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Current awareness in labelled compounds and radiopharmaceuticals

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1 Radionuclide production

Ballinger JR// Guy's & St Thomas Hosp, Dept Nucl Med, Great Maze Pond, London SE1 9RT, England

J Labelled Comp Radiopharm 2010 **53** (4) 167-168

^{99m}Tc shortage in nuclear medicine: Crisis or challenge?

Burke P, Golovko O, Clark JC, Aigbirhio FI// *Univ Cambridge, Addenbrookes Hosp, Wolfson Brain Imaging Ctr, Box 65, Cambridge CB2, England

Inorg Chim Acta 2010 **363** (6) 1316-1319

An automated method for regular productions of copper-64 for PET radiopharmaceuticals

Chakravarty R, Shukla R, Tyagi AK, Dash A*, Venkatesh M// *Bhabha Atomic Res Ctr, Radiopharmaceut Div, IN-400085 Mumbai, India

Appl Radiat Isot 2010 **68** (2) 229-238

Nanocrystalline zirconia: A novel sorbent for the preparation of ¹⁸⁸W/¹⁸⁸Re generator

Powe J, Worsley D, Ruth T// Vancouver Gen Hosp, Div Nucl Med, 855 West 12th St, Vancouver, Brit Columbia, Canada V5Z 1M9

Can Assoc Radiol J 2010 **61** (1) 19-22

Radioisotope shortages in nuclear medicine: How we got there and developing solutions

Szucs Z, Moolman D, Verryn S, Zeevaart JR// *NWU, CARST, POB 582, ZA-0001 Pretoria, Rep Sth Africa

J Radioanal Nucl Chem 2010 **284** (1) 239-243

The metal rhodium does not have allotropes

Talaat HM, El-Mohty AA, El-Kolaly MT// Labelled Cpd Dept, PO 13759, Cairo, Egypt

J Radioanal Nucl Chem 2010 **284** (1) 1-5

Production of carrier free ¹⁸⁸Re radioisotope generator based on aluminum tungstate matrix

Tarkanyi F, Hermanne A, Kiraly B*, Takacs S, Ignatyuk AV// *HAS, ATOMKI, Inst Nucl Res, Bem ter 18/c, HU-4026 Debrecen, Hungary

Appl Radiat Isot 2010 **68** (3) 404-411

Study of excitation functions of α -particle induced nuclear reactions on holmium for ¹⁶⁷Tm production

Tarkanyi F, Hermanne A, Takacs S, Kiraly B*, Spahn I, Ignatyuk AV// *Address as above

Appl Radiat Isot 2010 **68** (2) 250-255

Experimental study of the excitation functions of proton induced nuclear reactions on ¹⁶⁷Er for production of medically relevant ¹⁶⁷Tm

2 Labelled compound synthesis

Abiraj K, Mansi R, Tamma ML, Forrer F, Cescato R, Reubi JC, Akyel KG, Maecke HR// *Univ Freiburg, Dept Nucl Med, Hugstetterstr 55, DE-79106 Freiburg, Germany

Chemistry 2010 **16** (7) 2115-2124

Tetraamine-derived bifunctional chelators for technetium-99m labelling: Synthesis, bioconjugation and evaluation as targeted SPECT imaging probes for GRP-receptor-positive tumours

Al-Maharik N, Botting NP// *Univ St Andrews, Sch Chem, St Andrews, Fife KY16 9ST, Scotland

J Labelled Comp Radiopharm 2010 **53** (3) 95-103

A versatile synthesis of [2,3,4-¹³C₃]isoflavones

Apana SM, Anderson LW, Berridge MS// *3D Imaging LLC, UAMS Radiol 556, Cyclotron Suite Rm PS010, 4301 West Markham St, Little Rock, Ar 72205, USA

J Labelled Comp Radiopharm 2010 **53** (4) 178-182

Synthesis and biodistribution of [¹¹C]SN-38

Arns S, Moreau A, Young RN// *Simon Fraser Univ, Dept Chem, 8888 University Dr, Burnaby, Brit Columbia, Canada V5A 1S6

