

Current awareness in labelled compounds and radiopharmaceuticals

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I Radionuclide production

Abbas K, Buono S, Burgio N, Cotogno G, Gibson N, Maciocco L, Mercurio G, Santagata A, Simonelli F, Tagziria H// Via Fermi 2749, IT-21020 Ispra, Va, Italy

Nucl Instrum Methods Phys Res A 2009 **601** (3) 223-228

Development of an accelerator driven neutron activator for medical radioisotope production

Bilewicz A, Zuchowska K, Bartos B// Inst Nucl Chem & Technol, Dorodna 16, PL-03195 Warsaw, Poland

J Radioanal Nucl Chem 2009 **280** (1) 167-169

Separation of Yb as YbSO₄ from the ¹⁷⁶Yb target for production of ¹⁷⁷Lu via the ¹⁷⁶Yb(n,γ)¹⁷⁷Yb→¹⁷⁷Lu process

Daraban L, Rebeles RA, Hermanne A// Univ Babes Bolyai, Dept Biomed Phys, RO-400084 Cluj Napoca, Romania

Appl Radiat Isot 2009 **67** (4) 506-510

Study of the excitation function for the deuteron induced reaction on ⁶⁴Ni(d,2n) for the production of the medical radioisotope ⁶⁴Cu

Ermolaev SV, Zhuikov BL, Kokhanyuk VM, Abramov AA, Togaeva NR, Khamianov SV, Srivastava SC// Russian Acad Sci, Inst Nucl Res, Moscow, Russia

J Radioanal Nucl Chem 2009 **280** (2) 319-324

Production of no-carrier-added ^{117m}Sn from proton irradiated antimony

Hermanne A, Tarkanyi F, Takacs S, Ditroi F, Baba M, Ohtshuki T, Spahn I, Ignatyuk AV// Vrije Univ Brussels, BE-1050 Brussels, Belgium

Nucl Instrum Methods Phys Res B 2009 **267** (5) 727-736

Excitation functions for production of medically relevant radioisotopes in deuteron irradiations of Pr and Tm targets

Infantino A, Ciceria G, Pancaldi D, Boschi S, Marengo M, Mostacci D// Univ Bologna, Lab Ingn Nucl Montecuccolino, Via Colli 16, IT-40136 Bologna, Italy

Radiat Eff Defect Solid 2009 **164** (5-6) 336-339

Undesired radionuclides in ¹⁸F₂ production by deuterons

Lukic D, Tamburella C, Buchegger F, Beyer GJ, Comor JJ, Seimille Y*// *Univ Hosp Geneva, Dept Radiol, CH-1211 Geneva 14, Switzerland

Appl Radiat Isot 2009 **67** (4) 523-529

High efficiency production and purification of ⁸⁶Y based on electrochemical separation

Melville G, Allen BJ// University Western Sydney, Penrith, NSW 1797, Australia

Appl Radiat Isot 2009 **67** (4) 549-555

Cyclotron and linac production of ²²⁵Ac

Skarnemark G, Odegaard-Jensen A, Nilsson J, Bartos B, Kowalska E, Bilewicz A, Bernhardt P// Chalmers Univ Technol, Dept Chem & Biol Engn, SE-41296 Gothenburg, Sweden

J Radioanal Nucl Chem 2009 **280** (2) 371-373

Production of ^{103m}Rh for cancer therapy

Tarkanyi F, Takacs S, Kiraly B*, Szelecsenyi F, Ando L, Bergman J, Heselius SJ, Solin O, Hermanne A, Shubin YN, Ignatyuk AV// *ATOMKI, Inst Nucl Res, Cyclotron Dept, Bem ter 18/c, HU-4026 Debrecen, Hungary

Appl Radiat Isot 2009 **67** (6) 1001-1006

Excitation functions of ³He- and α-particle induced nuclear reactions on ^{nat}Sb for production of medically relevant ¹²³I and ¹²⁴I radioisotopes

Watanabe S, Iida Y, Suzui N, Katabuchi T, Ishii S, Kawachi N, Hanaoka H, Watanabe S, Matsuhashi S, Endo K, Ishioka NS// Japan Atomic Energy Agcy, Quantum Beam Sci Directorate, Plant Positron Imaging Grp, 1233 Watanuki, Takasaki, Gunma 370 1292, Japan

J Radioanal Nucl Chem 2009 **280** (1) 199-205

Production of no-carrier-added ⁶⁴Cu and applications to molecular imaging by PET and PETIS as a biomedical tracer

2 Labelled compound synthesis

Acar C, Teksoz S, Unak P, Muftuler FZB, Medine EI// Ege Univ, Inst Nucl Sci, Dept Nucl Applicat, TR-35100 Izmir, Turkey

J Radioanal Nucl Chem 2009 **280** (2) 375-380

The influence of stereoisomerism on the biological behavior of ^{99m}Tc labeled penicillamine

Akgun E, Korner M, Gao F, Harikumar KG, Waser B, Reubi JC*, Portoghesi PS, Miller LJ// *Univ Bern, Inst Pathol, Div Cell Biol & Expt Canc Res, CH-3010 Bern, Switzerland

J Med Chem 2009 **52** (7) 2138-2147

Synthesis and *in vitro* characterization of radioiodinatable benzodiazepines selective for type 1 and type 2 cholecystokinin receptors

Akiyama K, Haba H, Tsukuda K, Asai M, Toyoshima A, Sueki K, Nagame Y, Katada M// Tokyo Metropolitan Univ, Grad Sch Sci & Engn, 1-1 Minamiosawa, Hachioji, Tokyo 192 0397, Japan

J Radioanal Nucl Chem 2009 **280** (2) 329-331

A metallofullerene that encapsulates ²²⁵Ac

Boersema PJ, Raijmakers R, Lemeer S, Mohammed S*, Heck AJR// *Univ Utrecht, Biomol Mass Spectrometry & Proteomics Grp, Bijvoet Ctr Biomol Res, Padualaan 8, NL-3584 CH Utrecht, The Netherlands

Nat Protoc 2009 **4** (4) 484-494

Multiplex peptide stable isotope dimethyl labeling for quantitative proteomics

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.

