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Current awareness in labelled compounds and radiopharmaceuticals

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I Radionuclide production

Asti M, De Pietri G, Fraternali A, Grassi E, Sghedoni R, Floroni F, Roesch F, Versari A, Salvo D// Santa Maria Nuova Hosp, Dept Nucl Med, Reggio Emilia, Italy

Nucl Med Biol 2008 **35** (6) 721-724

Validation of $^{68}\text{Ge}/^{68}\text{Ga}$ generator processing by chemical purification for routine clinical application of ^{68}Ga -DOTATOC

Chattopadhyay S, Das MK// Ctr Variable Energy Cyclotron, I/AF Bidhan Nagar, IN-700064 Kolkata, India

Appl Radiat Isot 2008 **66** (10) 1295-1299

A novel technique for the effective concentration of $^{99\text{m}}\text{Tc}$ from a large alumina column loaded with low specific-activity (n, γ)-produced ^{99}Mo

Medvedev DG, Mausner LF, Greene GA, Hanson AL// Brookhaven Natl Lab, Dept Med, Upton, NY 11973, USA

Appl Radiat Isot 2008 **66** (10) 1300-1306

Activation of natural Hf and Ta in relation to the production of ^{177}Lu

Sadeghi M, Dastan M, Ensaf MR, Tehrani AA, Tenreiro C, Avila M// Agric Med & Ind Res Sch, Nucl Med Res Grp, POB 31485, Karaj 498, Iran

Appl Radiat Isot 2008 **66** (10) 1281-1286

Thick tellurium electrodeposition on nickel-coated copper substrate for ^{124}I production

Sadeghi M, Amiri M, Roshanfarzad P, Avila M, Tenreiro C// Nucl Res Ctr Agric & Med, Cyclotron Dept, Karaj, Iran

Radiochim Acta 2008 **96** (7) 399-402

Radiochemical studies relevant to the no-carrier-added production of $^{61,64}\text{Cu}$ at a cyclotron

Sumiya LCA, Sciani V// IPEN, Cyclotron Dept, BR-11049 Sao Paulo, Brazil

Appl Radiat Isot 2008 **66** (10) 1337-1340

Evaluation of irradiation parameters of enriched ^{124}Xe target for ^{123}I production in cyclotrons

Van Rooyen J, Szucs Z, Rijn Zeevaart J*// *Sth African Nucl Energy Corp Ltd, Radiochem, POB 582, ZA-0001 Pretoria, Rep Sth Africa

Appl Radiat Isot 2008 **66** (10) 1346-1349

A possible *in vivo* generator $^{103}\text{Pd}/^{103\text{m}}\text{Rh}$ —Recoil considerations

Van So L, Pellegrini P, Katsifis A, Howse J, Greguric I// Australian Nucl Sci & Technol Org, Radiopharmaceut Res Inst, PMBI, New Illawarra Rd, Menai, NSW 2234, Australia

J Radioanal Nucl Chem 2008 **277** (2) 451-466

Radiochemical separation and quality assessment for the ^{68}Zn target based ^{64}Cu radioisotope production

Van So L, Morcos N// Address as above

J Radioanal Nucl Chem 2008 **277** (3) 651-661

New SPE column packing material: Retention assessment method and its application for the radionuclide chromatographic separation

Van So L, Morcos N, Zaw M, Pellegrini P, Greguric I// Address as above

J Radioanal Nucl Chem 2008 **277** (3) 663-673

Alternative chromatographic processes for no-carrier added ^{177}Lu radioisotope separation - Part I. Multi-column chromatographic process for clinically applicable

Van So L, Morcos N, Zaw M, Pellegrini P, Greguric I, Nevissi A// Address as above

J Radioanal Nucl Chem 2008 **277** (3) 675-683

Alternative chromatographic processes for no-carrier added ^{177}Lu radioisotope separation - Part II. The conventional column chromatographic separation combined with HPLC for high purity

2 Labelled compound synthesis

Andrews JR, Egan JA, Filer CN*// *PerkinElmer Life & Analytical Sci Inc, 549 Albany St, Boston, Ma 02118, USA

Appl Radiat Isot 2008 **66** (10) 1392-1395

Tritiation of several antihypertensive agents at high specific activity

Banerjee SR, Foss CA, Castanares M, Mease RC, Byun Y, Fox JJ, Hilton J, Lupold SE, Kozikowski AP, Pomper MG// UMDS Guys & St Thomas Hospital, Floor 26, Tower Wing, St Thomas Street, London SE1 9RT, England

J Med Chem 2008 **51** (15) 4504-4517

Synthesis and evaluation of technetium-99m-and rhenium-labeled inhibitors of the prostate-specific membrane antigen (PSMA)

Biechlin ML, Bonmartin A, Gilly FN, Frayssse M, Du Moulinet d'Hardemare A// Ctr Hosp Chambery, Nucl Med Serv, rue Pierre & Marie Curie, FR-76300 Chambery, France

Nucl Med Biol 2008 **35** (6) 679-687

Radiolabeling of annexin A5 with $^{99\text{m}}\text{Tc}$: Comparison of HYNIC-Tc vs. iminothiolane-Tc-tricarbonyl conjugates

Boswell CA, Regino CAS, Baidoo KE, Wong KJ, Bumb A, Xu H, Milenic DE, Kelley JA, Lai CC, Brechbiel MW*// *NIH/NCI, Radioimmune & Inorgan Chem Sect, Radiat Oncol Branch, Bldg 10, Rm 1B40, 10 Ctr Dr, Bethesda, Md 20892, USA

Bioconjug Chem 2008 **19** (7) 1476-1484

Synthesis of a cross-bridged cyclam derivative for peptide conjugation and ^{64}Cu radiolabeling

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.