J Labelled Comp Radiopharm 2010 **53** (4) 205-207

Asymmetric [³H]-labeling using ruthenium catalyzed transfer hydrogenation

Auchampach JA, Gizewski ET, Wan TC, De Castro S, Brown GG, Jacobson KA// Med Coll Wisconsin, Dept Pharmacol & Toxicol, 8701 Watertown Plank Rd, Milwaukee, WI 53226, USA

Biochem Pharmacol 2010 **79** (7) 967-973

Synthesis and pharmacological characterization of [¹²⁵I]MRS5127, a high affinity, selective agonist radioligand for the A₃ adenosine receptor

Benkovsky I, Stanik R// Comenius University, Faculty Pharm, Department Pharmaceut Anal & Nuclear Pharm, Odbojarov 10, SK-83232 Bratislava, Slovakia

J Radioanal Nucl Chem 2010 **284** (1) 231-237

^{99m}Tc-DMSA complex preparation: The effect of pH and tin(II) chloride amount on reaction

Chattopadhyay S, Das SS, Chandra S, De K, Mishra M, Sarkar BR, Sinha S, Ganguly S// Board Radiation & Isotope Technol, Radiopharmaceut Lab, Ctr Variable Energy Cyclotron, IN-700064 Kolkata, India

Appl Radiat Isot 2010 **68** (2) 314-316

Synthesis and evaluation of ^{99m}Tc-moxifloxacin, a potential infection specific imaging agent

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.