- Capogni M, De Felice P, Fazio A// ENEA-INMRI, CR Casaccia, cp 2400, IT-00100 Rome, Italy
Radiat Eff Defect Solid 2009 **164** (5-6) 297-301
A travelling standard for radiopharmaceutical production centres in Italy
- Cheung MK, Ho CL// Hong Kong Sanatorium & Hospital, Department Nuclear Med & PET, 2-4 Village Rd, Happy Valley, Hong Kong, Peoples Rep China
Appl Radiat Isot 2009 **67** (4) 581-589
A simple, versatile, low-cost and remotely operated apparatus for [¹¹C]acetate, [¹¹C]choline, [¹¹C]methionine and [¹¹C]PIB synthesis
- Chu TW, Xu H, Yang Z, Wang XY// Peking University, College Chem & Mol Engn, Dept Appl Chem, BNLMs, CN-100871 Beijing, Peoples Rep China
Appl Radiat Isot 2009 **67** (4) 590-593
Synthesis and *in vitro* evaluation of three ^{99m}Tc-labeled hydroxamate-based ligands as markers for hypoxic cells
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Bioorg Med Chem Lett 2009 **19** (9) 2497-2499
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- Doi H, Ban I, Nonoyama A, Sumi K, Kuang CX, Hosoya T, Tsukada H, Suzuki M// *RIKEN, CMIS, 6-7-3 Minatogima Minamimachi, Chuo ku, Kobe, Hyogo 650 0047, Japan
Chemistry 2009 **15** (16) 4165-4171
Palladium(0)-mediated rapid methylation and fluoromethylation on carbon frameworks by reacting methyl and fluoromethyl iodide with aryl and alkenyl boronic acid esters: Useful for the synthesis of [¹¹C]CH₃-C- and [¹⁸F]FCH₂-C-containing PET tracers (PET=positron emission tomography)
- El-Kawy OA, Hashem AM, Amin MA, El-Wetery AS// 11 Lateef St, EG-12551 Giza, Egypt
J Labelled Comp Radiopharm 2009 **52** (3) 91-97
Labeling, biodistribution and evaluation of [¹²⁵I] gemcitabine: A potential agent for tumor diagnosis and radiotherapy
- Enginar H, Unak P, Lambrecht FY, Muftuler FZB, Medine EI, Yolcular S, Yurt A, Seyitoglu B, Bulduk I// Afyon Kocatepe Univ, Fac Arts & Sci, Dept Chem, ANS Campus, TR-03200 Afyon, Turkey
J Radioanal Nucl Chem 2009 **280** (2) 363-370
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- Fan WW, Lin Y, Zhang XZ*, Pang Y, Ma C, Tang ZG, Zhang JB, Wang XB// *Beijing Normal Univ, Coll Chem, MoE Key Lab Radiopharmaceut, CN-100875 Beijing, Peoples Rep China
Sci China B 2009 **52** (5) 590-598
Synthesis and biological evaluation of ^{99m}Tc-HEDTA/HYNIC-MPP4 complex for 5-HT_{1A} receptor imaging
- Farn SS, Yeh YH, Lin WJ, Shen LH// Inst Nucl Energy Res, Isotope Applicat Div, Taoyuan, Taoyuan County, Taiwan
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Development and validation of 2-deoxy-2-chloro-D-glucose impurity analysis in [¹⁸F]FDG by three potential-time waveforms of high-performance liquid chromatography/pulsed amperometric detection
- Fenselau C, Yao XD// Univ Maryland, Dept Chem & Biochem, College Park, Md 20742, USA
J Proteome Res 2009 **8** (5) 2140-2143
¹⁸O₂-labeling in quantitative proteomic strategies: A status report (Review)
- Franck D, Nann H, Davi P, Schubiger PA, Ametamey SM// ETH, Ctr Radiopharmaceut Sci, CH-8093 Zurich, Switzerland
Appl Radiat Isot 2009 **67** (6) 1068-1070
Faster analysis of radiopharmaceuticals using ultra performance liquid chromatography (UPLC®) in combination with low volume radio flow cell
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Bioconj Chem 2009 **20** (3) 583-590
Design, synthesis, and preliminary *in vitro* and *in vivo* evaluation of N-(2-diethylaminoethyl)-4-[¹⁸F]fluorobenzamide ([¹⁸F]-DAFBA): A novel potential PET probe to image melanoma tumors
- Gomez-Vallejo V, Kato K, Hanyu M, Minegishi K, Borrell JI, Llop J// *CIC biomaGUNE, Dept Radiochem, Parque Tecnol San Sebastian, P Miramon 182, Edificio Empresarial C, ES-20009 San Sebastian, Guipuzcoa, Spain
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Efficient system for the preparation of [¹³N] labeled nitrosamines
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Synthesis and screening of bifunctional radiolabelled carborane-carbohydrate derivatives
- Guo K, Li L// *Univ Alberta, Dept Chem, Edmonton, AB, Canada T6G 2G2
Anal Chem 2009 **81** (10) 3919-3932
Differential ¹²C/¹³C-isotope danylation labeling and fast liquid chromatography/mass spectrometry for absolute and relative quantification of the metabolome
- Hao GY, Fukumura T*, Nakao R, Suzuki H, Szelecsenyi F, Kovacs Z, Suzuki K// *Natl Inst Radiol Sci, Mol Imaging Ctr, 4-9-1 Anagawa, Inage ku, Chiba 263 8555, Japan
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Cation exchange separation of ⁶⁴Cu²⁺ from ⁶⁰Co targets and preparation of ⁶⁴Cu-DOTA-HSA as a blood pool agent
- Hasler F, Kuznetsova OF, Krasikova RN, Cservenyak T, Quednow BB, Vollenweider FX, Ametamey SM, Westera G// Univ Hosp Psychiat, Heffter Res Ctr, Zurich, Switzerland
Appl Radiat Isot 2009 **67** (4) 598-601
GMP-compliant radiosynthesis of [¹⁸F]altanserin and human plasma metabolite studies
- Hatton W, Silvestre V, Robins RJ, Mathe-Allainmat M, Lebreton J// *Univ Nantes, Fac Sci & Tech, UMR CNRS 6230, Lab Chim & Interdisciplinarite Synth Anal Modeliation, 2 rue de la Houssiniere, FR-44322 Nantes 3, France
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Synthesis of four racemic nicotine isotopomers doubly labelled with stable isotope
- Hens M, Vaidyanathan G, Welsh P, Zalutsky MR// *Duke Univ Med Ctr, Dept Radiol, Durham, NC 27710, USA
Nucl Med Biol 2009 **36** (2) 117-128
Labeling internalizing anti-epidermal growth factor receptor variant III monoclonal antibody with ¹⁷⁷Lu: *In vitro* comparison of acyclic and macrocyclic ligands
- Herth MM, Kramer V, Piel M, Palner M, Riss PJ, Knudsen GM, Rosch F// Johannes Gutenberg Univ Mainz, Inst Nucl Chem, Fritz Strassmann Weg 2, DE-55128 Mainz, Germany
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Synthesis and *in vitro* affinities of various MDL 100907 derivatives as potential ¹⁸F-radioligands for 5-HT_{2A} receptor imaging with PET
- Hooker JM, Reibel AT, Hill SM, Schueller MJ, Fowler JS// Brookhaven Natl Lab, Dept Med, Upton, NY 11973, USA
Angew Chem Int Ed 2009 **48** (19) 3482-3485
One-pot, direct incorporation of [¹¹C]CO₂ into carbamates
- Huang YY, Huang WS, Chu TC, Shiue CY// *Tri-Service Gen Hosp, Dept Nucl Med, PET Ctr, 325 Sect 2 Cheng Kung Rd, Taipei 114, Taiwan
Appl Radiat Isot 2009 **67** (6) 1063-1067
An improved synthesis of 4-[¹⁸F]-ADAM, a potent serotonin transporter imaging agent
- Igel P, Schnell D, Bernhardt G, Seifert R, Buschauer A// *Univ Regensburg, Inst Pharm, Universitätsstr 31, DE-93053 Regensburg, Germany
ChemMedChem 2009 **4** (2) 225-231
Tritium-labeled N-1-[3-(1H-imidazol-4-yl)propyl]-N-2-propionylguanidine (³H]UR-PI294), a high-affinity histamine H₂ and H₃ receptor radioligand
- Kabalka GW, Yao ML// Univ Tennessee, Dept Chem & Radiol, Knoxville, Tn 37996, USA
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- Khdour O, Skibo EB// *Arizona State Univ, Dept Chem & Biochem, Tempe, Az 85287, USA
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Quinone methide chemistry of prekinamycins: ¹³C-labeling, spectral global fitting and *in vitro* studies
- Kiani S, Staples RJ, Treves ST, Packard AB// *Harvard Med Sch, Childrens Hosp Boston, Div Nucl Med, Boston, Ma 02115, USA
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Synthesis and characterization of a tetramethyl furanone functionalized diiminedioxime, a potential ligand for ⁶⁴Cu radiopharmaceuticals, and its copper(II) and nickel(II) complexes
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Synthesis and PET studies of [¹¹C-cyano]letrozole (Femara), an aromatase inhibitor drug
- Kim SW, Biegen A, Katsamanis ZE, Ehrlich CW, Hooker JM, Shea C, Muench L, Xu Y, King P, Carter P, Alexoff DL, Fowler JS// Brookhaven Natl Lab, Dept Med, Upton, NY 11973, USA
Nucl Med Biol 2009 **36** (3) 323-334
Reinvestigation of the synthesis and evaluation of [N-methyl-¹¹C] vorozole, a radiotracer targeting cytochrome P450 aromatase