- Bourdier T, Huiban M, Huet A, Sobrio F, Fouquet E, Perrio C, Barre L*// *Univ Caen, Grp Dev Methodol Tomographie Emission Positons, UMR CEA 2E, Ctr Cyceron, 15 Blvd Henri Becquerel, FR-14070 Caen, France
Synthesis (Stuttgart) 2008 (6) 978-984
Tetra- and monoorganotin reagents in palladium-mediated cross-coupling reactions for the labeling with carbon-11 of PET tracers
- Cappelli A, Mancini A, Sudati F, Valenti S, Anzini M, Belloli S, Moresco RM, Matarrese M, Vaghi M, Fabro A, Fazio F, Vomero S// Univ Siena, Dipt Farmaco Chim Tecnol, Via A Moro, IT-53100 Siena, Italy
Bioconjug Chem 2008 **19** (6) 1143-1153
Synthesis and biological characterization of novel 2-quinolinecarboxamide ligands of the peripheral benzodiazepine receptors bearing technetium-99m or rhenium
- Cardoso DS, Rodrigues RJ, Toledo VPCP, Moraes-Santos T, Cardoso VN, Nunan EA// Univ Fed Minas Gerais, Fac Farm, Lab Controle Qualidade Prod Farmaceut & Cosmet, Belo Horizonte, MG, Brazil
J Radioanal Nucl Chem 2008 **277** (2) 317-320
^{99m}Tc labeling of the scorpion (*Tityus serrulatus*) antivenom
- Casey PW, Besanger TR, Schaffer P, Valliant JF*// *McMaster Univ, McMaster Nucl Reactor, Hamilton, Ontario, Canada L8S 4M1
Inorg Chem 2008 **47** (18) 8213-8221
Expedient multi-step synthesis of organometallic complexes of Tc and Re in high effective specific activity. A new platform for the production of molecular imaging and therapy agents
- Chen ZP, Wang SP, Tang J, Li XM, Liu CY, Xu XJ, Cao GX// Jiangsu Inst Nucl Med, PRC Key Lab Nucl Med, Minist Hlth, CN-214063 Wuxi, Peoples Rep China
J Radioanal Nucl Chem 2008 **277** (3) 591-594
Simplified method for determining radiochemical purity of ^{99m}Tc-TRODAT-1
- Damont A, Hinnen F, Kuhnast B, Schollhorn-Peyronneau MA, James M, Luus C, Tavittian B, Kassiou M, Dolle F*// *CEA, Service Hosp Frederic Joliot, DSV Inst Imagerie Biomed, Lab Imagerie Mol Expt, FR-91401 Orsay, France
J Label Compound Radiopharm 2008 **51** (7) 286-292
Radiosynthesis of [¹⁸F]DPA-714, a selective radioligand for imaging the translocator protein (18 kDa) with PET
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Appl Radiat Isot 2008 **66** (8) 1091-1096
Radiolabelling, quality control and radiochemical purity assessment of the octreotide analogue ⁶⁸Ga DOTA NOC
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Labeling, characterization, and *in vivo* localization of a new ⁹⁰Y-based phosphonate chelate 2,3-dicarboxypropane-1,1-diphosphonic acid for the treatment of bone metastases: Comparison with ^{99m}Tc-DPD complex
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Aust J Chem 2008 **61** (6) 438-445
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Eur J Nucl Med Mol Imaging 2008 **35** (10) 1878-1886
Tetrafluorophenolate of HBED-CC: A versatile conjugation agent for ⁶⁸Ga-labeled small recombinant antibodies
- Femia FJ, Maresca KP, Hillier SM, Zimmerman CN, Joyal JL, Baret JA, Aras O, Dilsizian V, Eckelman WC, Babich JW*// *Molecular Insight Pharmaceuticals Inc, 160 Second St, Cambridge, Ma 02142, USA
J Nucl Med 2008 **49** (6) 970-977
Synthesis and evaluation of a series of ^{99m}Tc(CO)₃⁺ lisinopril complexes for *in vivo* imaging of angiotensin-converting enzyme expression
- Filer CN// PerkinElmer Life & Analytical Sciences Inc, 549 Albany St, Boston, Ma 02118, USA
J Radioanal Nucl Chem 2008 **277** (3) 707-714
Radiolabeling of serotonergic ligands with tritium and iodine-125 (Review)
- Flavell RR, Kothari P, Bar-Dagan M, Synan M, Vallabhajosula S, Friedman JM, Muir TW*, Ceccarini G// *Rockefeller Univ, Howard Hughes Med Inst, Mol Genet Lab, New York, NY 10065, USA
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Site-specific ¹⁸F-labeling of the protein hormone leptin using a general two-step ligation procedure
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J Med Chem 2008 **51** (13) 3700-3712
Synthesis and biological evaluation of substituted [¹⁸F]imidazo[1,2-a]pyridines and [¹⁸F] pyrazolo[1,5-a]pyrimidines for the study of the peripheral benzodiazepine receptor using positron emission tomography
- Gao MZ, Wang M, Hutchins GD, Zheng QH*// *Indiana Univ Sch Med, Dept Radiol, 1345 West 16th St, Indianapolis, In 46202, USA
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Synthesis of new carbon-11 labeled benzoxazole derivatives for PET imaging of 5-HT₃ receptor
- Guo N, Alagille D, Tamagnan G, Price RR, Baldwin RM// Vanderbilt Univ Sch Med, Dept Radiol & Radiol Sci, 1161 21st Ave Sth, Nashville, Tn 37232, USA
Appl Radiat Isot 2008 **66** (10) 1396-1402
Microwave-induced nucleophilic [¹⁸F]fluorination on aromatic rings: Synthesis and effect of halogen on [¹⁸F]fluoride substitution of *meta*-halo (F, Cl, Br, I)-benzonitrile derivatives
- Han Y, Alexander TE, Tochtrop GP*// *Case Western Reserve Univ, Dept Chem, 10900 Euclid Ave, Cleveland, Oh 44106, USA
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- Harwig CW, Ting R, Adam MJ, Ruth TJ, Perrin DM*// *Univ British Columbia, Dept Chem, 2036 Main Mall, Vancouver, Brit Columbia, Canada V6T 1Z1
Tetrahedron Lett 2008 **49** (19) 3152-3156
Synthesis and characterization of 2,6-difluoro-4-carboxyphenylboronic acid and a biotin derivative thereof as captors of anionic aqueous [¹⁸F]-fluoride for the preparation of [¹⁸F/¹⁹F]-labeled aryltrifluoroborates with high kinetic stability
- Holland JP, Barnard PJ, Collison D, Dilworth JR, Edge R, Green JC, Heslop JM, McInnes EJJ, Salzmann CG, Thompson AL// Univ Oxford, Dept Chem, Chem Res Lab, 12 Mansfield Rd, Oxford OX1 3TA, England
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Synthesis, X-ray crystallography, spectroelectrochemistry and computational studies on potential copper-based radiopharmaceuticals
- Hooper J, Watts P*, Wiles C// *Univ Hull, Dept Chem, Cottingham Rd, Hull HU6 7RX, England
Microfluid Nanofluid 2008 **5** (5) 595-602
Deuterated isotope labelling of phenol derivatives within micro reactors
- Ilovich O, Jacobson O, Aviv Y, Litchi A, Chisin R, Mishani E*// *Hadassah Hebrew Univ Hosp, Dept Med Biophys & Nucl Med, IL-91120 Jerusalem, Israel
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Formation of fluorine-18 labeled diaryl ureas—labeled VEGFR-2/PDGFR dual inhibitors as molecular imaging agents for angiogenesis
- Jalilian AR, Shanehazzadeh S, Akhlaghi M, Garoosi J, Rajabifar S, Tavakoli AB// Agric Med & Ind Res Sch, Nucl Med Res Grp, POB 31485-498, Karaj, Iran
Radiochim Acta 2008 **96** (7) 435-439
Preparation and evaluation of [⁶⁷Ga]-DTPA-β-1-24-corticotrophin in normal rats
- Jarrett BR, Gustafsson B, Kukis DL, Louie AY*// *Univ Calif Davis, Dept Biomed Engr, Davis, Ca 95616, USA
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Synthesis of ⁶⁴Cu-labeled magnetic nanoparticles for multimodal imaging
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J Med Chem 2008 **51** (6) 1617-1622
Synthesis and cerebral uptake of 1-(1-[¹¹C]methyl-1H-pyrrol-2-yl)-2-phenyl-2-(1-pyrrolidinyl) ethanone, a novel tracer for positron emission tomography studies of monoamine oxidase type A
- Jobson NK, Spike R, Crawford AR, Dewar D, Pimlott SL, Sutherland A*// *Univ Glasgow, Dept Chem, WestChem, Joseph Black Bldg, Glasgow G12 8QQ, Scotland
Org Biomol Chem 2008 **6** (13) 2369-2376
Stereoselective synthesis of (2*S*,3*R*)- and (2*R*,3*S*)-iodoreboxetine; potential SPECT imaging agents for the noradrenaline transporter