- De Keczzer SA, Voronin T, Yao J, Zhang FJ, Masjedizadeh MR// Roche Palo Alto, 3431 Hillview Ave, Palo Alto, Ca 94304, USA
J Labelled Comp Radiopharm 2010 **53** (3) 110-112
 Simple single-step single-enzyme synthesis of [¹⁴C]-GSH
- De Saint-Hubert M, Mottaghy FM, Vunckx K, Nuyts J, Fonge H, Prinsen K, Stroobants S, Mortelmans L, Deckers N, Hofstra L, Reutelingsperger CP, Verbruggen A*, Rattat D// *Katholieke Univ Leuven, Fac Pharmaceut Sci, Lab Radiopharm, O&N 2, Box 821, Herestraat 49, BE-3000 Louvain, Belgium
Bioorg Med Chem 2010 **18** (3) 1356-1363
 Site-specific labeling of 'second generation' annexin V with ^{99m}Tc(CO)₃ for improved imaging of apoptosis *in vivo*
- Derdau V, Fey T, Atzrodt J// Sanofi Aventis Deutschland GmbH, Isotope Chem & Metabolite Synth, G876, DE-65926 Frankfurt, Germany
Tetrahedron 2010 **66** (7) 1472-1482
 Synthesis of isotopically labelled SGLT inhibitors and their metabolites
- Dorbes S, Mestre-Voegtle B, Coulais Y, Picard C, Silvente-Poirot S, Poirot M, Benoist E*// *Univ Toulouse/UPS, SPCMIB, CNRS, UMR 5068, Lab Synth & Phys Chim Mol Interet Biol, 119 Route Narbonne, FR-31062 Toulouse 9, France
Eur J Med Chem 2010 **45** (2) 423-429
 Synthesis, characterization and *in vitro* evaluation of new oxorhenium- and oxotechnetium-CCK4 derivatives as molecular imaging agents for CCK2-receptor targeting
- Eersels JH, Mertens J, Herscheid JDM// Vrije Univ Amsterdam Med Ctr, Dept Nucl Med & PET Res, Radionuclide Ctr, De Boelelaan 1085c, NL-1081 HV Amsterdam, The Netherlands
Appl Radiat Isot 2010 **68** (2) 309-313
 The Cu⁺-assisted radioiodination kit: Mechanistic study of unexplored parameters concerning the acidity and redox properties of the reaction medium
- Faraldos JA, Wu SQ, Chappell J, Coates RM*// *Univ Illinois, Dept Chem, 600 Sth Matthews Ave, Urbana, IL 61801, USA
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 Doubly deuterium-labeled patchouli alcohol from cyclization of singly labeled [2-²H₁] farnesyl diphosphate catalyzed by recombinant patchouli synthase
- Ferreira CL, Lamsa E, Woods M, Duan Y, Fernando P, Bensimon C, Kordos M, Guenther K, Jurek P, Kiefer GE// MDS Nordion, 4004 Westbrook Mall, Vancouver, Brit Columbia, Canada V6T 2A3
Bioconjug Chem 2010 **21** (3) 531-536
 Evaluation of bifunctional chelates for the development of gallium-based radiopharmaceuticals
- Filer CN// PerkinElmer Hlth Sci Inc, 549 Albany St, Boston, Ma 02118, USA
J Labelled Comp Radiopharm 2010 **53** (3) 120-129
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Bioorg Med Chem Lett 2010 **20** (5) 1565-1568
 Radiosynthesis of novel carbon-11-labeled triaryl ligands for cannabinoid-type 2 receptor
- Gao MZ, Wang M, Hutchins GD, Zheng QH*// *Indiana Univ Sch Med, Dept Radiol, 1345 West 16th St, Indianapolis, In 46202, USA
Appl Radiat Isot 2010 **68** (3) 459-465
 Synthesis of carbon-11-labeled piperidine ring of *N*-[ω-(6-methoxynaphthalen-1-yl)alkyl] derivatives as new selective PET σ₁ receptor probes
- Gao MZ, Wang M, Miller KD, Hutchins GD, Zheng QH*// *Indiana Univ, Dept Radiol & Imaging Sci, 1345 West 16th St, Indianapolis, In 46202, USA
Bioorg Med Chem 2010 **18** (6) 2099-2106
 Synthesis and *in vitro* biological evaluation of carbon-11-labeled quinoline derivatives as new candidate PET radioligands for cannabinoid CB2 receptor imaging
- Hazari PP, Shukla G, Goel V, Chuttani K, Kumar N, Sharma R, Mishra AK*// *Brig SK Mazumdar Rd, IN-110054 Delhi, India
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 Synthesis of specific SPECT-radiopharmaceutical for tumor imaging based on methionine: ^{99m}Tc-DTPA-bis(methionine)
- Holanda CMX, Silva MF, Alves RC, Barbosa VSA, Silva RP, Rocha LG, Medeiros AC// Univ Fed Rio Grande do Norte, Dept Microbiol & Parasitol, Ctr Biotecnologias, Av Salgado Filho 3000, BR-59078-970 Natal, RN, Brazil
Cell Mol Biol (Noisy-le-Grand) 2009 **55** (3) 23-28
