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Current awareness in labelled compounds and radiopharmaceuticals

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1 Radionuclide production

Bokhari TH, Mushtaq A*, Khan IU// *Pakistan Institute Nuclear Science & Technology, Isotope Production Division, Post Office Nilore, Islamabad, Pakistan

Appl Radiat Isot 2009 **67** (1) 100-102

Concentration of ^{68}Ga via solvent extraction

Chattopadhyay S, Das SS, Das MK, Goomer NC// Variable Energy Cyclotron Ctr, Radiopharmaceut Lab, BRIT, Reg Ctr, 1/AF Bidhan Nagar, IN-700064 Kolkata, India

Appl Radiat Isot 2008 **66** (12) 1814-1817

Recovery of $^{99\text{m}}\text{Tc}$ from $\text{Na}_2[^{99}\text{Mo}]\text{MoO}_4$ solution obtained from reactor-produced (n, γ) ^{99}Mo using a tiny Dowex-1 column in tandem with a small alumina column

El-Azony KM, Suzuki K, Fukumura T, Szelecsenyi F, Kovacs Z// Natl Inst Radiol Sci, Dept Med Imaging, Radiopharmaceut Chem Sect, Inage ku, Chiba 263 8555, Japan

Radiochim Acta 2008 **96** (12) 763-769

Proton induced reactions on natural tellurium up to 63 MeV: Data validation and investigation of possibility of ^{124}I production

Sadeghi M, Aboudzadeh M, Zali A, Mirzaii M, Bolourinovin F// Agric Med & Ind Res Sch, Nuclear Medicine Research Group, POB 31485-498, Tehran, Iran

Appl Radiat Isot 2009 **67** (1) 7-10

Radiochemical studies relevant to ^{86}Y production via $^{86}\text{Sr}(p,n)^{86}\text{Y}$ for PET imaging

Sadeghi M, Amiri M, Rowshanfarzad P, Gholamzadeh Z, Ensaf M// Agric Med & Ind Res Sch, Nuclear Medicine Research Group, POB 31485-498, Tehran, Iran

Nukleonika 2008 **53** (4) 155-160

Thick zinc electrodeposition on copper substrate for cyclotron production of ^{64}Cu

Sadeghi M, Shirazi B// Agric Med & Ind Res Sch, Nuclear Medicine Research Group, POB 31485-498, Tehran, Iran

Appl Radiat Isot 2008 **66** (12) 1810-1813

Extraction separation of no-carrier-added ^{103}Pd from irradiated Rh target, Cu and Zn using α -furyldioxime, dimethylglyoxime and α -benzildioxime

Wunderlich G, Hartmann H, Andreeff M, Kotzerke J// Univ Hosp, Dept Nucl Med, Fetscherstr 74, DE-01307 Dresden, Germany

Appl Radiat Isot 2008 **66** (12) 1876-1880

A semi-automated system for concentration of rhenium-188 for radiopharmaceutical applications

2 Labelled compound synthesis

Andersson J, Truong P, Halldin C// Karolinska Univ Hosp, Karolinska Inst, Dept Clin Neurosci, Psychiat Sect, SE-17176 Stockholm, Sweden

Appl Radiat Isot 2009 **67** (1) 106-110

In-target produced [^{11}C]methane: Increased specific radioactivity

Berrang BD, Lewin AH*, Carroll FI// *Res Triangle Inst, Ctr Organ & Med Chem, POB 12194, Res Triangle Park, NC 27709, USA

J Label Compound Radiopharm 2008 **51** (14) 440-443

Preparation of carbon-14 labeled (3R)-7-hydroxy-N-(1S)-1-[[[(3R,4R)-4-(3-hydroxyphenyl)-3,4-dimethyl-1-piperidinyl]methyl]-2-methylpropyl]-1,2,3,4-tetrahydroisoquinolinecarboxamide (JDTic)

Bourdier T, Fookes CJR, Pham TQ, Greguric I, Katsifis A*// *Australian Nucl Sci & Technol Org, Radiopharmaceut Res Inst, PMB 1, Menai, NSW 2234, Australia