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Automated synthesis of the generic peptide labelling agent *N*-succinimidyl 4-[¹⁸F]fluorobenzoate and application to ¹⁸F-label the vasoactive transmitter urotensin-II as a ligand for positron emission tomography
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- Lee BC, Kim DH, Lee I, Choe YS*, Chi DY, Lee KH, Choi Y, Kim BT// *Sungkyunkwan Univ, Dept Nucl Med, Samsung Med Ctr, 50 Ilwon dong, Kangnam gu, Seoul 135 710, South Korea
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Bioconjug Chem 2008 **19** (5) 1049-1054
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Nucl Med Commun 2008 **29** (8) 736-740
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Nucl Med Biol 2008 **35** (5) 615-622
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- Ohki SY, Kainosho M*// *Tokyo Metropolitan University, Graduate School Science, CREST/JST, 1-1 Minami Ohsawa, Hachioji, Tokyo 192 0397, Japan
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Synthesis, radiofluorination, and *in vitro* evaluation of pyrazolo[1,5-*a*]pyridine-based dopamine D₄ receptor ligands: Discovery of an inverse agonist radioligand for PET
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J Med Chem 2008 **51** (10) 2954-2970
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- Ran C, Xu D, Dai Q, Penning TM, Blair IA, Harvey RG*// *Univ Chicago, Ben May Dept Canc Res, Chicago, IL 60637, USA
Tetrahedron Lett 2008 **49** (29-30) 4531-4533
Synthesis of ¹³C₂-benzo[*a*]pyrene and its 7,8-dihydrodiol and 7,8-dione implicated as carcinogenic metabolites

Ryu EK, Wu Z, Chen K, Lazarus LH, Marczak ED, Sasaki Y, Ambo A, Salvadori S, Ren C, Zhao H, Balboni G*, Chen X// *Univ Cagliari, Dept Toxicol, IT-09124 Cagliari, Italy

J Med Chem 2008 **51** (6) 1817-1823

Synthesis of a potent and selective ^{18}F -labeled δ -opioid receptor antagonist derived from the Dmt-Tic pharmacophore for positron emission tomography imaging

Seela F, Xu K// Ctr Nanotechnol, Lab Bioorgan Chem & Chem Biol, Heisenbergstr 22, DE-48149 Munster, Germany

Org Biomol Chem 2008 **6** (19) 3552-3560

DNA with stable fluorinated dA and dG substitutes: Syntheses, base pairing and ^{19}F -NMR spectra of 7-fluoro-7-deaza-2'-deoxyadenosine and 7-fluoro-7-deaza-2'-deoxyguanosine

Skowera K, Kanska M// *Univ Warsaw, Dept Chem, Pasteur Str 1, PL-02093 Warsaw, Poland

J Label Compound Radiopharm 2008 **51** (8) 321-324

Enzymatic synthesis of phenylpyruvic acid labeled with deuterium, tritium, and carbon-14

Stahlschmidt A, Machulla HJ, Reischl G, Knaus EE, Wiebe LI// *Univ Alberta, Fac Pharm & Pharmaceut Sci, 11560 University Ave, Edmonton, Alberta, Canada T6B 1Z2

Appl Radiat Isot 2008 **66** (9) 1221-1228

Radioiodination of 1-(2-deoxy- β -D-ribofuranosyl)-2,4-difluoro-5-iodobenzene (dRFIB), a putative thymidine mimic nucleoside for cell proliferation studies

Stephenson KA, Wilson AA, Meyer JH, Houle S, Vasdev N// *Ctr Addict & Mental Hlth, 250 College St, Toronto, Ontario, Canada M5T 1R8

J Med Chem 2008 **51** (16) 5093-5100

Facile radiosynthesis of fluorine-18 labeled β -blockers. Synthesis, radiolabeling, and *ex vivo* biodistribution of [^{18}F]- (2S and 2R)-1-(1-fluoropropan-2-ylamino)-3-(*m*-tolylxy)propan-2-ol

Tang GH, Tang XL, Wang MF, Li BY, Liang MQ, Wang QS// Sthn Med Univ, Nan Fang Hosp, Dept Nucl Med, Nan Fang PET Ctr, CN-510515 Guangzhou, Guangdong, Peoples Rep China

J Label Compound Radiopharm 2008 **51** (7) 297-301

A simple and rapid automated radiosynthesis of [^{18}F]fluoroacetate

Terauchi T, Kobayashi K, Okuma K, Oba M, Nishiyama K, Kainosho M// *Tokyo Metropolitan Univ, Grad Sch Sci, 1-1 Minami Osawa, Hachioji, Tokyo 192 0397, Japan

Org Lett 2008 **10** (13) 2785-2787

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Ting R, Harwig CW, Lo J, Li Y, Adam MJ, Ruth TJ, Perrin DM// *UBC, Dept Chem, 2036 Main Mall, Vancouver, Brit Columbia, Canada V6T 1Z1

