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# Current awareness in labelled compounds and radiopharmaceuticals

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### 1 Radionuclide production

Chakravarty R, Dash A\*, Venkatesh M// \*Bhabha Atomic Res Ctr, Radiopharmaceut Div, IN-400085 Mumbai, India  
*Chromatographia* 2009 **69** (11-12) 1363-1372  
Separation of clinical grade  $^{188}\text{Re}$  from  $^{188}\text{W}$  using polymer embedded nanocrystalline titania

Guseva LI// Russian Acad Sci, VI Vernadsky Inst Geochem & Anal Chem, Kosygin St 19, RU-119991 Moscow, Russia  
*J Radioanal Nucl Chem* 2009 **281** (3) 577-583

A tandem generator system for production of  $^{223}\text{Ra}$  and  $^{211}\text{Pb}/^{211}\text{Bi}$  in DTPA solutions suitable for potential application in radiotherapy

Holland JP, Sheh YC, Lewis JS\*// \*Memorial Sloan Kettering Cancer Center, Department Radiology, 1275 York Avenue, New York, NY 10065, USA

*Nucl Med Biol* 2009 **36** (7) 729-739

Standardized methods for the production of high specific-activity zirconium-89

Maiti M, Lahiri S\*// \*Saha Inst Nucl Phys, Div Chem Sci, 1/AF Bidhannagar, IN-700064 Kolkata, India

*J Radioanal Nucl Chem* 2009 **281** (3) 501-504

Production and separation of no-carrier-added  $^{208}\text{At}$ ,  $^{209}\text{At}$ ,  $^{210}\text{At}$  produced from heavy ion activation on natural thallium target

Omara HM, Hassan KF, Kandil SA, Hegazy FE, Saleh ZA\*// \*Atomic Energy Authority, Nuclear Research Centre, Cyclotron Project, Cairo, Egypt

*Radichim Acta* 2009 **97** (9) 467-471

Proton induced reactions on  $^{89}\text{Y}$  with particular reference to the production of the medically interesting radionuclide  $^{89}\text{Zr}$

Peitl PK, Tomse P, Kroselj M, Socan A, Hojker S, Pecar S, Stopar TG// Univ Medical Ctr Ljubljana, Dept Nucl Med, Zaloska 7, SI-1000 Ljubljana, Slovenia

*Nucl Med Commun* 2009 **30** (10) 807-814

Influence of radiation source geometry on determination of  $^{111}\text{In}$  and  $^{90}\text{Y}$  activity of radiopharmaceuticals

Watanabe S, Watanabe S, Liang JX, Hanaoka H, Endo K, Ishioka NS// Japan Atomic Energy Agcy, Quantum Beam Sci Directorate, Plant Positron Imaging Grp, Takasaki, Gumma 370 1292, Japan

*Nucl Med Biol* 2009 **36** (6) 587-590

Chelating ion-exchange methods for the preparation of no-carrier-added  $^{64}\text{Cu}$

### 2 Labelled compound synthesis

Adelwohrer C, Takano T, Nakatsubo F, Rosenau T\*// \*University Nat Resources & Appl Life Sci Vienna, Dept Chem, Muthgasse 18, AT-1190 Vienna, Austria

*Biomacromolecules* 2009 **10** (10) 2817-2822

Synthesis of  $^{13}\text{C}$ -perlabelled cellulose with more than 99% isotopic enrichment by a cationic ring-opening polymerization approach

Amin AM, El-Azony KM\*, Ibrahim IT// \*Atomic Energy Authority, Radioactive Isotope & Generators Dept, Hot Labs Centre, PO Box 13759, Cairo, Egypt

*J Labelled Comp Radiopharm* 2009 **52** (11) 467-472

Application of  $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$  alumina generator in the labeling of metoprolol for diagnostic purposes

Amir N, Roohi S, Mushtaq A, Pervez S, Saeed S// Pakistan Inst Nucl Sci & Technol, Isotope Prod Div, PO Nilore, Islamabad, Pakistan

*Radichim Acta* 2009 **97** (9) 507-512

Comparative studies of S-bridged complexes of  $^{99\text{m}}\text{Tc}$  with fac(S)-[M(aet)<sub>3</sub>] (M = Rh<sup>III</sup>, Ir<sup>III</sup>; aet = 2-aminoethanethiolate)

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

*J Labelled Comp Radiopharm* 2009 **52** (9) 350-354

The first synthesis of [ $^{11}\text{C}$ ]oseltamivir: A tool for elucidating the relationship between Tamiflu and its adverse effects on the central nervous system