J Label Compound Radiopharm 2008 **51** (11) 369-373

Synthesis and stability of S-(2-[^{18}F]fluoroethyl)-L-homocysteine for potential tumour imaging

Bourgeois M, Guerard F, Alliot C, Mougins-Degraef M, Rajerison H, Saec PRL, Gestina JF, Chereil M, Barbet J, Faivre-Chauvet A// Univ Nantes, Inst Biol, U892, Ctr Rech Cancerol Nantes-Angers, 9 Quai Moncoussu, FR-44093 Nantes 1, France

J Label Compound Radiopharm 2008 **51** (11) 379-383

Feasibility of the radioastatination of a monoclonal antibody with astatine-211 purified by wet extraction

Brandt SD, Tirunaryanapuram SS, Freeman S, Dempster N, Barker SA, Daley PF, Cozzi NV, Martins CPB// Liverpool John Moores Univ, Sch Pharm & Chem, Byrom St, Liverpool L3 3AF, England

J Label Compound Radiopharm 2008 **51** (14) 423-429

Microwave-accelerated synthesis of psychoactive deuterated N,N-dialkylated [$\alpha,\alpha,\beta,\beta$ - d_4]-tryptamines

Chen ZP, Wang SP, Li XM, Liu CY, Tang J, Cao GX, Luo SN, Zhang LF, Jin J*// *Jiangnan Univ, Sch Med & Pharm, CN-214122 Wuxi, PR China

Appl Radiat Isot 2008 **66** (12) 1881-1885

A one-step automated high-radiochemical-yield synthesis of ^{18}F -FECNT from mesylate precursor

Cheng K, Saha B, Mahadevan A, Razdan RK, Kunos G, Jacobson AE, Rice KC*// *NIH/NIDA/NIAAA/DHHS, Chem Biol Res Branch, Drug Design & Synth Sect, Rockville, Md 20852, USA

J Label Compound Radiopharm 2008 **51** (12) 389-390

Synthesis of 2-(5Z,8Z,11Z,14Z)-icosa-5,8,11,14-tetraenamidoethyl- d_4 dihydrogen phosphate, tetra-deuterated pAEA

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.