J Org Chem 2008 **73** (12) 4662-4670

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Trabelsi M, Mekni A, Solanki C, Maltby P, Saidi M// Royal Liverpool Univ Hosp, Radiopharm Dept, Prescott St, Liverpool L7 8XP, England

Nukleonika 2008 **53** (3) 97-101

New microwave assisted radiolabelling method and rat brain biodistribution study of two new $^{99\text{m}}\text{Tc}$ -tricarboxyl complexes as potential brain imaging agents

Truhlar SME, Cervantes CF, Torpey JW, Kjaergaard M, Komives EA// *Univ Calif San Diego, Dept Chem & Biochem, 9500 Gilman Dr, La Jolla, Ca 92093, USA

Protein Sci 2008 **17** (9) 1636-1639

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Van Tilburg EW, Mooijer MPJ, Brinkhorst J, Van der Meij M, Windhorst AD// *Vrije Univ Amsterdam, Dept Nucl Med, Radionuclide Ctr, De Boelelaan 1083c, NL-1081 HV Amsterdam, The Netherlands

Appl Radiat Isot 2008 **66** (10) 1414-1418

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Vasdev N, LaRonde FJ, Woodgett JR, Garcia A, Rubie EA, Meyer JH, Houle S, Wilson AA// Ctr Addict & Mental Hlth, 250 College St, Toronto, Ontario, Canada M5T 1R8

Bioorg Med Chem 2008 **16** (9) 5277-5284

Rationally designed PKA inhibitors for positron emission tomography: Synthesis and cerebral biodistribution of *N*-(2-(4-bromocinnamylamino)ethyl)-*N*-[^{11}C]methyl-isoquinoline-5-sulfonamide

Verdurand M, Bort G, Tadino V, Bonnefoi F, Le Bars D, Zimmer L// *CERMEP-Imagerie Vivant, 59 Blvd Pinel, FR-69003 Lyon, France

Nucl Med Commun 2008 **29** (10) 920-926

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Wang GQ, Zhang J, Luo SZ, Wang N, Wei HY, Wang WJ, Yang YQ, Liu GP, Yu XQ// Sichuan Univ, Dept Chem, MoE Key Lab Green Chem & Technol, CN-610064 Chengdu, Peoples Rep China

J Radioanal Nucl Chem 2008 **277** (2) 365-369

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Wang M, Cooley B, Gao MZ, Miller KD, Sledge GW, Hutchins GD, Zheng QH// *Indiana Univ Sch Med, Dept Radiol, 1345 West 16th St, Indianapolis, In 46202, USA

Appl Radiat Isot 2008 **66** (10) 1406-1413

Synthesis of new carbon-11 labeled naphthalene-sulfonamides for PET imaging of human CCR8

Wuest F, Berndt M, Bergmann R, Van den Hoff J, Pietzsch J// Res Ctr Dresden Rossendorf, Inst Radiopharm, POB 51 01 19, DE-01314 Dresden, Germany

Bioconjug Chem 2008 **19** (6) 1202-1210

Synthesis and application of [^{18}F]FDG-maleimidehexyloxime ([^{18}F]FDG-MHO): A [^{18}F]FDG-based prosthetic group for the chemoselective ^{18}F -labeling of peptides and proteins

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Bioorg Med Chem 2008 **16** (16) 7662-7670

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Yanvarev DV, Shirokova EA, Kukhanova MK, Skoblov YS// Russian Acad Sci, VA Engelhardt Mol Biol Inst, 32 Vavilov St, RU-119991 Moscow, Russia

J Label Compound Radiopharm 2008 **51** (8) 303-307

A new chemical method of synthesis of modified nucleoside [^{32}P] phosphates

Yu W, Wang E, Voll RJ, Miller AH, Goodman MM// *Emory Univ Sch Med, Dept Radiol, Atlanta, Ga 30322, USA

Bioorg Med Chem 2008 **16** (11) 6145-6155

Synthesis, fluorine-18 radiolabeling, and *in vitro* characterization of 1-iodophenyl-*N*-methyl-*N*-fluoroalkyl-3-isoquinoline carboxamide derivatives as potential PET radioligands for imaging peripheral benzodiazepine receptor

Zeng WB, Yao ML, Townsend D, Kabalka G, Wall J, Le Puiil M, Biggerstaff J, Miao WM// *Univ Tennessee, Mol Imaging & Translation Res Program, Box 93, 1924 Alcoa Highway, Knoxville, Tn 37920, USA

Bioorg Med Chem Lett 2008 **18** (12) 3573-3577

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Zhang MR, Kumata K, Takei M, Fukumura T, Suzuki K// Natl Inst Radiol Sci, Dept Mol Probes, Mol Imaging Ctr, 4-9-1 Anagawa, Inage ku, Chiba 263 8555, Japan

Appl Radiat Isot 2008 **66** (10) 1341-1345

How to introduce radioactive chlorine into a benzene ring using [^{36}Cl]Cl $^{-}$

Zhao H// Southeast Univ, Ordered Matter Sci Res Ctr, CN-217189 Nanjing, Peoples Rep China

J Label Compound Radiopharm 2008 **51** (7) 293-296

The synthesis and structures of deuterium-labeled 5-substituted 1*H*-tetrazoles

Applications:

3 Biomedical - General

Baklayan GA, Patterson HM, Song CK, Gow JA, McNamara TR// ISTA Pharmaceuticals Inc, 15295 Alton Pkwy, Irvine, Ca 92618, USA

J Ocul Pharmacol Ther 2008 **24** (4) 392-398

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Garbe LA, Morgenthal K, Kuscher K, Tressl R// TU Berlin, Inst Biotechnol, Seestr 13, DE-13353 Berlin, Germany

Helv Chim Acta 2008 **91** (6) 993-1007

Metabolism of deuterated erythro-dihydroxy fatty acids in *Saccharomyces cerevisiae*: Enantioselective formation and characterization of hydroxy-lactones

Leeder JS, Pearce RE, Gaedigk A, Modak A, Rosen DI// Children's Mercy Hosp, Sect Dev Pharmacol & Expt Therapeut, 2401 Gillham Rd, Kansas City, Mo 64108, USA

J Clin Pharmacol 2008 **48** (9) 1041-1051

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Mallia MB, Subramanian S, Mathur A, Sarma HD, Venkatesh M, Banerjee S// *Bhabha Atom Res Ctr Radiopharmaceut Div, IN-400085 Mumbai, India