Baldwin JE, O'Neil EJ// Syracuse Univ, Dept Chem, Syracuse, NY 13244, USA

*J Labelled Comp Radiopharm* 2009 **52** (10) 427-430

Syntheses of three stable isotope-labeled ethylcyclopropanes

Bennacef I, Salinas CA, Bonasera TA, Gunn RN, Audrain H, Jakobsen S, Nabulsi N, Weinzimmer D, Carson RE, Huang Y, Holmes I, Micheli F\*, Heidebreder C, Gentile G, Rossi T, Laruelle M// \*GlaxoSmithKline Inc, Neurosci Ctr Excellence Drug Discovery, Verona, Italy

*Bioorg Med Chem Lett* 2009 **19** (17) 5056-5059

Dopamine D<sub>3</sub> receptor antagonists: The quest for a potentially selective PET ligand. Part 3: Radiosynthesis and *in vivo* studies

Blom E, Karimi F, Langstrom B\*// \*Dept Biochem & Organic Chem, Husargatan 3, Box 576, BMC, SE-75123 Uppsala, Sweden

*J Labelled Comp Radiopharm* 2009 **52** (12) 504-511

[ $^{18}\text{F}$ ]/ $^{19}\text{F}$  exchange in fluorine containing compounds for potential use in  $^{18}\text{F}$ -labelling strategies

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.

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*Eur J Med Chem* 2009 **44** (10) 4021-4027  
 Synthesis and characterization of rhenium and technetium-99m tricarbonyl complexes bearing the 4-[3-bromophenyl]quinazoline moiety as a biomarker for EGFR-TK imaging
- Celen S, Cleynhens J, Deroose C, De Groot T, Ibrahim A, Gijssbers R, Debysers Z, Mortelmans L, Verbruggen A, Bormans G\*// \*Katholieke Univ Leuven, Fac Pharmaceut Sci, Lab Radiopharm, Herestr 49, Bus 821, BE-3000 Louvain, Belgium  
*Bioorg Med Chem* 2009 **17** (14) 5117-5125  
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- Chapuis C, Cantatore C, Frankhauser P, Challand R, Riedhauser JJ// Firmenich Co, Corp R&D Div, POB 239, CH-1211 Geneva 8, Switzerland  
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- Datta S, Lightner DA\*// \*Univ Nevada, Dept Chem, Reno, Nv 89557, USA  
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- Easter JA, Burrell RC, Bonacorsi SJ, Balasubramanian B// Bristol-Myers Squibb Res & Dev, Dept Chem Synthesis, 5 Research Parkway, Mail Stop 4BC-313, Wallingford, Ct 06492, USA  
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- Elsinghorst PW, Gutschow M// Univ Bonn, Pharmaceut Inst, Pharmaceut Chem I, An der Immenburg 4, DE-53121 Bonn, Germany  
*J Labelled Comp Radiopharm* 2009 **52** (9) 360-365  
 Synthesis of <sup>2</sup>H- and <sup>13</sup>C-labelled sunitinib and its primary metabolite
- Filer CN// PerkinElmer Hlth Sci Inc, Winter St, Waltham, Ma 02451, USA  
*J Radioanal Nucl Chem* 2009 **281** (3) 521-530  
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Protective effects of hesperidin against genotoxicity induced by <sup>99m</sup>Tc-MIBI in human cultured lymphocyte cells

Li IH, Huang WS, Yeh CB, Liao MH, Chen CC, Shen LH, Liu JC, Ma KH\*// \*Nat'l Defense Med Ctr, Dept Biol & Anat, Taipei 114, Taiwan  
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Dual-isotope single-photon emission computed tomography for dopamine and serotonin transporters in normal and parkinsonian monkey brains

Mirtschink P, Stehr SN, Walther M, Pietzsch J, Bergmann R, Pietzsch HJ, Weichsel J, Pexa A, Dietrich P, Wunderlich G, Binas B, Kropp J, Deussen A// Tech Univ Dresden, Med Fac Carl Gustav Carus, Inst Physiol, DE-01307 Dresden, Germany  
*Nucl Med Biol* 2009 **36** (7) 833-843

Validation of <sup>99m</sup>Tc-labeled "4+1" fatty acids for myocardial metabolism and flow imaging Part 1: Myocardial extraction and biodistribution