- Dolle F, Hinnen F, Damont A, Kuhnast B, Fookes C, Pham T, Tavitian B, Katsifis A// CEA, Serv Hosp Frederic Joliot, Inst Imagerie Biomed, 4 Pl Gen Leclerc, FR-91406 Orsay, France
J Label Compound Radiopharm 2008 **51** (14) 435-439
 Radiosynthesis of [¹⁸F]PBR111, a selective radioligand for imaging the translocator protein (18 kDa) with PET
- Forsback S, Eskola O, Haaparanta M, Bergman J, Solin O// Turku PET Ctr, Radiopharmaceut Chem Lab, Porthaninkatu 3, FI-20500 Turku, Finland
Radiochim Acta 2008 **96** (12) 845-848
 Electrophilic synthesis of 6[¹⁸F]fluoro-L-DOPA using post-target produced [¹⁸F]F₂
- Forsterova M, Petrik M, Laznickova A*, Laznicek M, Hermann P, Lukes I, Melichar F// *Univ Karlova/Charles Univ, Fac Sci, Dept Inorgan Chem, Hlavova 2030, CZ-12840 Prague 2, Czech Republic
Appl Radiat Isot 2009 **67** (1) 21-29
 Complexation and biodistribution study of ¹¹¹In and ⁹⁰Y complexes of bifunctional phosphinic acid analogs of H₂dota
- Fukumura T, Takei M, Suzuki K// Natl Inst Radiol Sci, Mol Probe Grp, Mol Imaging Ctr, 4-9-1 Anagawa, Inage ku, Chiba 263 8555, Japan
Appl Radiat Isot 2008 **66** (12) 1905-1909
 Synthesis and biodistribution of ^{34m}Cl-labeled 2-chloro-2-deoxy-D-glucose: A major impurity in [¹⁸F]FDG injection
- Gao MZ, Wang M, Miller KD, Sledge GW, Zheng QH// *Indiana Univ Sch Med, Dept Radiol, 1345 West 16th St, Indianapolis, In 46202, USA
Eur J Med Chem 2008 **43** (10) 2211-2219
 Synthesis and preliminary biological evaluation of new carbon-11 labeled tetrahydroisoquinoline derivatives as SERM radioligands for PET imaging of ER expression in breast cancer
- Gomez-Vallejo V, Llop J*// *CIC biomaGUNE, Parque Tecnol San Sebastian, P Miramon 182, Edifici Empresarial C, ES-20009 San Sebastian, Guipuzcoa, Spain
Appl Radiat Isot 2009 **67** (1) 111-114
 Specific activity of [¹¹C]CH₃I synthesized by the "wet" method: Main sources of non-radioactive carbon
- Green AEC, Harrington LE, Valliant JF*// *McMaster Univ, Dept Chem & Med Phys, 1280 Main St West, Hamilton, Ontario, Canada L8S 4M1
Can J Chem 2008 **86** (11) 1063-1069
 Carborane-carbohydrate derivatives - Versatile platforms for developing targeted radiopharmaceuticals
- Guo YH, Chen XJ, Jia HM, Ji XM, Liu BL*// *Beijing Normal Univ, Coll Chem, MoE Key Lab Radiopharmaceuticals, CN-100875 Beijing, Peoples Rep China
Appl Radiat Isot 2008 **66** (12) 1804-1809
 Synthesis and biological evaluation of one novel technetium-99m-labeled nitroquiazine derivative as an imaging agent for serotonin transporter
- Ho JZ, Elmore CS, Braun MP// Merck Res Labs, Dept Process Res, 126 East Lincoln Ave, POB 2000, RY80R-104, Rahway, NJ 07065, USA
J Label Compound Radiopharm 2008 **51** (12) 399-403
 Synthesis of a ¹⁴C-labeled FPTase inhibitor via a Pd-catalyzed cyanation with Zn (¹⁴CN)₂ and via bromo[¹⁴C]acetic acid