 The effect of the Rochagan™ on radiolabeling with ^{99m}Tc
- Hruby M, Kucka J, Novakova M, Mackova H, Vetric M// ASCR, vvi, Inst Macromol Chem, Heyrovsky Sq 2, CZ-16206 Prague 6, Czech Republic
Appl Radiat Isot 2010 **68** (2) 334-339
 New coupling strategy for radionuclide labeling of synthetic polymers
- Huetting R, Christlieb M*, Dilworth JR, Garayoa EG, Gounerneur V, Jones MW, Maes V, Schibli R, Sun X, Tourwe DA// *Univ Oxford, Gray Inst Radiat Oncol & Biol, Old Rd Campus Res Bldg, Old Rd Campus, Oxford OX3 7DQ, England
Dalton Trans 2010 **39** (15) 3620-3632
 Bis(thiosemicarbazones) as bifunctional chelators for the room temperature 64-copper labeling of peptides
- Jalilian AR, Yousefnia H, Zolghadri S, Khoshdel MR, Bolourinovin F, Rahiminejad A// BSTRI, RRDL, PO Box 14155-1339, Tehran, Iran
J Radioanal Nucl Chem 2010 **284** (1) 49-54
 Development of radiogallium-ethylenecysteine cysteine complex as a possible renal imaging agent
- James D, Escudier JM, Amigues E, Schulz J, Vitry C, Bordenave T, Szlosek-Pinaud M*, Fouquet E// *Univ Bordeaux, Inst Mol Sci, CNRS UMR 5255, 351 Cours Liberation, FR-33405 Talence, France
Tetrahedron Lett 2010 **51** (8) 1230-1232
 A 'click chemistry' approach to the efficient synthesis of modified nucleosides and oligonucleotides for PET imaging
- Kachur AV, Dolbier WR, Xu W, Koch CJ// Univ Pennsylvania Sch Med, Dept Radiat Oncol, 195 John Morgan Bldg, Philadelphia, Pa 19104, USA
Appl Radiat Isot 2010 **68** (2) 293-296
 Catalysis of fluorine addition to double bond: An improvement of method for synthesis of ¹⁸F PET agents
- Kim DH, Choe YS*, Kim BT// *Sungkyunkwan Univ, Sch Med, Dept Nucl Med, Ctr Mol & Cellular Imaging, Seoul 135 710, South Korea
Appl Radiat Isot 2010 **68** (2) 329-333
 Evaluation of 4-[¹⁸F]fluoro-1-butyne as a radiolabeled synthon for click chemistry with azido compounds
- Kitson SL, Jones S, Watters W, Chan F, Madge D// Almac Sci, Isotope Chem Lab, Almac House, 20 Seagoe Ind Estate, Craigavon BT63 5QD, Northern Ireland
J Labelled Comp Radiopharm 2010 **53** (3) 140-146
 Carbon-14 radiosynthesis of 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)-[4-¹⁴C]quinolin-2(1H)-one (XEN-D0401, a novel BK channel activator
- Koehler L, Graf F, Bergmann R, Steinbach J, Pietzsch J, Wuest F*// *Res Ctr Dresden Rossendorf, Inst Radiopharm, Dresden, Germany
Eur J Med Chem 2010 **45** (2) 727-737
 Radiosynthesis and radiopharmacological evaluation of cyclin-dependent kinase 4 (Cdk4) inhibitors
- Kumar P, Naimi E, McEwan AJ, Wiebe LI// Univ Alberta, Cross Canc Inst, Div Oncol, 11560 University Ave, Edmonton, Alberta, Canada T6G 1Z2
Bioorg Med Chem 2010 **18** (6) 2255-2264
 Synthesis, radiofluorination, and hypoxia-selective studies of FRAZ: A configurational and positional analogue of the clinical hypoxia marker, [¹⁸F]-FAZA
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J Nucl Med 2010 **51** (3) 454-461
 A novel facile method of labeling octreotide with ¹⁸F fluorine
- Lebedev AY, Holland JP, Lewis JS*// *Memorial Sloan Kettering Canc Ctr, Dept Radiol, Radiochem Serv, 1275 York Ave, New York, NY 10065, USA
Chem Commun 2010 **46** (10) 1706-1708
 Clickable bifunctional radiometal chelates for peptide labeling
- Li RF, Wu SC, Wang SC*, Fu Z, Dang YH, Huo L// *Chinese Acad Med Sci, Peking Union Med Coll Hosp, Dept Nucl Med, CN-100730 Beijing, Peoples Rep China
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 Synthesis and evaluation of L-5-(2-[¹⁸F]fluoroethoxy)tryptophan as a new PET tracer
- Lim SC, Price KA, Chong SF, Paterson BM, Caragounis A, Barnham KJ, Crouch PJ, Peach JM, Dilworth JR, White AR, Donnelly PS*// *Univ Melbourne, Sch Chem, Parkville, Vic 3010, Australia
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 Copper and zinc bis(thiosemicarbazono) complexes with a fluorescent tag: Synthesis, radiolabelling with copper-64, cell uptake and fluorescence studies