Mirtschink P, Stehr SN, Walther M, Pietzsch J, Bergmann R, Pietzsch HJ, Weichsel J, Pexa A, Dietrich P, Wunderlich G, Binas B, Kropp J, Deussen A// Tech Univ Dresden, Med Fac Carl Gustav Carus, Inst Physiol, DE-01307 Dresden, Germany  
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Validation of <sup>99m</sup>Tc-labeled "4+1" fatty acids for myocardial metabolism and flow imaging Part 2. Subcellular distribution

Pereira MA, Mosqueira VCF, Carmo VAS, Ferrari CS, Reis ECO, Ramaldes GA, Cardoso VN\*// \*Univ Fed Minas Gerais, Fac Farm, Av Antonio Carlos 6627, BR-31270-901 Belo Horizonte, MG, Brazil  
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Biodistribution study and identification of inflammatory sites using nanocapsules labeled with <sup>99m</sup>Tc-HMPAO

Pissarek M, Meyer-Kirchthath J, Hohlfeld T, Vollmar S, Oros-Peusquens AM, Fogel U, Jacoby C, Krugel U, Schramm N// Res Ctr Julich, Inst Neurosci & Biophys Nucl Chem, Inb 4, Leo Brandt Str, DE-52428 Julich, Germany  
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Targeting murine heart and brain: Visualisation conditions for multi-pinhole SPECT with <sup>99m</sup>Tc- and <sup>123</sup>I-labelled probes

Saatchi K, Hafeli UO\*// \*Univ British Columbia, Fac Pharmaceut Sci, 2146 East Mall, Vancouver, Brit Columbia, Canada V6T 1Z3  
*Bioconj Chem* 2009 **20** (6) 1209-1217

Radiolabeling of biodegradable polymeric microspheres with [<sup>99m</sup>Tc(CO)<sub>3</sub>]<sup>+</sup> and *in vivo* biodistribution evaluation using microSPECT/CT imaging

Schillaci O, Spanu A, Tagliabue L, Filippi L, Danieli R, Palumbo B, Del Sole A, Madeddu G\*// \*Univ Sassari, Dept Nucl Med, Viale San Pietro 8, IT-07100 Sassari, Italy  
*Q J Nucl Med Mol Imaging* 2009 **53** (3) 281-289

SPECT/CT with a hybrid imaging system in the study of lower gastrointestinal bleeding with technetium-99m red blood cells

Shi JY, Kim YS, Chakraborty S, Jia B, Wang F, Liu S\*// \*Purdue Univ, Sch Hlth Sci, 550 Stadium Mall Dr, West Lafayette, In 47907, USA  
*Bioconj Chem* 2009 **20** (8) 1559-1568

2-Mercaptoacetylglucylglycyl (MAG<sub>2</sub>) as a bifunctional chelator for <sup>99m</sup>Tc-labeling of cyclic RGD dimers: Effect of technetium chelate on tumor uptake and pharmacokinetics

Sinha D, Shukla G, Tiwari AK, Chaturvedi S, Chuttani K, Chandra H, Mishra AK\*// \*Inst Nucl Med & Allied Sci, Div Cyclotron & Radiopharmaceut Sci, Brig SK Mazumdar Rd, IN-110054 Delhi, India  
*Chem Biol Drug Des* 2009 **74** (2) 159-164

<sup>99m</sup>Tc-DTPA-amino acids conjugate as specific SPECT pharmaceuticals for tumor imaging

Sobal G, Menzel J, Sinzinger H// Med Univ Vienna, Dept Nucl Med, Univ Clin Nucl Med, Wahringer Gurtel 18-20, AT-1090 Vienna, Austria  
*Bioconj Chem* 2009 **20** (8) 1547-1552

Optimal <sup>99m</sup>Tc radiolabeling and uptake of glucosamine sulfate by cartilage. A potential tracer for scintigraphic detection of osteoarthritis

Temma T, Sano K, Kuge Y\*, Kamihashi J, Takai N, Ogawa Y, Saji H// \*Kyoto Univ, Grad Sch Pharmaceut Sci, Dept Pathofunct Bioanal, Sakyo ku, Kyoto 606 8501, Japan  
*Biol Pharm Bull* 2009 **32** (7) 1272-1277

Development of a radiolabeled probe for detecting membrane type-1 matrix metalloproteinase on malignant tumors

Von Guggenberg E, Sallegger W, Helbok A, Ocak M, King R, Mather SJ, Decristoforo C// Innsbruck Med Univ, Dept Nucl Med, Anichstr 35, AT-6020 Innsbruck, Austria  
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Cyclic minigastrin analogues for gastrin receptor scintigraphy with technetium-99m: Preclinical evaluation

