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Current awareness in labelled compounds and radiopharmaceuticals

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1 Radionuclide production

Bonardi ML, Martano L, Groppi F, Chinol M*// *European Inst Oncol, Div Nucl Med, Via G Ripamonti 435, IT-20141 Milan, Italy
Appl Radiat Isot 2009 **67** (10) 1874-1877

Rapid determination of ⁹⁰Sr impurities in freshly "generator eluted" ⁹⁰Y for radiopharmaceutical preparation

Chattopadhyay S, Das SS// BRIT, Radiopharmaceut Lab, Variable Energy Cyclotron Ctr, Reg Ctr, 1/AF Bidhan Nagar, IN-700064 Kolkata, India
Appl Radiat Isot 2009 **67** (10) 1748-1750

A simple and rapid technique for radiochemical separation of iodine radionuclides from irradiated tellurium using an activated charcoal column

Davarpanah MR, Nosrati SA*, Fazlali M, Boudani MK, Khoshhosn H, Maragheh MG// *Nucl Sci & Technol Res Inst, POB 11365, Tehran, Iran
Appl Radiat Isot 2009 **67** (10) 1796-1801

Influence of drying conditions of zirconium molybdate gel on performance of ^{99m}Tc gel generator

Hussain M, Sudar S, Aslam MN, Shah HA, Ahmad R, Malik AA, Qaim SM*// *Forschungszentrum Julich, Inst Nucl Chem, Postfach 1913, DE-52425 Julich, Germany
Appl Radiat Isot 2009 **67** (10) 1842-1854

A comprehensive evaluation of charged-particle data for production of the therapeutic radionuclide ¹⁰³Pd

McAlister DR, Horwitz EP// PG Res Fdn Inc, 1955 University Lane, Lisle, IL 60532, USA
Appl Radiat Isot 2009 **67** (11) 1985-1991

Automated two column generator systems for medical radionuclides

Peters NJ, Brockman JD, Robertson JD*// *Univ Missouri, Dept Chem, Columbia, Mo 65211, USA
J Radioanal Nucl Chem 2009 **282** (1) 255-259

Using Monte Carlo transport to accurately predict isotope production and activation analysis rates at the University of Missouri research reactor

Spahn I, Steyn GF, Vermeulen C, Kovacs Z, Szelecsenyi F, Coenen HH, Qaim SM// Forschungszentrum Julich, Inst Neurowissenschaften & Biophys, Nucl Chem INB 4, Postfach 1913, DE-52425 Julich, Germany
Radiochim Acta 2009 **97** (10) 535-541

New cross section measurements for production of the positron emitters ⁷⁵Br and ⁷⁶Br via intermediate energy proton induced reactions

Szelecsenyi F, Steyn GF, Kovacs Z, Aardaneh K, Vermeulen C, Van der Walt TN// Hungarian Acad Sci, ATOMKI - Inst Nucl Res, Cyclotron Dept, Bem ter 18/C, HU-4026 Debrecen, Hungary
J Radioanal Nucl Chem 2009 **282** (1) 261-263

Production possibility of ¹⁸⁶Re via the ¹⁹²Os(p,αn)¹⁸⁶Re nuclear reaction

Tarkanyi F, Hermanne A, Takacs S, Rebeles RA, Van den Winkel P, Kiraly B*, Ditroi F, Ignatyuk AV// *Hungarian Acad Sci, ATOMKI - Inst Nucl Res, Bem ter 18/C, HU-4026 Debrecen, Hungary

Appl Radiat Isot 2009 **67** (10) 1751-1757
Cross section measurements of the ¹³¹Xe(p,n) reaction for production of the therapeutic radionuclide ¹³¹Cs

Troyer GL, Schenter RE// Citizens Med Isotopes, POB 802, Richland, Wa 99352, USA

J Radioanal Nucl Chem 2009 **282** (1) 243-246
Medical isotope development and supply opportunities in the 21st century

2 Labelled compound synthesis

Armstrong AF, Lemon JA, Czorny SK, Singh G, Valliant JF*// *McMaster University, Dept Chem, 1280 Main St West, Hamilton, Ontario, Canada L8S 4M1