- Latli B, Hrapchak M, Busacca CA, Krishnamurthy D, Senanayake CH// Boehringer Ingelheim Pharmaceuticals Inc, Dept Chem Dev, Res & Dev Ctr, POB 368, 900 Ridgebury Rd, Ridgefield, Ct 06877, USA
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 Synthesis of [¹⁴C]- and [¹³C₆]-labeled potent HIV non-nucleoside reverse transcriptase inhibitor
- Lin RH, Salter R, Gong Y// Johnson & Johnson Pharmaceutical Research & Development LLC, Global Preclin Dev, 1000 Route 202, Raritan, NJ 08869, USA
J Labelled Comp Radiopharm 2009 **52** (4) 110-113
 Rapid and efficient synthesis of stable isotope labeled [¹³C₄, D₄]-5-(hydroxymethyl)thiazole: Versatile building block for biologically interesting compounds
- Maschauer S, Prante O*// *Univ Erlangen Nurnberg, Clin Nucl Med, Lab Mol Imaging, Schwabachanlage 6, DE-91054 Erlangen, Germany
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 Synthesis of [1,2-T₂]-nandrolon for RIA kits
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- Murthy A, Ullas G*// *PerkinElmer Life & Analytical Sciences Inc, 549 Albany St, Boston, Ma 02118, USA
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 Synthesis of [¹⁴C] labeled 2-methoxy-pyrimidine-5-carboxylic acid
- Namavari M, Cheng Z, Zhang R, De A, Levi J, Hoerner JK, Yaghoubi SS, Syud FA, Gambhir SS*// *Stanford Univ, Dept Radiol, Mol Imaging Program Stanford, 318 Campus Dr, Stanford, Ca 94305, USA
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 Design, synthesis, radiolabeling and *in vitro* and *in vivo* characterization of tumor-antigen- and antibody-derived peptides for the detection of breast cancer
- Park TJ, Kim SJ, Choi SS, Kim Y*// *Hankuk Univ Foreign Studies, Dept Chem, Yongin 449 791, South Korea
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- Parrott MC, Benhabbour SR, Saab C, Lemon JA, Parker S, Valliant JF*, Adronov A// *McMaster Univ, Dept Chem, 1280 Main St West, Hamilton, Ontario, Canada L8S 4M1
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 Synthesis, radiolabeling, and bio-imaging of high-generation polyester dendrimers
- Raja SN, Surber BW, Du J, Cross JL// Abbott Labs, Process Chem Dept, R450, AP9, 100 Abbott Park Rd, Abbott Park, Il 60064, USA
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- Shao X, Kilbourn MR// Univ Michigan, Dept Radiol, Ann Arbor, Mi 48109, USA
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- Shukla G, Tiwari AK, Sinha D, Srivasta R, Cahndra H, Mishra AK*// *INMAS, Dept Radiopharmaceut Sci, Brig SK Mazumdar Rd, Delhi 54, India
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- Sommer K, Williams RM*// *Univ Colorado, Canc Ctr, Aurora, Co 80045, USA
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- Vidovic V, Prongidi-Fix L, Bechinger B, Werten S*// *Universite Strasbourg, Inst Chim, UMR CNRS 7177, 4 rue Blaise Pascal, FR-67070 Strasbourg, France
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 A new ¹⁸F-labelled derivative of the MMP inhibitor CGS 27023A for PET: Radiosynthesis and initial small-animal PET studies
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- Wang MW, Zhang YJ, Zhang YP, Yuan HY// Fudan Univ, Shanghai Med Coll, Dept Nucl Med, Dept Oncol, PET Ctr, 270 Dong An Rd, CN-200032 Shanghai, Peoples Rep China
J Radioanal Nucl Chem 2009 **280** (1) 149-155
 Automated synthesis of hypoxia imaging agent [¹⁸F]FMISO based upon a modified Explora FDG₄ module