- Lipowska M, He HY, Xu XL, Taylor AT, Marzilli PA, Marzilli LG*// *Louisiana State Univ, Dept Chem, Baton Rouge, La 70803, USA
Inorg Chem 2010 **49** (7) 3141-3151
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Labeling and glycosylation of peptides using click chemistry: A general approach to ¹⁸F-glycopeptides as effective imaging probes for positron emission tomography
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- Meszaros LK, Dose A, Biagini SCG, Blower PJ*// *KCL, St Thomas Hosp, Rayne Inst, Div Imaging Sci, 4th Floor Lambeth Wing, London SE1 7EH, England
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Hydrazinonicotinic acid (HYNIC) - Coordination chemistry and applications in radiopharmaceutical chemistry (Review)
- Motaleb MA// Atomic Energy Authority, Labeled Compound Dept, Hot Lab Ctr, PO Box 13759, Cairo, Egypt
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J Labelled Comp Radiopharm 2010 **53** (4) 172-177
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Full automation of ⁶⁸Ga labelling of DOTA-peptides including cation exchange prepurification
- Olberg DE, Arukwe JM, Grace D, Hjelstuen OK, Solbakken M, Kindberg GM, Cuthbertson A// Univ Tromso, Inst Pharm, Dept Pharmaceut & Biopharmaceut, NO-9037 Tromso, Norway
J Med Chem 2010 **53** (4) 1732-1740
One step radiosynthesis of 6-[¹⁸F]fluoronicotinic acid 2,3,5,6-tetrafluorophenyl ester ([¹⁸F]F-Py-TFP): A new prosthetic group for efficient labeling of biomolecules with fluorine-18
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Rhenium(I) and technetium(I) fac-M(NSO)(CO)₃ (M = Re, ^{99m}Tc) tricarbonyl complexes, with a tridentate NSO bifunctional agent: Synthesis, structural characterization, and radiochemistry
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Radiosynthesis and *in vivo* evaluation of a ¹⁸F-labeled pancreatic islet amyloid inhibitor
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- Priego-Capote F, Scherl A, Muller M, Waridel P, Lisacek F, Sanchez JC*// *Univ Geneva, DBSB, Biomed Proteomics Res Grp, CMU, Univ Med Ctr, rue Michel Servet 1, CH-1211 Geneva 4, Switzerland
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Synthesis, biodistribution and evaluation of ^{99m}Tc-sitafloxacin kit: A novel infection imaging agent
- Rahman O, Erlandsson M, Blom E, Langstrom B// GE Healthcare, Uppsala Appl Sci Lab, SE-75228 Uppsala, Sweden
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Automated synthesis of ¹⁸F-labelled analogs of metomidate, vorozole and harmine using commercial platform
- Retzlöff LB, Heinzke L, Figureoa SD, Sublett SV, Ma LX, Sieckman GL, Rold TL, Santos I, Hoffman TJ, Smith CJ*// *Univ Missouri, Radiopharmaceut Sci Inst, 143 Major Hall, Columbia, Mo 65211, USA
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Synthesis, characterization and biological activity of ^{99m}Tc-labeled piperidine analogues targeting sigma receptors
- Seidel D, Pleiss U// Bayer Schering Pharma AG, Bayer Schering Pharma, Global Drug Discovery, Global Early Dev, Drug Metab & Pharmacokinetics, Dev Pharmacokinetics, Isotope Chem, Aprather Weg 18a, DE-42096 Wuppertal, Germany
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Synthesis of deuterium-labelled fosamprenavir calcium