Nucl Med Biol 2009 **36** (8) 907-917
Evaluation of single amino acid chelate derivatives and regioselective radiolabelling of a cyclic peptide for the urokinase plasminogen activator receptor

Belanger AP, Byrne JF, Paolino JM, DeGrado TR*// *Brigham & Women's Hosp, Dept Radiol, 75 Francis St, Boston, Ma 02115, USA

Nucl Med Biol 2009 **36** (8) 955-959
Use of pressure-hold test for sterilizing filter membrane integrity in radiopharmaceutical manufacturing

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

J Labelled Comp Radiopharm 2009 **52** (13) 543-548
Teflon radiolysis as the major source of carrier in fluorine-18

Boschi S, Lodi F, Cicoria G, Ledesma JR, Knopp R, Rizzello A, Di Pierro D, Trespidi S, Marengo M// Univ Bologna, Azienda Ospedaliero, Policlin S Orsola Malpighi, PET Radiopharm, Via Massarenti 9, IT-40138 Bologna, Italy

Appl Radiat Isot 2009 **67** (10) 1869-1873
Development of a modular system for the synthesis of PET[¹¹C]labelled radiopharmaceuticals

Brown RT, Murrell VL, McMordie A, Sriram M, Pinney KG, Sharma S, Chaplin DJ// Almac Sci, Isotope Chem Grp, Almac House, 20 Seagoe Ind Estate, Craigavon BT63 5QD, Northern Ireland

J Labelled Comp Radiopharm 2009 **52** (14) 567-570
Carbon-14 radiosynthesis of combretastatin A-1 (CA1) and its corresponding phosphate prodrug (CA1P)

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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- Chang CT, Patel P, Gore V, Song WL, Lawson JA, Powell WS, Fitzgerald GA, Rokach J*// *Florida Inst Technol, Claude Pepper Inst, 150 West University Blvd, Melbourne, FL 32901, USA
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A new approach to the synthesis of polyunsaturated deuterated isoprostanes: Total synthesis of d_4 -5-*epi*-8,12-*iso*-iPF_{3 α} -VI and d_4 -8,12-*iso*-iPF_{3 α} -VI
- Claudel E, Arbez-Gindre C, Berl V, Lepoittevin JP*// *Univ Strasbourg 1, Inst Chim, CNRS UMR 7177, Lab Dermatichim, 4 rue Blaise Pascal, FR-67070 Strasbourg, France
Synthesis Stuttgart 2009 (20) 3391-3398
An efficient hemisynthesis of 20- and 21-[¹³C]-labeled cortisone: A model for the study of skin sensitization to corticosteroids
- Craig F, Beattie LA, O'Brien LM, Millar AM// Royal Infirm Edinburgh NHS Trust, Dept Pharm, 51 Little France Crescent, Edinburgh EH16 4SA, Scotland
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Preparation of ^{99m}Tc radiopharmaceuticals: The effects of radiochemical purity of using sodium chloride injection from plastic ampoules that have been exposed to light
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- Donovan AC, Valliant JF*// *McMaster Univ, Dept Chem, 1280 Main St West, Hamilton, Ontario, Canada L8S 4M1
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Synthesis and small-animal positron emission tomography evaluation of [¹¹C]-elacridar as a radiotracer to assess the distribution of P-glycoprotein at the blood-brain barrier
- Gao MZ, Wang M, Miller KD, Hutchins GD, Zheng QH*// *Indiana Univ School Medicine, Dept Radiol, 1345 West 16th St, Indianapolis, In 46202, USA
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Investigation of the coordination interactions of S-(pyridin-2-ylmethyl)-L-cysteine ligands with M(CO)₃⁺ (M = Re, ^{99m}Tc)
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J Nucl Med 2009 **50** (5) 823-826
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Cancer Biother Radiopharm 2009 **24** (5) 629-636

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Thomas DL, Menda Y, Bushnell D// 200 Hawkins Dr, Iowa City, Ia 52246, USA

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Anticancer Res 2009 **29** (10) 4005-4011

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