- Hofling SB, Hultsch C, Wester HJ, Heinrich MR*// *Tech Univ Muich, DE-85747 Garching, Germany
Tetrahedron 2008 **64** (52) 11846-11851
 Radiochemical ¹⁸F-fluoroarylation of unsaturated α-, β- and γ-amino acids, application to a radiolabelled analogue of baclofen
- Indurugalla D, Bennet AJ*// *Simon Fraser Univ, Dept Chem, 8888 University Dr, Burnaby, Brit Columbia, Canada V5A 1S6
Can J Chem 2008 **86** (11) 1005-1009
 Chemoenzymatic synthesis of ring ¹⁸O-labeled sialic acid
- Inkster JAH, Guerin B, Ruth TJ, Adam MJ// TRIUMF, 4004 Wesbrook Mall, Vancouver, Brit Columbia, Canada V6T 2A3
J Label Compound Radiopharm 2008 **51** (14) 444-452
 Radiosynthesis and bioconjugation of [¹⁸F]FPy5yne, a prosthetic group for the ¹⁸F labeling of bioactive peptides
- Keller M, Pop N, Hutzler C, Beck-Sickinger AG, Bernhard G, Buschauer A*// *Univ Regensburg, Fac Chem & Pharm, Dept Pharmaceut Med Chem 2, Universitätsstr 31, DE-93053 Regensburg, Germany
J Med Chem 2008 **51** (24) 8168-8172
 Guanidine-acylguanidine bioisosteric approach in the design of radioligands: Synthesis of a tritium-labeled N^G-propionylargininamide ([³H]-UR-MK114) as a highly potent and selective neuropeptide Y Y₁ receptor antagonist
- Knudsen GM, Davis BM, Deb SK, Loethen Y, Gudihal R, Perera P, Ben-Amotz D, Davison VJ*// *575 Stadium Mall Dr, West Lafayette, In 47907, USA
Bioconjug Chem 2008 **19** (11) 2212-2220
 Quantification of isotope encoded proteins in 2D gels using surface enhanced resonance Raman
- Komarapuri S, Krishnan K, Covey DF*// *Washington Univ Sch Med, Dept Dev Biol, Campus Box 8103, 660 Sth Euclid Ave, St Louis, Mo 63110, USA
J Label Compound Radiopharm 2008 **51** (14) 430-434
 Synthesis of 19-trideuterated *ent*-testosterone and the GABA_A receptor potentiators *ent*-androsterone and *ent*-etiocholanolone
- Krasikova RN, Andersson J*, Truong P, Nag S, Shchukin EV, Halldin C// *Karolinska Hosp, Karolinska Inst, Dept Clin Neurosci, Psychiat Sect, SE-17176 Stockholm, Sweden
Appl Radiat Isot 2009 **67** (1) 73-78
 A fully automated one-pot synthesis of [carbonyl-¹¹C]WAY-100635 for clinical PET applications
- Kristiansen KA, Ballance S, Potthast A, Christensen BE// Norwegian Univ Sci & Technol, Dept Biotechnol, NOBIPOL, NO-7491 Trondheim, Norway
Carbohydr Polym 2009 **76** (2) 196-205
 An evaluation of tritium and fluorescence labelling combined with multi-detector SEC for the detection of carbonyl groups in polysaccharides
- Lahiri S, Roy K, Sen S// Saha Inst Nucl Phys, Chem Sci Div, 1/AF Bidhannagar, IN-700064 Kolkata, India
Appl Radiat Isot 2008 **66** (12) 1901-1904
 Complexation study on no-carrier-added astatine with insulin: A candidate radiopharmaceutical
- Latli B// Boehringer Ingelheim Pharmaceuticals Inc, Dept Chem Dev, Res & Dev Ctr, 900 Ridgebury Rd, POB 368, Ridgefield, Ct 06877, USA
J Label Compound Radiopharm 2008 **51** (12) 405