Sun X, Chu TW*, Wang XY// *Peking Univ, Coll Chem & Mol Engn, Dept Appl Chem, BNLMs, CN-100871 Beijing, Peoples Rep China
Nucl Med Biol 2010 **37** (2) 117-123

Preliminary studies of ^{99m}Tc-BnAO and its analogues: Synthesis, radio-labeling and *in vitro* cell uptake

Sundararajan C, Besanger TR, Labiris R, Guenther KJ, Strack T, Garafalo R, Kawabata TT, Finco-Kent D, Zubieta J, Babich JW, Valliant JF*// *McMaster Univ, Dept Chem, 1280 Main St West, Hamilton, Ontario, Canada L8S 4M1

J Med Chem 2010 **53** (6) 2612-2621

Synthesis and characterization of rhenium and technetium-99m labeled insulin

Swahn BM, Wensbo D, Sandell J, Sohn D, Slivo C, Pyring D, Malmstom J, Arzel E, Vallin M, Bergh M, Jeppsson F, Johnson AE, Jureus A, Neelissen J, Svensson S// AstraZeneca R&D Sodertalje, Dept Med Chem, SE-15185 Sodertalje, Sweden

Bioorg Med Chem Lett 2010 **20** (6) 1976-1980

Synthesis and evaluation of 2-pyridylbenzothiazole, 2-pyridylbenzoxazole and 2-pyridylbenzofuran derivatives as ¹¹C-PET imaging agents for β -amyloid plaques

Tang GH, Tang XL, Li HS, Wang MF, Li BY, Liang MQ, Wu HB, Wang QS// First Affiliated Hosp, Sun Yat Sen Univ, Dept Nucl Med, PET CT Ctr, CN-510080 Guangzhou, Guangdong, Peoples Rep China

Nucl Med Commun 2010 **31** (3) 211-216

A simplified one-pot automated synthesis of [¹⁸F]FHBG for imaging reporter gene expression

Valdivia AC, Mason S, Collins J, Buckley KR, Coletta P, Beanlands RS, DaSilva JN*// *Univ Ottawa, Heart Inst, Natl Cardiac PET Ctr, 40 Ruskin St, Ottawa, Ontario, Canada K1Y 4W7

Appl Radiat Isot 2010 **68** (2) 325-328

Radiosynthesis of *N*-[¹¹C]-methyl-hydroxyfasudil as a new potential PET radiotracer for rho-kinases (ROCKs)

Vercouillie J, Prenant C, Maia S, Emond P, Guillouet S, Deloye JB, Barre L, Guilloateau D// Univ Francois Rabelais Tours, UMR-S930, CNRS FRE 2448, Tours, France

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Automated production of [¹⁸F]FDG using a TRACERlab MX_{FDG}

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Nucl Med Commun 2010 **31** (4) 274-279

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J Nucl Med 2009 **50** (11) 1785-1793

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Nucl Med Commun 2010 **31** (4) 320-327

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Welling MM, Alberto R// Leiden University Medical Centre, Dept Radiol, Nucl Med Sect, Mol Imaging Labs Leiden, NL-2333 ZA Leiden, The Netherlands

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J Nucl Med 2009 **50** (8) 1378-1383

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J Nucl Med 2009 **50** (8) 1237-1243

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Nucl Med Biol 2010 **37** (2) 189-196

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J Nucl Med 2009 **50** (8) 1332-1339

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J Nucl Med 2009 **50** (12) 1948-1953

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J Nucl Med 2010 **51** (3) 353-359

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Gabriel M, Oberauer A, Dobrozemsky G, Decristoforo C, Putzer D, Kendler D, Uprimmy C, Kovacs P, Bale R, Virgolini IJ// Innsbruck Med Univ, Dept Nucl Med, Anichstr 35, AT-6020 Innsbruck, Austria

J Nucl Med 2009 **50** (9) 1427-1434

^{68}Ga -DOTA-Tyr³-octreotide PET for assessing response to somatostatin-receptor-mediated radionuclide therapy

Hanin FX, Pauwels S, Bol A, Breeman W, De Jong M, Jamar F// Univ Catholique Louvain, Mol Imaging & Expt Radiotherapy Unit, BE-1200 Brussels, Belgium

Nucl Med Biol 2010 **37** (2) 157-165

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J Nucl Med 2009 **50** (12) 1927-1932

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J Nucl Med 2009 **50** (8) 1214-1221

Bone metastases in patients with neuroendocrine tumor: ^{68}Ga -DOTA-Tyr³-octreotide PET in comparison to CT and bone scintigraphy

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J Nucl Med 2009 **50** (9) 1492-1499

A 2-helix small protein labeled with ^{68}Ga for PET imaging of HER2 expression

Zimmerman BE, Cessna JT// NIST, Ionizing Radiat Div, 100 Bureau Dr, Bldg 245, Rm C114, Gaithersburg, Md 20899, USA