Wallace AM, Hoh CK, Limmer KK, Darrah DD, Schulteis G, Vera DR\*// \*University Calif San Diego, Moores UCSD Canc Ctr, La Jolla, Ca 92093, USA  
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Sentinel lymph node accumulation of Lymphoseek and <sup>99m</sup>Tc-sulfur colloid using a "2-day" protocol

Xiong CY, Lu W, Zhang R, Tian M, Tong W, Gelovani J, Li C\*// \*Univ Texas MD Anderson Canc Ctr, Dept Diagn Imaging, 1515 Holcombe Blvd, Houston, Tx 77030, USA  
*Chemistry* 2009 **15** (36) 8979-8984

Cell-permeable [<sup>99m</sup>Tc(CO)<sub>3</sub>]-labeled fluorogenic caspase 3 substrate for dual-modality detection of apoptosis

Zhang H, Jiang NY\*, Zhu L// \*Second Affiliated Hosp, Sun Yat Sen Univ, Dept Nucl Med, CN-510120 Guangzhou, Guangdong, Peoples Rep China  
*Chin Med J* 2009 **122** (16) 1907-1909

Experimental studies on imaging of infected site with <sup>99m</sup>Tc-labeled ciprofloxacin in mice

## 8 Iodine

Cain SM, Ruest T, Pimlott S, Patterson J, Duncan R, Dewar D\*, Sills GJ// \*Univ Glasgow, Wellcome Surg Inst, Div Clin Neurosci, Garscube Estate, Glasgow G61 1QH, Scotland  
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High resolution micro-SPECT scanning in rats using <sup>125</sup>I β-CIT: Effects of chronic treatment with carbamazepine

Goethals I, Ham H, Dobbeleir A, Santens P, D'Asseler Y// Ghent Univ Hosp, Dept Nucl Med, De Pintelaan 185, BE-9000 Ghent, Belgium  
*Nuklearmedizin* 2009 **48** (4) 173-178

The potential value of a pictorial atlas for aid in the visual diagnosis of <sup>123</sup>I FP-CIT SPECT scans

Liu SJ, Jia B, Qiao RR, Yang Z, Yu ZL, Liu ZF, Liu K, Shi JY, Ouyang H, Wang F, Gao MY\*// \*CAS, Inst Chem, Bei Yi Jie 2, CN-100190 Beijing, Peoples Rep China  
*Mol Pharmacol* 2009 **6** (4) 1074-1082

A novel type of dual-modality molecular probe for MR and nuclear imaging of tumor: Preparation, characterization and *in vivo* application

Sata N, Kawano T, Hamada N, Horinouchi T, Amitani S, Moriyama Y, Miyahara K// Shinkyo Hosp, Dept Cardiol & Cardiovasc Surg, 3-41-1 Usuki, Kagoshima 890 0073, Japan  
*Ann Nucl Med* 2009 **23** (7) 639-641

Predictor of underlying myocardial damage in normally functioning left ventricle with narrow QRS complex: Relationship between QRD duration at right ventricle pacing and iodine-123 metaiodobenzylguanidine myocardial scintigraphy

Stahschmidt A, Khalili P, Sun W, Machulla HJ, Knaus EE, Wiebe LI\*// \*1807 Cross Canc Inst, 11560 University Ave, Edmonton, Alberta, Canada T6C 1Z2  
*Nucleosides Nucleic Acids* 2009 **28** (5-7) 379-393

Biodistribution and imaging of 1-(2-deoxy-β-D-ribofuranosyl)-2,4-difluoro-5-[<sup>123</sup>/<sup>125</sup>I]iodobenzene (dRF[<sup>123</sup>/<sup>125</sup>I]IB), a nonpolar thymidine-mimetic nucleoside, in rats and tumor-bearing mice

## 9 Copper

Anderson CJ, Ferdani R// Washington Univ Sch Med, Mallinckrodt Inst Radiol, 510 St Kingshighway Blvd, Campus Box 8225, St Louis, Mo 63110, USA  
*Cancer Biother Radiopharm* 2009 **24** (4) 379-393

Copper-64 radiopharmaceuticals for PET imaging of cancer: Advances in pre-clinical and clinical research (Review)

Hanaoka H, Tominaga H, Yamada K, Paudyal P, Iida Y, Watanabe S, Paudyal B, Higuchi T, Oriuchi N, Endo K// Gunma Univ, Grad Sch Med, Dept Bioimaging Informat Anal, Maebashi, Gumma 371 8511, Japan  
*Ann Nucl Med* 2009 **23** (6) 559-567