 Addendum to: Synthesis of tritium-labeled bilirubin (Letter)
- Leppala E, Pohjoispa M, Koskimies J, Wahala K*// *Univ Helsinki, Organ Chem Lab, Dept Chem, POB 55, FI-00014 Helsinki, Finland
J Label Compound Radiopharm 2008 **51** (13) 407-412
 Synthesis of new deuterium-labelled lignanolactones
- Lin RS, Liu N*, Yang YY, Li B, Liao JL, Jin JN*// *Sichuan Univ, Inst Nucl Sci & Technol, MoE Key Lab Radiat Phys & Technol, CN-610064 Chengdu, Peoples Rep China
Appl Radiat Isot 2009 **67** (1) 83-87
 Radioiodination of protein using 2,3,5,6-tetrafluorophenyl 3-(*nido*-carboranyl) propionate (TCP) as a potential bi-functional linker: Synthesis and bio-distribution in mice
- Llop J, Gomez-Vallejo V, Bosque M, Quincoces G, Penuelas I// CIC biomaGUNE, Parque Tecnol San Sebastian, P Miramon 182, Edifici Empresarial C, ES-20009 San Sebastian, Guipuzcoa, Spain
Appl Radiat Isot 2009 **67** (1) 95-99
 Synthesis of S-[¹³N]nitrosoglutathione (¹³N-GSNO) as a new potential PET imaging agent
- McDonagh AF// Univ Calif San Francisco, Dept Gastroenterol, San Francisco, Ca 94143, USA
J Label Compound Radiopharm 2008 **51** (12) 404
 Addendum to: Synthesis of tritium-labeled bilirubin (Letter)
- Muona M, Aranko AS, Iwai H*// *Univ Helsinki, Inst Biotechnol, Res Program Struct Biol & Biophys, POB 65, FI-00014 Helsinki, Finland
Chembiochem 2008 **9** (18) 2958-2961
 Segmental isotopic labelling of a multidomain protein by protein ligation by protein *trans*-splicing
- Pajak M, Kanska M*// *Univ Warsaw, Dept Chem, Pasteur 1 Str, PL-02093 Warsaw, Poland
J Radioanal Nucl Chem 2008 **279** (2) 455-458
 Enzymatic synthesis of dopamine ring labeled with hydrogen isotopes
- Riss PJ, Rosch F// Johannes Gutenberg Univ Mainz, Inst Nucl Chem, Fritz Strassmann Weg 2, DE-55128 Mainz, Germany
Org Biomol Chem 2008 **6** (24) 4567-4574
 A convenient chemo-enzymatic synthesis and ¹⁸F-labelling of both enantiomers of *trans*-1-toluenesulfonyloxymethyl-2-fluoromethyl-cyclopropane
- Ross TL, Honer M, Lam PYH, Mindt TL, Groehn V, Schibli R, Schubiger PA, Ametamey SM// ETH, PSI, Ctr Pharmaceut Sci, Anim Imaging Ctr PET, CH-8093 Zurich, Switzerland
Bioconjug Chem 2008 **19** (12) 2462-2470
 Fluorine-18 click radiosynthesis and preclinical evaluation of a new ¹⁸F-labeled folic acid derivative
- Sadeghpour H, Jalilian AR*, Shafiee A, Akhlaghi M, Miri R, Mirzaei M// *AMIRS, Nucl Med Res Grp, POB 31585-4395, Karaj, Iran
Radiochim Acta 2008 **96** (12) 849-857
 Radiosynthesis of dimethyl-2-[¹⁸F]-fluoromethyl)-6-methyl-4-(2-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate for L-type calcium channel
- Sheepwash EE, Rowntree PA, Schwan AL*// *Univ Guelph, Dept Chem, Guelph, Ontario, Canada N1G 2W1
J Label Compound Radiopharm 2008 **51** (12) 391-398
 The preparation of three new partially deuterated hexadecanethiols for applications in surface chemistry

