bologna, Italy

*Appl Radiat Isot* 2008 **66** (3) 295-302

Assessment of radionuclidic impurities in 2-[<sup>18</sup>F]fluoro-2-deoxy-D-glucose ([<sup>18</sup>F]FDG) routine production

Nanavati D, Gucek M, Milne JLS, Subramanian S, Markey SP\*// \*Nat Inst Ment Hlth, Lab Neurotoxicol, 10 Ctr Dr, Rm 3D42, Bethesda, Md 20892, USA

*Mol Cell Proteomics* 2008 **7** (2) 442-447

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Wang FY, Weidt S, Xu JJ, Mackay CL, Langridge-Smith PRR, Sadler PJ\*// \*University Warwick, Department Chemistry, Coventry CV4 7AL, Warwickshire, England

*J Am Soc Mass Spectrom* 2008 **19** (4) 544-549

Identification of clusters from reactions of ruthenium arene anticancer complex with glutathione using nanoscale liquid chromatography Fourier transform ion cyclotron mass spectrometry combined with <sup>18</sup>O-labeling

Xiao GG, Garg M, Lim S, Wong D, Go VL, Lee WNP\*// \*University California Los Angeles, Los Angeles Harbor Biomedical Research Institute, Department Pediatrics, Division Endocrinology, Torrance, California 90502, USA

*J Appl Physiol* 2008 **104** (3) 828-836

Determination of protein synthesis in vivo using labeling from deuterated water and analysis of MALDI-TOF spectrum