Evaluation of <sup>64</sup>Cu-labeled DOTA-D-Phe<sup>1</sup>-Tyr<sup>3</sup>-octreotide (<sup>64</sup>Cu-DOTA-TOC) for imaging somatostatin receptor-expressing tumors

Hoffman TJ, Smith CJ\*// \*Harry S Truman Memorial VA Hosp, Res Serv, 800 Hospital Dr, Columbia, Mo 65201, USA  
*Nucl Med Biol* 2009 **36** (6) 579-585

True radiotracers: <sup>64</sup>Cu targeting vectors based upon bombesin peptide

Lee H, Akers WJ, Cheney PP, Edwards WB, Liang KX, Culver JP, Achilefu S\*// \*Washington Univ Sch Med, Dept Radiol, St Louis, Mo 63110, USA  
*J Biomed Opt* 2009 **14** (4) 040507

Complementary optical and nuclear imaging of caspase-3 activity using combined activatable and radio-labeled multimodality molecular probe

Niu G, Li ZB, Cao QZ, Chen XY\*// \*Stanford Univ Sch Med, Dept Radiol, MIPS, 1201 Welch Rd, PO95, Stanford, Ca 94305, USA  
*Eur J Nucl Med Mol Imaging* 2009 **36** (9) 1510-1519

Monitoring therapeutic response of human ovarian cancer to 17-DMAG by noninvasive PET imaging with <sup>64</sup>Cu-DOTA-trastuzumab



Shokeen M, Anderson CJ// \*Washington Univ, Mallinckrodt Inst Radiol, 510 Sth Kingshighway Blvd, Campus Box 8225, St Louis, Mo 63110, USA  
*Account Chem Res* 2009 **42** (7) 832-841

Molecular imaging of cancer with copper-64 radiopharmaceuticals and positron emission tomography (PET)

## 10 Gallium

Liu ZF, Niu G, Wang F, Chen XY// \*Stanford Univ Sch Med, Dept Radiol, MIPS, 1201 Welch Rd, PO95, Stanford, Ca 94305, USA

*Eur J Nucl Med Mol Imaging* 2009 **36** (9) 1483-1494

<sup>68</sup>Ga-labeled NOTA-RGD-BBN peptide for dual integrin and GRPR-targeted tumor imaging

## 11 Indium

De Jong M, Breeman WAP, Kwekkeboom DJ, Valkema R, Krenning EP// Erasmus MC, Dept Nucl Med, Rotterdam, The Netherlands  
*Account Chem Res* 2009 **42** (7) 873-880

Tumor imaging and therapy using radiolabeled somatostatin analogues (Review)

Ho CL, Chen LC, Lee WC, Chiu SP, Hsu WC, Wu YH, Yeh CH, Stabin MG, Jan ML, Lin WJ, Lee TW, Chang CH// \*Inst Nucl Energy Res, Isotope Applicat Div, 1000 Wenhua Rd, Tao Yuan 325, Taiwan

*Cancer Biother Radiopharm* 2009 **24** (4) 435-443

Receptor-binding, biodistribution, dosimetry, and micro-SPECT/CT imaging of <sup>111</sup>In-[DTPA<sup>1</sup>, Lys<sup>3</sup>, Tyr<sup>4</sup>]-bombesin analog in human prostate tumor-bearing mice

Kwekkeboom DJ, Krenning EP, Scheidhauer K, Lewington V, Lebtahi R, Grossman A, Vitek P, Sundin A, Plockinger U// Erasmus Med Ctr, Dept Nucl Med, 40 Dr Molewaterpl, NL-3015 GD Rotterdam, The Netherlands  
*Neuroendocrinology* 2009 **90** (2) 184-189

ENETS consensus guidelines for the standards of care in neuroendocrine tumors: Somatostatin receptor imaging with <sup>111</sup>In-pentetreotide

Laverman P, Meeuwissen SA, Van Berkel SS, Oyen WJG, Van Delft FL, Rutjes FPJT, Boerman OC// Radboud Univ Nijmegen Med Ctr, Dept Nucl Med, POB 9101, NL-6500 HB Nijmegen, The Netherlands  
*Nucl Med Biol* 2009 **36** (7) 749-757

In-depth evaluation of the cycloaddition-retro-Diels-Alder reaction for *in vivo* targeting with [<sup>111</sup>In]-DTPA-RGD conjugates

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