- Shetty HU, Zoghbi SS, Simeon FG, Liow JS, Brown AK, Kannan P, Innis RB, Pike VW// NIH/NIMH, Mol Imaging Branch, PET Radiopharmaceut Sci, Bldg 10, Rm B3 C351, 10 Center Dr, MSC 1003, Bethesda, Md 20892, USA
J Pharmacol Exp Ther 2008 **327** (3) 727-735
Radiodefluorination of 3-fluoro-5-(2-(2-[¹⁸F](fluoromethyl)-thiazol-4-yl) ethynyl)benzotrile ([¹⁸F]SP203), a radioligand for imaging brain metabotropic glutamate subtype-5 receptors with positron emission tomography, occurs by glutathionylation in rat brain
- Shukla G, Tiwari AK, Kumar N, Sinha D, Mishra P, Chandra H, Mishra AK*// *INMAS, Div Cyclotron & Radiopharmaceut Sci, Brig SK Mazumdar Rd, Timarpur, IN-110054 Delhi, India
Cancer Biother Radiopharm 2008 **23** (5) 571-579
Polyethylene glycol conjugates of methotrexate and melphalan: Synthesis, radiolabeling and biologic studies
- Smith G, Glaser M, Perumal M, Nguyen QD, Shan B, Arstad E, Aboagye EO*// *Imperial Coll London, Hammersmith Hosp, Fac Med, Mol Therapy Grp, Du Cane Rd, London W12 0NN, England
J Med Chem 2008 **51** (24) 8057-8067
Design, synthesis, and biological characterization of a caspase 3/7 selective isatin labeled with 2-[¹⁸F]fluoroethylazide
- Spivey AC, Martin LJ, Tseng CC, Ellames GJ, Kohler AD// Imperial Coll London, Dept Chem, Sth Kensington Campus, London SW7 2AZ, England
Org Biomol Chem 2008 **6** (22) 4093-4095
A strategy for isotope containment during radiosynthesis-devolatilisation of bromobenzene by fluoros-tagging-Ir-catalysed borylation en route to the 4-phenylpiperidine pharmacophore
- Stehouwer JS, Jarkas N, Zeng F, Voll RJ, Williams L, Camp VM, Malveaux EJ, Votaw JR, Howell L, Owens MJ, Goodman MM*// *Emory Univ, Dept Radiol, 1364 Clifton Rd NE, Atlanta, Ga 30322, USA
J Med Chem 2008 **51** (24) 7788-7799
Synthesis, radiosynthesis, and biological evaluation of fluorine-18-labeled 2 β -carbo(fluoroalkoxy)-3 β -(3'-(Z)-halothenyl)phenyl)nortropans: Candidate radioligands for *in vivo* imaging of the serotonin transporter with positron emission tomography
- Strom P, Malmquist J// Harvard Med Sch, Beth Israel Deaconess Med Ctr, Ctr Life Sci Bldg, 3 Blackfan Circle, Boston, Ma 02115, USA
J Label Compound Radiopharm 2008 **51** (13) 419-421
[5-¹⁴C]-4-methyltriazolepyridines via facile preparation of methyl-[¹⁴C]-isothiocyanate
- Takahashi M, Seki K, Nishijima K, Zhao S, Kuge Y, Tamaki N, Ohkura K*// *Hlth Sci Univ Hokkaido, Fac Pharmaceut Sci, Ishikari, Hokkaido 061 029, Japan
J Label Compound Radiopharm 2008 **51** (11) 384-387
Synthesis of a radioiodinated thymidine phosphorylase inhibitor and its preliminary evaluation as a potential SPECT tracer for angiogenic enzyme expression
- Takeuchi K, Sun ZYJ, Wagner G*// *Harvard Med Sch, Dept Biol Chem & Mol Pharmacol, 240 Longwood Ave, Boston, Ma 02115, USA
J Am Chem Soc 2008 **130** (51) 17210-17211
Alternate ¹³C-¹²C labeling for complete mainchain resonance assignments using C α direct-detection with applicability toward fast relaxing protein systems
- Van Dort ME, Lee KC, Hamilton CA, Rehemtulla A, Ross BD// Univ Michigan Sch Med, Dept Radiol, Ctr Mol Imaging, 109 Zina Pitcher Pl, Ann Arbor, Mi 48109, USA
Mol Imaging 2008 **7** (4) 187-197
Radiosynthesis and evaluation of 5-[¹²⁵I]iodoindol-3-yl- β -D-galactopyranoside as a β -galactosidase imaging radioligand
- West R, Wang YS, Atkinson J*// *Brock Univ, Dept Chem, 500 Glenridge Ave, St Catharines, Ontario, Canada L2S 3A1
J Label Compound Radiopharm 2008 **51** (13) 413-418
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- Winkler M, Domarkas J, Schweiger LF, O'Hagan D// Univ St Andrews, Ctr Biomol Sci, Nth Haugh, St Andrews KY16 9ST, Scotland
Angew Chem Int Ed 2008 **47** (52) 10141-10143
Fluorinase-coupled base swaps: Synthesis of [¹⁸F]-5'-deoxy-5'-fluorouridines
- Winnicka E, Kanska M// Warsaw Univ, Dept Chem, Pasteur 1 St, PL-02089 Warsaw, Poland
J Radioanal Nucl Chem 2008 **279** (2) 675-678
Synthesis of L-tryptophan labeled with hydrogen isotopes in the indole ring
- Xavier C, Giannini C, Gano L, Maiorana S, Alberto R, Santos I*// *Inst Tecnol & Nucl, Unidade Ciencias Quim & Radiofarmaceut, Estrada Nacional 10, PT-2686-953 Sacavem, Portugal
J Biol Inorg Chem 2008 **13** (8) 1335-1344
Synthesis, characterization, and evaluation of a novel ^{99m}Tc(CO)₃ pyrazolyl conjugate of a peptide nucleic acid sequence
- Yu MM, Wang RF*, Yan P, Zhang CL, Liu M, Cui YG// *First Hosp, Peking University, Dept Nucl Med, 8 Xishiku St, CN-100034 Beijing, Peoples Rep China
J Label Compound Radiopharm 2008 **51** (11) 374-378
Design, synthesis and iodination of an Arg-Arg-Leu peptide for potential use as an imaging agent for human prostate carcinoma
- Zehl M, Rand KD, Jensen ON, Jorgensen TJD*// *University Southern Denmark, Dept Biochem & Mol Biol, Campusvej 55, DK-5230 Odense M, Denmark
J Am Chem Soc 2008 **130** (51) 17453-17459
Electron transfer dissociation facilitates the measurement of deuterium incorporation into selectively labeled peptides with single residue resolution
- Zhang JB, Lin Y, Sheng X, Wang XB// Beijing Normal University, MoE Key Laboratory Radiopharmaceuticals, CN-100875 Beijing, Peoples Republic China
Appl Radiat Isot 2009 **67** (1) 79-82
Synthesis of a novel ^{99m}Tc nitrido radiopharmaceutical with isopropyl xanthate, showing brain uptake