Wangler C, Schirmacher R, Bartenstein P, Wangler B// McGill Univ, Montreal Neurol Inst, McConnell Brain Imaging Ctr, 3800 University St, Montreal, Quebec, Canada H3A 2B4

Bioorg Med Chem Lett 2009 **19** (7) 1926-1929

Simple and convenient radiolabeling of proteins using a prelabeling-approach with thiol-DOTA

Watson HR, Apperley DC, Dixon DP, Edwards R, Hodgson DRW*// *University Durham, Department Chem, South Rd, Durham DH1 3LE, England

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Winnicka E, Kanska M// Warsaw Univ, Dept Chem, Pasteur 1 St, PL-02089 Warsaw, Poland

J Radioanal Nucl Chem 2009 **280** (1) 79-84

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Xia BY, Feasley CL, Sachdev GP, Smith DF, Cummings RD*// *Emory Univ Sch Med, Dept Biochem, Atlanta, Ga 30322, USA

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Xu YP, Yang M*, Pan DH// *Jiangsu Institute Nuclear Medicine, Ministry Hlth Key Lab Nucl Med, 20 Qianrong Rd, CN-214063 Wuxi, Peoples Rep China

Appl Radiat Isot 2009 **67** (4) 594-597

Synthesis, radiosynthesis, and *in vitro* evaluation of [¹³¹I]-5-iodo-N-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinoline-2-yl)-ethyl]-2-methoxy-benzamide as a potential tumor imaging agent

Yamazaki Y, Ogawa SI, Shibuya K*// *Kowa Co Ltd, Division Pharmaceut, Tokyo New Drug Research Labs, 2-17-43 Noguchicho, Tokyo 189 0022, Japan

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Synthesis of highly deuterium-labeled (R)-K-13675, PPAR α agonist, for use as an internal standard for low-level quantification of drugs in plasma