J Label Compound Radiopharm 2008 **51** (8) 308-313

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Ohtake Y, Maruko A, Satoh S, Ohkubo Y// Tohoku Pharmaceut Univ, Dept Radiopharm, 4-4-1 Komatsushima, Aoba ku, Sendai, Miyagi 981 8558, Japan
Appl Radiat Isot 2008 **66** (9) 1245-1249
The uptake of ^{111}In in the liver and bone marrow of partially hepatectomized and venesectioned rats

Ozdemir E, Karabacak NI, Degertekin B, Cirak M, Dursun A, Engin D, Unal S, Unlu M// 444 Sok 12/24 Umitkoy, Ankara, Turkey
Ann Nucl Med 2008 **22** (7) 611-616

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Tong KI, Yamamoto M*, Tanaka T// *Tohoku Univ, Dept Med Biochem, Sendai, Miyagi 980 8575, Japan

J Biomol NMR 2008 **42** (1) 59-67

A simple method for amino acid selective isotope labeling of recombinant proteins in *E. coli*

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Brown S, Bailey DL, Willows K, Baldock C// Univ Sydney, Inst Med Phys, Sydney, NSW 2006, Australia

Appl Radiat Isot 2008 **66** (9) 1206-1212

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Stabin MG// Vanderbilt Univ, Dept Radiol & Radiol Sci, 1161 21st Ave Sth, Nashville, Tn 37232, USA

J Nucl Med 2008 **49** (9) 1555-1563

Radiopharmaceuticals for nuclear cardiology: Radiation dosimetry, uncertainties, and risk

Stollman TH, Scheer MGW*, Leenders WPJ, Verrijp KCN, Soede AC, Oyen WJG, Ruers TJM, Boerman OC// *Radboud Univ Nijmegen Med Ctr, Dept Surg, POB 9101, NL-6500 HB Nijmegen, The Netherlands

Int J Cancer 2008 **122** (10) 2310-2314

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Tanaka K, Fukase K// Osaka Univ, Grad Sch Sci, Dept Chem, 1-1 Machikaneyama, Osaka 560 0043, Japan

Mini Rev Org Chem 2008 **5** (3) 153-162

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J Nucl Med 2008 **49** (8) 1270-1276

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Benard F, Ahmed N, Beauregard JM, Rousseau J, Aliaga A, Dubuc C, Croteau E, Van Lier JE// Univ Sherbrooke, Dept Nucl Med & Radiobiol, Sherbrooke Mol Imaging Ctr, Sherbrooke, Quebec, Canada J1H 5N4

Eur J Nucl Med Mol Imaging 2008 **35** (8) 1473-1479

^{18}F fluorinated estradiol derivatives for oestrogen receptor imaging: Impact of substituents, formulation and specific activity on the biodistribution in breast tumour-bearing mice

Boucek JA, Francis RJ, Jones CG, Khan N, Turlach BA, Green AJ// Sir Charles Gairdner Hosp, WA PET Serv, Verdun St, Nedlands, WA 6009, Australia

Phys Med Biol 2008 **53** (16) 4213-4230

Assessment of tumor response with ^{18}F -fluorodeoxyglucose positron emission tomography using three-dimensional measures compared to SUVmax - A phantom study

Cao QZ, Li ZB, Chen K, Wu ZH, He LN, Neamati N, Chen XY// *Stanford Univ Sch Med, Dept Radiol, MIPS, 1201 Welch Rd, Stanford, Ca 94305, USA

Eur J Nucl Med Mol Imaging 2008 **35** (8) 1489-1498

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Chen CJ, Lee BF, Yao WJ, Cheng LL, Wu PS, Chu CL, Chiu NT// *Natl Cheng Kung Univ Med Ctr, Dept Nucl Med, 138 Sheng Li Rd, Tainan 704, Taiwan

Am J Roentgenol 2008 **191** (2) 475-479

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Nucl Med Commun 2008 **29** (7) 614-622

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Dence CS, Ponde DE, Welch MJ, Lewis JS// *Washington Univ Sch Med, Mallinckrodt Inst Radiol, Alvin J Siteman Canc Ctr, St Louis, Mo 63110, USA

Nucl Med Biol 2008 **35** (6) 713-720

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J Nucl Med 2008 **49** (7) 1155-1161

The potential of a radiosensitive intracerebral probe to monitor ^{18}F -MPPF binding in mouse hippocampus *in vivo*

Ettlinger DE, Hausler D, Wadsak W, Girschele F, Sindelar KM, Mien LK, Ungersbock J, Viernstein H, Kletter K, Dudczak R, Mitterhauser M// *Med Univ Vienna, Dept Nucl Med, AT-1090 Vienna, Austria

Nucl Med Biol 2008 **35** (4) 475-479

Metabolism an autoradiographic evaluation of [^{18}F]FE@CIT: A comparison with [^{123}I]β-CIT and [^{123}I]FP-CIT

Gao YJ, Kuwabara H, Spivak CE, Xiao YX, Kellar K, Ravert HT, Kumar A, Alexander M, Hilton J, Wong DF, Dannals RF, Horti AG// *Johns Hopkins Univ, Dept Radiol, Div Nucl Med, 600 Nth Wolfe St, Baltimore, Md 21287, USA

J Med Chem 2008 **51** (15) 4751-4764

Discovery of (-)-7-methyl-2-*exo*-[3'-(6-[^{18}F]fluoropyridin-2-yl)-5'-pyridinyl]-7-azabicyclo[2.2.1]heptane, a radiolabeled antagonist for cerebral nicotinic acetylcholine receptor ($\alpha 4\beta 2$ -nAChR) with optimal positron emission tomography imaging properties

Goffin K, Bormans G, Casteels C, Bosier B, Lambert DM, Grachev ID, Van Paesschen W, Van Laere K// Univ Hosp Leuven Gasthuisberg, Div Nucl Med, Herestr 49, BE-3000 Louvain, Belgium

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An *in vivo* [^{18}F]MK-9470 microPET study of type 1 cannabinoid receptor binding in Wistar rats after chronic administration of valproate and levetiracetam

Hautzel H, Sander O, Heinzel A, Schneider M, Muller HW// Res Ctr Julich, Dept Nucl Med KME, Leo Brandt Str, DE-52428 Julich, Germany

J Nucl Med 2008 **49** (7) 1107-1113

Assessment of large-vessel involvement in giant cell arteritis with ^{18}F FDG PET: Introducing an ROC-analysis-based cutoff ratio

Herzog H, Elmenhorst D, Winz O, Bauer A// Inst Neurosci & Biophys-Med, Forschungszentrum Julich GmbH, DE-52425 Julich, Germany