Applications:

3 Biomedical - General

- Balagurumoorthy P, Wang K, Adelstein SJ, Kassis AI// Harvard Med Sch, Dept Radiol, 200 Longwood Ave, Boston, Ma 02115, USA
Int J Radiat Biol 2008 **84** (12) 976-983
DNA double-strand breaks induced by decay of ¹²⁵I-labeled Hoechst 33342: Role of DNA topology
- Bayoumi SAL, Rowan MG, Beeching JR, Blagbrough IS*// *Univ Bath, Dept Pharm & Pharmacol, Bath BA2 7AY, England
Chembiochem 2008 **9** (18) 3013-3022
Investigation of biosynthetic pathways to hydroxycoumarins during post-harvest physiological deterioration in cassava roots by using stable isotope labeling
- Gaynutdinov TI, Neumann RD, Panyutin IG// NIH, Dept Nucl Med, Warren G Magnuson Clin Ctr, Bethesda, Md 20892, USA
Int J Radiat Biol 2008 **84** (12) 984-990
Iodine-125 radioprobng of intramolecular quadruplex conformation of human telomeric DNA in the presence of cationic porphyrin TMPyP4
- Gevaert K, Impens F, Ghesquiere B, Van Damme P, Lambrechts A, Vandekerckhove J*// *Ghent Univ, VIB, Dept Med Prot Res & Biochem, A Baertsoenkaai 3, BE-9000 Ghent, Belgium
Proteomics 2008 **8** (23-24) 4873-4885
Stable isotopic labeling in proteomics (Review)
- Girard PM, Nikjoo H, Laughton C*// *Univ Nottingham, Ctr Biomol Sci, University Pk, Nottingham NG7 2RD, England
Int J Radiat Biol 2008 **84** (12) 1045-1049
Simulation of ¹²⁵I-based radioprobng experiments to study DNA quadruplex structure and topology
- Goorley T, Terrissol M, Nikjoo H*// *Karolinska Inst, Radiat Biophys Grp, SE-17176 Stockholm, Sweden
Int J Radiat Biol 2008 **84** (12) 1050-1056
Calculated strand breaks from ¹²⁵I in coiled DNA
- Harrison PW, Kruger N*// *Univ Oxford, Dept Plant Sci, Sth Parks Rd, Oxford OX1 3RB, England
Phytochemistry 2008 **69** (17) 2920-2927
Validation of the design of feeding experiments involving [¹⁴C]substrates used to monitor metabolic flux in higher plants
- Herzog DC, Delvin EE, Albert C, Marcotte JE, Pelletier VA, Seidman EG// CHU Ste Justine, Div Gastroenterol, 3175 Chemin Cote St Catherine, Montreal, Quebec, Canada H3T 1C5
Clin Biochem 2008 **41** (18) 1489-1492
¹³C-labeled mixed triglyceride breath test (¹³C MTG-BT) in healthy children and children with cystic fibrosis (CF) under pancreatic enzyme replacement therapy (PERT): A pilot study
- Ibba M, Kitayama M, McDonald J, Calo G, Guerrini R, Farkas J, Toth G, Lambert D*// *University Leicester, Department Cardiovascular Science, Division Anaesthesia Critical Care & Pain Management, Leicester LE1 5WW, England
Naunyn Schmiedebergs Arch Pharmacol 2008 **378** (6) 553-561
Binding of the novel radioligand [³H]UFP-101 to recombinant human and native rat nociceptin/orphanin FQ receptors
- Jankovic D, Maksin T, Djokic D, Milonjic S, Nikolic N, Mirkovic M, Vranjes-Djuric S// Vinca Inst Nucl Sci, Belgrade 11000, Serbia
J Microsc Oxford 2008 **232** (3) 601-604
Particle size analysis: ⁹⁰Y and ^{99m}Tc-labelled colloids