Yang SY, Wang XB*, Guo HX, Liu J, Wang FL, Zhang XZ// *Beijing Normal University, College Chemistry, CN-100875 Beijing, Peoples Republic China

J Labelled Comp Radiopharm 2009 **52** (3) 73-78

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Yu WP, Williams L, Camp VM, Malveaux E, Olson JJ, Goodman MM*// *Emory University School Medicine, Department Radiol, Atlanta, Ga 30322, USA

Bioorg Med Chem 2009 **17** (5) 1982-1990

Stereoselective synthesis and biological evaluation of *syn*-1-amino-3-[¹⁸F]fluorocyclobutyl-1-carboxylic acid as a potential positron emission tomography brain tumor imaging agent

Zhang JB, Song ZX, Wang XB// Beijing Normal University, College Chemistry, MoE Key Lab Radiopharmaceut, CN-100875 Beijing, Peoples Rep China

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Zhang JB, Ren JL, Lin X, Wang XB// Beijing Normal University, College Chem, MoE Key Lab Radiopharmaceut, CN-100875 Beijing, Peoples Rep China

Bioorg Med Chem Lett 2009 **19** (10) 2752-2754

Synthesis and biological evaluation of a novel ^{99m}Tc nitrido radiopharmaceutical with deoxyglucose dithiocarbamate, showing tumor uptake

Zhong D, Lewin AH*// *Research Triangle Institute, Center Organic & Medicinal Chemistry, PO Box 12194, Research Triangle Park, NC 27709, USA

J Labelled Comp Radiopharm 2009 **52** (4) 103-109

Preparation of high specific activity tritium labeled 6 α ,9-difluoro-11 β ,21-dihydroxy-16 α ,17-[(1-methylethylidene)bis(oxy)]pregna-1,4-diene-3,20-one, flucinolone acetonide

Zhou D, Zhou HB, Jenks CC, Lewis JS, Katzenellenbogen JA, Welch MJ// Washington Univ Sch Med, Mallinckrodt Inst Radiol, St Louis, Mo 63110, USA

Bioconjug Chem 2009 **20** (4) 808-816

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Zhou D, Lee H, Rothfuss JM, Chen DL, Ponde DE, Welch MJ, Mach RH*// *Washington Univ Sch Med, Div Radiol Sci, Campus Box 8225, 510 Sth Kingshighway Blvd, St Louis, Mo 63110, USA

J Med Chem 2009 **52** (8) 2443-2453

Design and synthesis of 2-amino-4-methylpyridine analogues as inhibitors for inducible nitric oxide synthase and *in vivo* evaluation of [¹⁸F]6-(2-fluoropropyl)-4-methyl-pyridin-2-amine as a potential PET tracer for inducible nitric oxide synthase

Applications:

3 Biomedical - General

Antonelli T, Tomasini MC, Mazza R, Fuxe K, Gaetani S, Cuomo V, Tanganelli S, Ferraro L*// *Univ Ferrara, Pharmacol Sect, Dept Clin & Expt Med, Via Fossato Mortara 17-19, IT-44100 Ferrara, Italy

J Pharmacol Exp Ther 2009 **329** (2) 708-717

Cannabinoid CB₁ and cholecystokinin CCK₂ receptors modulate, in an opposing way, electrically evoked [³H] GABA efflux from rat cerebral cortex cell cultures: Possible relevance for cortical GABA transmission and anxiety

Benkovsky I, Stanik R, Polakovicova M// Comenius Univ, Fac Pharm, Dept Pharmaceut Anal & Nucl Pharm, Odbojarov 10, SK-83232 Bratislava, Slovakia

J Radioanal Nucl Chem 2009 **280** (1) 63-68

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Blight AR, Henney HR*// *Acorda Therapeut, 15 Skyline Dr, Hawthorne, NY 10532, USA

Clin Ther 2009 **31** (2) 328-335

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Burgess JP, Green JS, Hill JM, Zhan Q, Lindeblad M, Lyubimov A, Kapetanovic IM, Schwartz A, Thomas BF*// *RTI International, Anal Chem & Pharmaceut Grp, 3040 Cornwallis Rd, POB 12194, Res Triangle Park, NC 27709, USA

Drug Metab Dispos 2009 **37** (5) 1089-1097

Identification of [¹⁴C]fluasterone metabolites in urine and feces collected from dogs after subcutaneous and oral administration of [¹⁴C]fluasterone

Cawston TE// Newcastle upon Tyne, Med Sch, Inst Cellular Med, Musculoskeletal Res Grp, Framlington Pl, Newcastle upon Tyne NE2 4HH, England

Nat Protoc 2009 **4** (3) 286-290

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Cazarolli LH, Folador P, Moresco HH, Brighente IMC, Pizzolatti MG, Silva FRMB*// *Univ Fed Santa Catarina, Dept Bioquim, Ctr Ciencias Biol, Campus Univ, Cx Postal 5069, BR-88040-970 Florianopolis, SC, Brazil

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Cerdan S, Sierra A, Fonseca LL, Ballesteros P, Rodrigues TB// Inst Invest Biomed Alberto Sols, LISMAR, Calle Arturo Duperier 4, ES-28029 Madrid, Spain

J Neurochem 2009 **109** (Suppl 1) 63-72

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Chiara DC, Hong FH, Arevalo E, Husain SS, Miller KW, Forman SA, Cohen JB*// *Harvard Med Sch, Dept Neurobiol, 220 Longwood Ave, Boston, Ma 02115, USA