Eur J Nucl Med Mol Imaging 2008 **35** (8) 1499-1506

Biodistribution and radiation dosimetry of the A_1 adenosine receptor ligand ^{18}F -CPPFX determined from human whole-body PET

Kesner AL, Hsueh WA, Czernin J, Padgett H, Phelps ME, Silverman DHS// UCLA Med Ctr, Ahmanson Biol Imaging Division, Los Angeles, Ca 90024, USA

Mol Imaging Biol 2008 **10** (6) 341-348

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Kung MP, Hou C, Lieberman BP, Oya S, Ponde DE, Blankemeyer E, Skovronsky D, Kilbourn MR, Kung HF// *Univ Pennsylvania, Dept Radiol, 3700 Market St, Philadelphia, Pa 19104, USA

J Nucl Med 2008 **49** (7) 1171-1176

In vivo imaging of beta-cell mass in rats using ^{18}F -FP-(+)-DTBZ: A potential PET ligand for studying diabetes mellitus

Lan XL, Zhang YX*, Wu ZJ, Jia Q, Wei H, Gao ZR// *Huazhong Univ Sci & Technol, Union Hosp, Tongji Med Coll, CN-430022 Wuhan, Peoples Rep China

Clin Radiol 2008 **63** (7) 756-764

The value of dual time point ^{18}F FDG PET imaging for the differentiation between malignant and benign lesions

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Nucl Med Biol 2008 **35** (5) 549-559

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Nucl Med Commun 2008 **29** (8) 741-747

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Nucl Med Commun 2008 **29** (8) 686-689

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Clin Toxicol 2008 **46** (8) 711-715

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Zhao M, Li ZX, Bugenhagen S// Med Coll Wisconsin, Dept Biophys, 8701 Watertown Plank Rd, Milwaukee, WI 53226, USA

J Nucl Med 2008 **49** (8) 1345-1352

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Eur J Nucl Med Mol Imaging 2008 **35** (7) 1350-1356

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Eur J Nucl Med Mol Imaging 2008 **35** (9) 1636-1641

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Farmakis G, Brandau W, Hellwig D, Wollenweber F, Schaefer A, Kirsch CM, Samnick S// Univ Saarland Med Ctr, Dept Nucl Med, DE-66421 Homburg, Germany

Clin Nucl Med 2008 **33** (6) 441-442

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Ann Nucl Med 2008 **22** (5) 363-369

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Nucl Med Biol 2008 **35** (5) 543-548

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Nucl Med Commun 2008 **29** (8) 724-729

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Pryma D, Divig C*// *Hosp Univ Pennsylvania, 3400 Spruce St, Donner 116, Philadelphia, Pa 19105, USA

Nucl Med Biol 2008 **35** (Suppl 1) S3-S8

Meta-iodobenzyl guanidine for detection and staging of neuroendocrine tumors

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Bonnitcha PD, Vavere AL, Lewis JS, Dilworth JR*// *Washington Univ Sch Med, Mallinckrodt Inst Radiol, Div Radiol Sci, St Louis, Mo 63110, USA

J Med Chem 2008 **51** (10) 2985-2991

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J Nucl Med 2008 **49** (8) 1371-1379

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J Nucl Med 2008 **49** (7) 1177-1182

An imaging comparison of ⁶⁴Cu-ATSM and ⁶⁰Cu-ATSM in cancer of the uterine cervix

10 Gallium

Decristoforo C, Hernandez Gonzalez I, Carlsen J, Rupprich M, Huisman M, Virgolini I, Wester HJ, Haubner R*// *Med Univ Innsbruck, Univ Klin Nukl Med, Anichstr 35, AT-6020 Innsbruck, Austria

Eur J Nucl Med Mol Imaging 2008 **35** (8) 1507-1515

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Li ZB, Chen K, Chen X*// *Stanford Univ Sch Med, Dept Radiol, MIPS, 1201 Welch Rd, Stanford, Ca 94305, USA

Eur J Nucl Med Mol Imaging 2008 **35** (6) 1100-1108

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Velikyan I, Beyer GJ, Bergstrom-Pettermann E, Johansen P, Bergstrom M, Langstrom B// GE Healthcare, GEMS PET Systems, Uppsala Appl Sci Lab, SE-75228 Uppsala, Sweden

Nucl Med Biol 2008 **35** (5) 529-536

The importance of high specific radioactivity in the performance of ⁶⁸Ga-labeled peptide

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Cornelissen B, McLarty K, Kersemans V, Reilly RM*// *Univ Toronto, Leslie Dan Fac Pharm, Dept Pharmaceut Sci, Toronto, Ontario, Canada M5S 3M2

Nucl Med Biol 2008 **35** (6) 645-653

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Good S, Walter MA, Waser B, Wang XJ, Muller-Brand J, Behe MP, Reubi JC, Maecke HR*// *Univ Basel Hosp, Div Radiol Chem, Petersgraben 4, CH-4031 Basel, Switzerland

Eur J Nucl Med Mol Imaging 2008 **35** (10) 1868-1877

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Nucl Med Biol 2008 **35** (4) 501-514

The fate of MAb-targeted (CdTe)_{125m}Te/ZnS nanoparticles *in vivo*

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Eur J Nucl Med Mol Imaging 2008 **35** (10) 1857-1867

Quantitative PET imaging of Met-expressing human cancer xenografts with ⁸⁹Zr-labelled monoclonal antibody DN30

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Allard E, Hindre F*, Passirani C, Lemaire L, Leparure N, Noiret N, Menei P, Benoit JP// *Univ Angers, INSERM U646, FR-49100 Angers, France

Eur J Nucl Med Mol Imaging 2008 **35** (10) 1838-1846

¹⁸⁸Re-loaded lipid nanocapsules as a promising radiopharmaceutical carrier for internal radiotherapy of malignant gliomas

Buchegger F, Press OW, Delaloye AB, Ketterer N// Univ Lausanne Hosp, Nucl Med Serv, CH-1011 Lausanne, Switzerland

Oncologist 2008 **13** (6) 657-667

Radiolabeled and native antibodies and the prospect of cure of follicular lymphoma (Review)

Capuani S, Porcari P, Fasano F, Campanella R, Maraviglia B// Univ Roma La Sapienza, Phys Dept, CNR-INFM CRS SOFT, IT-00185 Rome, Italy

Magn Reson Imaging 2008 **26** (7) 987-993

¹⁰B-editing ¹H detection and ¹⁹F MRI strategies to optimize boron neutron capture therapy