Keli A, Mayes RW, De Vega A// INRA-Ctr Reg Tanger, Unite Recherche Prod Anim, 78 Blvd Sidi Mohamed Ben Abdellah, MA-90000 Tangier, Morocco

Animal 2008 **2** (12) 1748-1752

In vitro studies of the metabolism of [¹⁴C]-*n*-alkanes using ruminal fluid of sheep as substrate

Kristiansen TZ, Harsha HC, Gronborg M, Maitra A, Pandey A*// *Johns Hopkins Univ, McKusick-Nathans Inst Genet Med, Baltimore, Md 21205, USA

J Proteome Res 2008 **7** (11) 4670-4677

Differential membrane proteomics using ¹⁸O-labeling to identify biomarkers for cholangiocarcinoma

Lawrence R, Olson SK, Steele RE, Wang LC, Warrior R, Cummings RD, Esko JD*// *Univ Calif San Diego, Dept Cellular & Mol Med, Glycobiol Res & Training Ctr, La Jolla, Ca 92093, USA

J Biol Chem 2008 **283** (48) 33674-33684

Evolutionary differences in glycosaminoglycan fine structure detected by quantitative glycan reductive isotope labeling

Lobachevsky PN, White J, Leung M, Skene C, White J, Martin RF*// *Peter MacCallum Canc Ctr, Trescowthick Res Labs, St Andrews Pl, Melbourne, Vic 3002, Australia

Int J Radiat Biol 2008 **84** (12) 991-1000

Plasmid breakage by ¹²⁵I-labelled DNA ligands: Effect of DNA-iodine atom distance on breakage efficiency

Mahy P, De Bast M, De Groot T, Cheguillaume A, Gillart J, Haustermans K, Labar D, Gregoire V*// *St Luc Univ Hosp, Dept Radiat Oncol, 10 Ave Hippocrate, BE-1200 Brussels, Belgium

Radiother Oncol 2008 **89** (3) 353-360

Comparative pharmacokinetics, biodistribution, metabolism and hypoxia-dependent uptake of [¹⁸F]-EF3 and [¹⁸F]-MISO in rodent tumor models

Marengo SR, Zhang AL, Traverso EJ// Case Western Reserve Univ, Sch Med, Dept Physiol & Biophys, 10900 Euclid Ave, Cleveland, Oh 44106, USA

Urol Res 2008 **36** (6) 319-326

Partitioning of ¹⁴C-oxalate excretion in rats during a persistent oxalate challenge

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Ruth TJ// TRIUMF, Vancouver, Brit Columbia, Canada

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Goldsmith SJ, Vallabhajosula S// New York Presbyterian Hosp, Weill Cornell Med Ctr, Dept Radiol, Div Nucl Med, New York, NY 10021, USA

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Horti AG, Van Laere K// Johns Hopkins Med, Dept Pathol, Div Nucl Med, PET Ctr, 600 Nth Wolfe St, Baltimore, Md 21287, USA

Curr Pharm Des 2008 **14** (31) 3363-3383

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Mitterhauser M, Toegel S// Med Univ Vienna, Dept Nucl Med, AT-1090 Vienna, Austria

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Patel S, Gibson R// Merck Res Labs, Dept Imaging, WP44C-2, West Point, Pa 19486, USA

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