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Dasari S, Wilmarth PA, Reddy AP, Robertson LJJ, Nagalla SR, David LL*// *Oregon Hlth & Sci Univ, Sch Med, Dept Biochem & Mol Biol, 3181 SW Sam Jackson Pk Rd, Portland, Or 97239, USA

J Proteome Res 2009 **8** (3) 1263-1270

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De Paoli S, Giani TS, Presta GA, Correa CG, Maiworm AI, Santos SD, Bernado M// Univ Estado Rio de Janeiro, Dept Biofis & Biometria, Lab Radiofarm Expt, BR-20551-030 Rio de Janeiro, Brazil

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Desta Z, Modak A, Nguyen PD, Lemler SM, Kurogi Y, Li L, Flockhart DA// Indiana Univ Sch Med, 1001 West 10th St, WD Myers Bldg, Indianapolis, In 46202, USA

J Pharmacol Exp Ther 2009 **329** (1) 297-305

Rapid identification of the hepatic cytochrome P450 2C19 activity using a novel and noninvasive [¹³C]pantoprazole breath test

Engelmann NJ, Rogers RB, Lila MA, Erdman JW*// *Univ Illinois, Div Nutr Sci, 905 Sth Goodwin Ave, Urbana, Il 61801, USA

J Agric Food Chem 2009 **57** (11) 4614-4619

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- Gonzalez B, Paz F, Floran L, Aceves J, Erlj D, Floran B*// *Inst Politecn Nacl, Dept Fisiol Biofis & Neurociencias, Ctr Invest & Estudios Avanzados, MX-07000 Mexico City, DF, Mexico
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- Heiskanen T, Heiskanen T, Kairemo K// Xemet Co Ltd, Tikasniitynkua 7, FI-02200 Espoo, Finland
Curr Pharm Des 2009 **15** (9) 988-1007
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- Jekunen AP// Linnankatu 1A, FI-20100 Turku, Finland
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- Larson SM// Memorial Sloan Kettering Canc Ctr, Dept Radiol, Nucl Med Serv, 1275 York Ave, New York, NY 10021, USA
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- Macasek F, Kovac P, Rajec P, Lepej R// Biont AS, Karloveska 63, SK-84229 Bratislava, Slovakia
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- Madine J, Clayton JC, Yates EA, Middleton DA// Univ Liverpool, Sch Biol Sci, Crown St, Liverpool L69 7ZB, England
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- Murphy PS, Bergstrom M// GlaxoSmithKline Inc, Oncol Res & Dev, Uxbridge UB11 1BT, England
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- Santos-Oliveira R// Nucl Engn Inst Brazil, Radiopharm Div, Rua Helio de Almedia 75, BR-21941-906 Rio de Janeiro, Brazil
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- Sun YY, Chen Y*// *Affiliated Hospital, Luzhou Medical College, Department Nuclear Med, Taiping St, CN-646000 Luzhou, Sichuan, Peoples Rep China
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- Tang ZM, Martin MV, Guengerich FP*// *Vanderbilt University School Medicine, Department Biochemistry, 2200 Pierce Ave, Nashville, Tn 37232, USA
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Radiotracer imaging studies in hepatic encephalopathy: ISHEN practice guidelines (Review)

Elkhwad M, Rudd JHF// Addenbrookes Hosp, Div Cardiovasc Med, Box 110, Hills Rd, Cambridge CB2 0QQ, England

Cardiol Clin 2009 **27** (2) 345-354

Radiotracer imaging of atherosclerotic plaque biology (Review)

Flotats A, Carrio I// Univ Autonomia Barcelona, Hosp Santa Creu & St Pau, Dept Nucl Med, St Antoni M Claret 167, ES-08025 Barcelona, Spain

J Nucl Cardiol 2009 **16** (2) 304-315

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Hellwig D, Baum RP, Kirsch CM// Univ Klinikum Saarlandes, Klin Nucl Med, DE-66421 Homburg, Germany

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Leung DK, Van Heertum RL// *Columbia Univ Med Ctr, Coll Phys & Surg, Dept Radiol, 180 Fort Washington Ave, New York, NY 10032, USA

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Morrison AR, Sinusas AJ// *Yale Univ Sch Med, Sect Cardiovasc Med, POB 208017, New Haven, Ct 06520, USA

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Deuther-Conrad W, Fischer S, Hiller A, Nielsen EO, Timmermann DB, Steinbach J, Sabri O, Peters D, Brust P// Inst Interdisciplinary Isotope Res, Permoserstr 15, DE-04318 Leipzig, Germany

Eur J Nucl Med Mol Imaging 2009 **36** (5) 791-800

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Nucl Med Biol 2009 **36** (2) 163-169

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Herrmann K, Krause BJ, Bundschuh RA, Dechow T, Schwaiger M// TU Munich, Dept Nucl Med, Ismaningerstr 22, DE-81675 Munich, Germany

Semin Nucl Med 2009 **39** (3) 210-232

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Hohne A, Yu L, Mu LJ, Reiher M*, Voigtman U, Klar U, Graham K, Schubiger PA, Ametamey SM// *ETH, Dept Chem & Appl Biosci, Phys Chem Lab, CH-8093 Zurich, Switzerland

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Jacobson MS, Dankwart HR, Mahoney DW// Mayo Clin, Div Nucl Med, 200 First St SW, Rochester, Mn 55905, USA