J Nucl Med 2010 **51** (3) 448-453

Development of a traceable calibration methodology for solid $^{68}\text{Ge}/^{68}\text{Ga}$ sources used as a calibration surrogate for ^{18}F in radionuclide activity calibrators

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Guo HX, Yang JQ, Gallazzi F, Miao YB*// *Univ New Mexico, Coll Pharm, 2502 Marble NE, Albuquerque, NM 87131, USA

J Nucl Med 2010 **51** (3) 418-426

Reduction of the ring size of radiolabeled lactam bridge-cyclized α -MSH peptide, resulting in enhanced melanoma uptake

McLarty K, Cornelissen B, Cai ZL, Scollard DA, Costantini DL, Done SJ, Reilly RM*// *Univ Toronto, Leslie Dan Fac Pharm, Dept Pharmaceut Sci, 144 College St, Toronto, Ontario, Canada M5S 3M2

J Nucl Med 2009 **50** (8) 1340-1348

Micro-SPECT/CT with ^{111}In -DTPA-pertuzumab sensitivity detects trastuzumab-mediated HER2 downregulation and tumor response in athymic mice bearing MDA-MB-361 human breast cancer xenografts

Sogawa C, Tsuji AB*, Sugyo A, Yoshida C, Odaka K, Uehara T, Arano Y, Koizumi M, Saga T// *Nat'l Inst Radiol Sci, Mol Imaging Ctr, Diagn Imaging Grp, Chiba 263 8555, Japan

Nucl Med Biol 2010 **37** (2) 179-187

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J Nucl Med 2009 **50** (12) 2082-2089

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Eur J Nucl Med Mol Imaging 2010 **37** (3) 613-622

Imaging of EGFR expression in murine xenografts using site-specifically labeled anti-EGFR ^{111}In -DOTA-Z_{EGFR,2377} Affibody molecule: Aspect of the injected tracer amount

Wong KK, Cahill JM, Frey KA, Avram AM// Univ Michigan Med Ctr, Dept Nucl Med Radiol, 1500 East Med Ctr Dr, Ann Arbor, Mi 48109, USA

Acad Radiol 2010 **17** (3) 291-297

Incremental value of ^{111}In pentetate SPECT/CT fusion imaging of neuroendocrine tumors

13 Others

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J Nucl Med 2009 **50** (11) 1828-1836

Radiation dosimetry of ^{89}Zr -labeled chimeric monoclonal antibody U36 as used for immuno-PET in head and neck cancer patients

Burkhard N, Herzog BA, Husmann L, Pazhenkottil AP, Burger IA, Buechel RR, Valenta I, Wyss CA, Kaufmann PA*// *Univ Zurich Hosp, NUK C42, Ramistr 100, CH-8091 Zurich, Switzerland

Eur J Nucl Med Mol Imaging 2010 **37** (3) 517-521

Coronary calcium score scans for attenuation correction of quantitative PET/CT ^{13}N -ammonia myocardial perfusion imaging

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Buckley SE, Chittenden SJ, Saran FH, Meller ST, Flux GD*// *Royal Marsden NHS Fdn Trust, Dept Phys, Downs Rd, Sutton SM2 5PT, England

J Nucl Med 2009 **50** (9) 1518-1524

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Cai ZL, Pignol JP, Chan C, Reilly RM*// *Univ Toronto, Leslie Dan Fac Pharm, Dept Pharmaceut Sci, 144 College St, Toronto, Ontario, Canada M5S 3M2

J Nucl Med 2010 **51** (3) 462-470

Cellular dosimetry of ^{111}In using Monte Carlo N-particle computer code: Comparison with analytic methods and correlation with *in vitro* cytotoxicity

Chan CR, Cai ZL, Su RF, Reilly RM*// *Univ Toronto, Leslie Dan Fac Pharm, Dept Pharmaceut Sci, Toronto, Ontario, Canada M5S 3M2