Caridad V, Arsenak M, Abad MJ, Martin R, Guillen N, Colmener LF, Taylor P*// *IVIC, Lab Patol Celular & Mol, Ctr Med Expt, Apartado 21827, VE-1020 Caracas A, Venezuela

Cancer Biother Radiopharm 2008 **23** (3) 371-375

Effective radiotherapy of primary tumors and metastasis with ¹⁸F-2-deoxy-2-fluoro-D-glucose in C57BL/6 mice

Chakraborty M, Gelbard A, Carrasquillo JA, Yu S, Mamede M, Paik CH, Camphausen K, Schlom J*, Hodge JW// *Nat Inst Hlth/NCI, Tumor Immunol & Biol Lab, Ctr Canc Res, 10 Center Dr, Rm 8B09, Bethesda, Md 20892, USA

Cancer Immunol Immunother 2008 **57** (8) 1173-1183

Use of radiolabeled monoclonal antibody to enhance vaccine-mediated antitumor effects

Chakraborty M, Wansley EK, Carrasquillo JA, Yu S, Paik CH, Camphausen K, Becker MD, Goeckeler WF, Schlom J*, Hodge JW// *Nat Inst Hlth/NCI, Tumor Immunol & Biol Lab, Ctr Canc Res, 10 Center Dr, Rm 8B09, Bethesda, Md 20892, USA

Clin Cancer Res 2008 **14** (13) 4241-4249

The use of chelated radionuclide (samarium-153-ethylenediaminetetra-methylenephosphonate) to modulate phenotype of tumor cells and enhance T cell-mediated killing

Chakraborty S, Das T, Sarma HD, Venkatesh M, Banerjee S*// *Bhabha Atomic Res Ctr, Radiopharmaceut Div, IN-400085 Mumbai, India

Appl Radiat Isot 2008 **66** (9) 1196-1205

Comparative studies of ¹⁷⁷Lu-EDTMP and ¹⁷⁷Lu-DOTMP as potential agents for palliative radiotherapy of bone metastasis

Chezal JM, Papon J, Labarre P, Lartigue C, Galmier MJ, Decombat C, Chavignon O, Maublant J, Teulade JC, Madelmont JC, Moins N*// *Univ Clermont 1, FR-63001 Clermont Ferrand, France

J Med Chem 2008 **51** (11) 3133-3144

Evaluation of radiolabeled (hetero)aromatic analogues of N-(2-diethyl-aminoethyl)-4-iodobenzamide for imaging and targeted radionuclide therapy of melanoma

Das T, Chakraborty S, Sarma HD, Banerjee S*// *Bhabha Atom Res Ctr, Radiopharmaceut Div, IN-400085 Mumbai, India

Radiochim Acta 2008 **96** (7) 427-433

A novel [¹⁰⁹Pd] palladium labeled porphyrin for possible use in targeted radiotherapy

Delpassand ES, Sims-Mourtada J, Saso H, Azhdarinia A, Ashoori F, Torabi F, Espenan G, Moore WH, Woltering E, Anthony L// Excel Diagnostics Imaging Clin, 9701 Richmond Ave, Houston, Tx 77042, USA

Cancer Biother Radiopharm 2008 **23** (3) 292-300

Safety and efficacy of radionuclide therapy with high-activity ¹¹¹In pentretotide in patients with progressive neuroendocrine tumors

Ferro-Flores G, Arteaga de Murphy C*// *Inst Nacl Ciencias Med & Nutr Salvador Zubiran, Vasco de Quiroga 15, MX-14000 Mexico City, DF, Mexico

Adv Drug Deliv Rev 2008 **60** (12) 1389-1401

Pharmacokinetics and dosimetry of ¹⁸⁸Re-pharmaceuticals (Review)

Hamoudeh M, Kamleh MA, Diab R, Fessi H*// *Univ Lyon, FR-69622 Villeurbanne, France

Adv Drug Deliv Rev 2008 **60** (12) 1329-1346

Radionuclides delivery systems for nuclear imaging and radiotherapy of cancer (Review)

Koenecke C, Hofmann M, Bolte O, Gielow P, Dammann E, Stadler M, Franzke A, Boemer AR, Eder M, Ganser A, Knapp W, Hertenstein B*// *Klinikum Bremen Mitte, St Jurgen Str 1, Bremen, Germany

Int J Hematol 2008 **87** (4) 414-421

Radioimmunotherapy with [¹⁸⁸Re]-labelled anti-CD66 antibody in the conditioning for allogeneic stem cell transplantation for high-risk acute myeloid leukemia

Medeiros-Neto G, Marui S, Knobel M*// *Univ Sao Paulo, Hosp Clin, Div Endocrinol & Metab, Thyroid Unit, BR-05403-900 Sao Paulo, Brazil

Endocrine 2008 **33** (2) 109-117

An outline concerning the potential use of recombinant human thyrotropin for improving radioiodine therapy of multinodular goiter

Miao YB, Quinn TP// Univ New Mexico, Coll Pharm, 2502 Marble NE, Albuquerque, NM 87131, USA

Crit Rev Oncol Hematol 2008 **67** (3) 213-228

Peptide-targeted radionuclide therapy for melanoma (Review)

Miederer M, Scheinberg DA, McDevitt MR*// *Mem Sloan Kettering Canc Ctr, 1275 York Ave, Box 231, New York, NY 10021, USA

Adv Drug Deliv Rev 2008 **60** (12) 1371-1382

Realizing the potential of the actinium-225 radionuclide generator in targeted alpha particle therapy applications (Review)

Nayak TK, Atcher RW, Prossnitz ER, Norenberg JP*// *Univ New Mexico, Coll Pharm, Albuquerque, NM 87131, USA

Nucl Med Biol 2008 **35** (6) 673-678

Enhancement of somatostatin-receptor-targeted ¹⁷⁷Lu-[DOTA₀-Tyr₃]-octreotide therapy by gemcitabine pretreatment-mediated receptor uptake, up-regulation and cell cycle modulation

Pandey U, Saxena SK, Sarma HD, Tandon P, Ram R, Samuel G, Dash A, Venkatesh M*// *Bhabha Atom Res Ctr, Radiopharmaceut Div, IN-400094 Mumbai, India

Nucl Med Commun 2008 **29** (8) 717-723

Bioevaluation studies of ³²P incorporated mould brachytherapy sources for potential application in treatment of superficial tumors