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Lee HJ, Jeong JM*, Rai G, Lee YS, Chang YS, Kim YJ, Kim HW, Lee DS, Chung JK, Mook-Jung I, Lee MC// *Seoul Natl Univ, Coll Med, Dept Nucl Med, Seoul 110 744, South Korea

Nucl Med Biol 2009 **36** (2) 107-116

¹⁸F-labeled benzylideneaniline derivatives as new ligands for β -amyloid plaque imaging in Alzheimer's disease

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J Radioanal Nucl Chem 2009 **280** (1) 15-20

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Neuroimage 2009 **45** (3) 687-693

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Nucl Med Commun 2009 **30** (5) 326-332

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Evaluation of the novel myocardial perfusion positron-emission tomography tracer ¹⁸F-BMS-747158-02 comparison to ¹³N-ammonia and validation with microspheres in a pig model

Odano I, Halldin C, Karlsson P, Varrone A, Airaksinen AJ, Krasikova RN, Farde L// Niigata Univ, Div Funct Imaging, Niigata 951 8510, Japan

Neuroimage 2009 **45** (3) 891-902

[¹⁸F]Flumazenil binding to central benzodiazepine receptor studies by PET: Quantitative analysis and comparisons with [¹¹C]flumazenil

Ono M, Watanabe R, Kawashima H, Kawai T, Watanabe H, Haratake M, Saji H, Nakayama M// Nagasaki Univ, Grad Sch Biomed Sci, 1-14 Bunkyo machi, Nagasaki 852 8521, Japan

Bioorg Med Chem 2009 **17** (5) 2069-2076

¹⁸F-labeled flavones for in vivo imaging of β -amyloid plaques in Alzheimer's brains

Reid AE, Hooker J, Shumay E, Logan J, Shea C, Kim SW, Collins S, Xu YW, Volkow N, Fowler JS// NIAAA, Bethesda, Md 20892, USA

Nucl Med Biol 2009 **36** (3) 247-258

Evaluation of 6-([¹⁸F]fluoroacetamido)-1-hexanoic anilide for PET imaging of histone deacetylase in the baboon brain

Schmidt M, Bollschweiler E, Dietlein M, Monig SP, Kobe C, Vallboehmer D, Eschner W, Holscher A, Schicha H// Univ Cologne, Dept Nucl Med, Kerpener Str 62, DE-50937 Cologne, Germany

Eur J Nucl Med Mol Imaging 2009 **36** (5) 735-744

Mean and maximum standardized uptake values in [¹⁸F]FDG-PET for assessment of histopathological response in oesophageal squamous cell carcinoma or adenocarcinoma after radiochemotherapy

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Circ Cardiovasc Imaging 2009 **2** (2) 77-84

Evaluation of a novel ¹⁸F-labeled positron-emission tomography perfusion tracer for the assessment of myocardial infarct size in rats

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Clin Nucl Med 2009 **34** (4) 216-221

Dual-time-point ¹⁸F FDG PET/CT for evaluation of intrathoracic lymph nodes in patients with non-small cell lung cancer

Skovgaard D, Kjaer M, El-Ali H, Kjaer A// Bispebjerg Hosp, Inst Sports Med, Build 8, Bispebjerg Bakke 23, DK-2400 Copenhagen NV, Denmark
Eur J Nucl Med Mol Imaging 2009 **36** (5) 859-868

¹⁸F-fluorodeoxyglucose and PET/CT for noninvasive study of exercise-induced glucose uptake in rat skeletal muscle and tendon

Strobel K, Haerle SK, Stoekli SJ, Schrank M, Soyka JD, Veit-Haibach P, Hany TF// Univ Zurich Hosp, Dept Med Radiol, Div Nucl Med, Raemistr 100, CH-8091 Zurich, Switzerland
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Head and neck squamous cell carcinoma (HNSCC) - Detection of synchronous primaries with ¹⁸FDG-PET/CT

Tian R, Su MG, Tian Y, Li FL, Li L, Kuang AR, Zeng JC// *Sichuan Univ, West China Hosp, Dept Orthopaedics, CN-610064 Chengdu, PR China
Skeletal Radiol 2009 **38** (5) 451-458

Dual-time point PET/CT with ¹⁸F FDG for the differentiation of malignant and benign bone lesions

Urakami T, Sakai K, Asai T, Fukumoto D, Tsukada H, Oku N// *Univ Shizuoka, Dept Med Biochem, Suruga ku, Shizuoka 422 8526, Japan
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Rojas G, Raff U, Gonzalez P, Jaimovich R, Quintana JC// Santa Maria Clin, Dept Radiol, Av Santa Maria 0500, Santiago, Chile
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Clerc J// Univ Paris Descartes, Hop Cochin, Nucl Med Serv, 27 rue Faubourg St Jacques, FR-75679 Paris 14, France

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J Nucl Cardiol 2009 **16** (1) 113-121

¹²³I-mIBG scintigraphy to predict risk for adverse cardiac outcomes in heart failure patients: Design of two prospective multicenter international trials

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Posttherapeutic ¹³¹I SPECT-CT offers high diagnostic accuracy when the findings on conventional planar imaging are inconclusive and allows a tailored patient treatment regimen

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Nucl Med Biol 2009 **36** (2) 207-213

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Ruhe HG, Booi J, Reitsma JB, Schene AH// Univ Amsterdam Acad Med Ctr, Dept Psychiat, Program Mood Disorders, POB 22660, NL-1100 DD Amsterdam, The Netherlands