Nucl Med Biol 2010 **37** (2) 105-115

^{111}In - or ^{99m}Tc -labeled recombinant VEGF bioconjugates: *In vitro* evaluation of their cytotoxicity on porcine aortic endothelial cells overexpressing Flt-1 receptors

Chen MH, Chang CH, Chang YJ, Chen LC, Yu CY, Wu YH, Lee WC, Yeh CH, Lin FH, Lee TW, Yang CS, Ting G*// *Nat'l Hlth Res Inst, Ctr Nanomed Res, 4/F 123-2 Sect 1 Wan Mei St, Taipei 116, Taiwan

Anticancer Res 2010 **30** (1) 65-72

MicroSPECT/CT imaging and pharmacokinetics of ^{188}Re -DXR-liposome in human colorectal adenocarcinoma-bearing mice

Chen Y, Xiong QF, Yang XQ, He L, Huang ZW// Affiliated Hosp, Luzhou Med Coll, Dept Nucl Med, CN-646000 Luzhou, Sichuan, Peoples Rep China
Am J Roentgenol 2010 **194** (3) 761-765

Evaluation of ¹⁸⁸Re-DTPA-deoxyglucose as a potential cancer radiopharmaceutical

Chow TH, Lin YY, Hwang JJ*, Wang HE, Tseng YL, Pang VF, Liu RS, Lin WJ, Yang CS, Ting G// *Nat'l Yang Ming Univ, Dept Biomed Imaging & Radiol Sci, 155 Li Nong St Sect 2, Taipei 112, Taiwan
J Nucl Med 2009 **50** (12) 2073-2081

Therapeutic efficacy evaluation of ¹¹¹In-labeled PEGylated liposomal vinorelbine in murine colon carcinoma with multimodalities of molecular imaging

Costantini DL, Villani DF, Vallis KA, Reilly RM*// *Univ Toronto, Dept Pharmaceut Sci, 144 College St, Toronto, Ontario, Canada M5S 3M2
J Nucl Med 2010 **51** (3) 477-483

Methotrexate, paclitaxel, and doxorubicin radiosensitize HER2-amplified human breast cancer cells to the Auger electron-emitting radiotherapeutic agent ¹¹¹In-NLS-trastuzumab

Delaloye AB, Antonescu C, Louton T, Kuhlmann J, Hagenbeek A// CHU Vaudois, Dept Nucl Med, Bugnon 46, CH-1011 Lausanne, Switzerland
J Nucl Med 2009 **50** (11) 1837-1843

Dosimetry of ⁹⁰Y-ibritumomab tiuxetan as consolidation of first remission in advanced-stage follicular lymphoma: Results from the international phase 3 first-line indolent trial

Heute D, Kostron H, Von Guggenberg E, Ingorokva S, Gabriel M, Dobrozemsky G, Stockhammer G, Virgolini JJ*// *Med Univ Innsbruck, Dept Nucl Med, Anichstr 35, AT-6020 Innsbruck, Austria
J Nucl Med 2010 **51** (3) 397-400

Response of recurrent high-grade glioma to treatment with ⁹⁰Y-DOTATOC

Hobbs RF, Baechler S, Wahl RL, He B, Song H, Esaias CE, Frey EC, Jacene H, Sgouros G*// *Johns Hopkins Univ Sch Med, Dept Radiol, 1550 Orleans St, Baltimore, Md 21231, USA
J Nucl Med 2010 **51** (3) 368-375

Arterial wall dosimetry for non-Hodgkin lymphoma patients treated with radioimmunotherapy

Karacay H, Sharkey RM*, Gold DV, Ragland DR, McBride WJ, Rossi EA, Chang CH, Goldenberg DM// *Garden State Canc Center, Ctr Mol Med & Immunol, 520 Belleville Ave, Belleville, NJ 07109, USA
J Nucl Med 2009 **50** (12) 2008-2016

Pretargeted radioimmunotherapy of pancreatic cancer xenografts: TF10-⁹⁰Y-IMP-228 alone and combined with gemcitabine

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