Pandit-Taskar N, O'Donoghue JA, Morris MJ, Wills EA, Schwartz LH, Gonen M, Scher HI, Larson SM, Divgi CR// Mem Sloan Kettering Canc Ctr, Dept Radiol, Nucl Med Serv, 1275 York Ave, Box 77, New York, NY 10021, USA

J Nucl Med 2008 **49** (7) 1066-1074

Antibody mass escalation study in patients with castration-resistant prostate cancer using ¹¹¹In-J591: Lesion detectability and dosimetric projections for ⁹⁰Y radioimmunotherapy

Ridone S, Bonardi ML, Groppi F, Martinotti A, Alfassi ZB// ENEA, Italian Natl Agcy New Technol Energy & Environm, Radiat Protect Inst, Res Ctr Saluggia, IT-13040 Saluggia, VC, Italy

J Radioanal Nucl Chem 2008 **277** (1) 117-123

Paper radiochromatography for evaluation of radiochemical purity and stability of [¹⁸⁶Re]Re-HEDP in biological samples after human administration

Sofou S// Polytech Univ, Othmer Jacobs Dept Chem & Biol Engr, Lab Drug Delivery Syst, 6 Metrotech Ctr, Brooklyn, NY 11201, USA

Int J Nanomedicine 2008 **3** (2) 181-199

Radionuclide carriers for targeting of cancer (Review)

Zhou D, Sharp TL, Fettig NM, Lee H, Lewis JS, Katzenellenbogen JA, Welch MJ*// *Washington Univ Sch Med, Mallinckrodt Inst Radiol, St Louis, Mo 63110, USA

Nucl Med Biol 2008 **35** (6) 655-663

Evaluation of a bromine-76-labeled progestin 16 α ,17 α -dioxolane for breast tumor imaging and radiotherapy: *In vivo* biodistribution and metabolic stability studies

15 Environmental

Farghaly M, El-Maghraby S*// *Natl Res Ctr, Dept Appl Organ Chem, Giza, Egypt

Food Chem Toxicol 2008 **46** (9) 3111-3115

Toxicological evaluation and bioavailability of ¹⁴C-fenitrothion bound residues on soybeans towards experimental animals

Itoh N, Numata M, Aoyagi Y, Yarita T// Natl Inst Advanced Ind Sci & Technol, Natl Metrol Inst Japan, 1-1-1 Umezono, Tsukuba, Ibaraki 305 8563, Japan

Anal Sci 2008 **24** (9) 1193-1197

Accurate quantification of polycyclic aromatic hydrocarbons in environmental samples using deuterium-labeled compounds as internal standards

Jehlich N, Schmidt F, Hartwich M, Von Bergen M*, Richnow HH, Vogt C// *Helmholtz Ctr Environm Res - UFZ, Dept Proteomics, Permoserstr 15, DE-04318 Leipzig, Germany

Rapid Commun Mass Spectrom 2008 **22** (18) 2889-2897

Incorporation of carbon and nitrogen atoms into proteins measured by protein-based stable isotope probing (Protein-SIP)

Jurkin D, Wiercinski B// Tech Univ Munich, Inst Radiochem, Walther Meissner Str 3, DE-85748 Garching, Germany

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Wang HZ, Wu JJ, Yates S, Gan J// Zhejiang Univ, Inst Soil & Water Resource & Environm Science, CN-310029 Hangzhou, Zhejiang, Peoples Rep China

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16 Analytical techniques

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Burke DG, Mackay LG// Natl Measurement Inst, 1 Saukin St, Pymble, NSW 2073, Australia

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Cervino C, Asam S, Knopp D, Rychlik M*, Niessner R// *Tech Univ Munich, Lichtenbergstr 4, DE-85748 Garching, Germany

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Collier TS, Hawkrige AM, Georgianna DR, Payne GA, Muddiman DC*// *Nth Carolina State Univ, Dept Chem, WM Keck FT ICR Mass Spectrometry Lab, Box 8204, Raleigh, NC 27695, USA

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Damay F, Rodriguez-Carvajal J, Andre D, Dunstetter F, Swarc H// CEA-Saclay, CNRS UMR12, Laboratoire Leon Brillouin, FR-91191 Gif-sur-Yvette, France

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Davis KL, Waldeck DH// Univ Pittsburgh, Dept Chem, Pittsburgh, Pa 15260, USA

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Gao Q, Xue S, Shaffer SA, Doneanu CE, Goodlett DR, Nelson SD*// *Univ Washington, Department Medicinal Chem, Box 357610, Seattle, Wa 98195, USA

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Minimize the detection of false positives by the software program DetectShift for ¹⁸O-labeled cross-linked peptide analysis

Gu XB, Zhang FT, Kaiser RI*// *Univ Hawaii Manoa, Dept Chem, Honolulu, Hi 96822, USA

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Klepach T, Carmichael I, Serianni AS*// *Univ Notre Dame, Dept Chem & Biochem, Notre Dame, In 46556, USA

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¹³C-labeled *N*-acetyl-neuraminic acid in aqueous solution: Detection and quantification of acyclic keto, keto hydrate, and enol forms by ¹³C NMR spectroscopy

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Lundstrom P, Hansen DF, Kay LE*// *Univ Toronto, Dept Med Genet, Toronto, Ontario, Canada M5S 1A8

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Muresan AZ, Thamyongkit P, Diers JR, Holten D*, Lindsey JS, Bocian DF// *Washington Univ, Dept Chem, St Louis, Mo 63130, USA

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O'Halloran S, Llett KF// Pathwest Lab Med, Locked Bag 2009, Nedlands, WA, Australia

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Perez Locas C, Yaylayan VA*// *McGill Univ, Dept Food Sci & Agric Chemistry, 21 111 Lakeshore, Ste Anne de Bellevue, Quebec, Canada H9X 3V9

J Agric Food Chem 2008 **56** (15) 6717-6723

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Ronsein GE, Oliveira MCB, Miyamoto S, Medeiros MHG, Di Mascio P*// *Universidade Sao Paulo, Inst Quim, Dept Bioquim, BR-01498 Sao Paulo, Brazil

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Dissociative recombination of fully deuterated protonated acetonitrile, CD₃CND⁺: Product branching fractions, absolute cross section and thermal rate coefficient

Wu HY, Huang FY, Chang YC, Hseih MC, Liao PC*// *National Cheng Kung Univ, Coll Med, Dept Environm & Occupat Hlth, Tainan 70101, Taiwan

Anal Chem 2008 **80** (16) 6178-6189

Strategy for determination of *in vitro* protein acetylation sites by using isotope-labeled acetyl coenzyme A and liquid chromatography-mass spectrometry