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Serotonin transporter binding with [¹²³I]β-CIT SPECT in major depressive disorder *versus* controls: Effect of season and gender

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Holland JP, Giansiracusa JH, Bell SG, Wong LL, Dilworth JR// Memorial Sloan Kettering Cancer Center, 1275 York Avenue, New York, NY 10065, USA

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Bioconjug Chem 2009 **20** (4) 790-798

Evaluation of ⁶⁴Cu(DO3A-xy-TPEP) as a potential PET radiotracer for monitoring tumor multidrug resistance

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Nucl Med Biol 2009 **36** (3) 277-285

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Intra-individual comparison of ⁶⁸Ga-DOTA-TATE and ¹⁸F-DOPA PET in patients with well-differentiated metastatic neuroendocrine tumours

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⁶⁸Ga-labeled cyclic RGD dimers with Gly₃ and PEG₄ linkers: Promising agents for tumor integrin $\alpha_v\beta_3$ PET imaging

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Radiat Prot Dosimetry 2009 **134** (2) 79-86

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Cornelissen B, Kersemans V, McLarty K, Tran L, Reilly RM// *Univ Toronto, Leslie Dan Fac Pharm, Dept Pharmaceut Sci, 144 College St, Toronto, Ontario, Canada M5S 3M2

Cancer Biother Radiopharm 2009 **24** (2) 163-173

¹¹¹In-labeled immunoconjugates (ICs) bispecific for the epidermal growth factor receptor (EGFR) and cyclin-dependent kinase inhibitor, p27^{Kip1}

Deutscher SL, Figueroa SD, Kumar SR// *Univ Missouri Sch Med, Dept Biochem, Columbia, Mo 65211, USA

Nucl Med Biol 2009 **36** (2) 137-146

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Guo H, Shenoy N, Gershman BM, Yang J, Sklar LA, Miao Y// *Univ New Mexico, Coll Pharm, Albuquerque, NM 87131, USA

Nucl Med Biol 2009 **36** (3) 267-276

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Hoang B, Lee H, Reilly RM, Allen C// *Univ Toronto, Dept Pharmaceut Sci, 144 College St, Toronto, Ontario, Canada M5S 3M2

Mol Pharmacol 2009 **6** (2) 581-592

Noninvasive monitoring of the fate of ¹¹¹In-labeled block copolymer micelles by high resolution and high sensitivity microSPECT/CT imaging

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Cancer Biother Radiopharm 2009 **24** (2) 195-200

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J Nucl Cardiol 2009 **16** (1) 97-104

Intra-patient reproducibility of myocardial SPECT imaging with ²⁰¹Tl

Marques F, Gano L, Batista MKS, Gomes CAR, Gomes P, Santos I// Inst Tecnol & Nucl, Estrada Nacional 10, PT-2686-953 Sacavem, Portugal

J Labelled Comp Radiopharm 2009 **52** (3) 79-83

Radiochemical and biological evaluation of novel ¹⁵³Sm/¹⁶⁶Ho-amino acid-chitosan complexes

Vanzi E, Genovesi D, Di Martino F// Univ Florence, Dept Clin Pathophysiol, Nucl Med Unit, IT-50134 Florence, Italy

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Cancer Biother Radiopharm 2009 **24** (2) 271-275

The role of dosimetry in the high activity ⁹⁰Y-ibritumomab tiuxetan regimens: Two cases of abnormal biodistribution

Cagnolini A, D'Amelio N, Metcalfe E, Nguyen HD, Aime S, Swenson RE, Linder KE// *Bracco Res USA Inc, Ernst Felder Labs, 305 College Rd East, Princeton, NJ 08540, USA

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Isolation of a ¹⁷⁷Hf complex formed by β -decay of a ¹⁷⁷Lu-labeled radiotherapeutic compound and NMR structural elucidation of the ligand and its Lu and Hf complexes

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

Nucl Med Commun 2009 **30** (5) 362-367

Preparation of ¹⁶⁶Ho-oxine-lipiodol and its preliminary bioevaluation for the potential application in therapy of liver cancer

Dauer LT, Boylan DC, Williamson MJ, Germain JS, Larson SM// Memorial Sloan Kettering Canc Ctr, 1275 York Ave, New York, NY 10021, USA

Health Phys 2009 **96** (5) 550-557

Clearance kinetics and external dosimetry of ¹³¹I-labeled murine and humanized monoclonal antibody A33 in patients with colon cancer: Radiation safety implications

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Ann Oncol 2009 **20** (4) 709-714

Prospective trial of targeted radioimmunotherapy with ⁹⁰Y ibritumomab tiuxetan (Zevalin) for front-line treatment of early-stage extranodal indolent ocular adnexal lymphoma

Loeb DM, Garrett-Mayer E, Hobbs RF, Prideaux AR, Sgouros G, Sholek O, Wharam MD, Scott T, Schwartz CL// Johns Hopkins Univ, Johns Hopkins Sch Med, Div Pediat Oncol, Sydney Kimmel Comprehensive Canc Ctr, Baltimore, Md 21231, USA

Cancer 2009 **115** (11) 2514-2522

Dose-finding study of ¹⁵³Sm-EDTMP in patients with poor-prognosis osteosarcoma

Lungu V, Chipere D, Anghel R, Postolache C, Matei L, Barna C, Bubueanu G// Horia Hulubei Natl Inst Phys & Nucl Engn, Bucharest, Romania
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