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Current awareness in labelled compounds and radiopharmaceuticals

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I Radionuclide production

Aksenov NV, Bruchertseifer H, Starodub GY, Vostokin GK, Tereshatov EE, Bozhikov GA, Shishkin SV, Dmitriev SN// Joint Inst Nucl Res, Flerov Lab Nucl React, Joliot Curie 6, RU-141980 Dubna, Russia

J Radioanal Nucl Chem 2009 **279** (1) 341-343

A simple and quick method for the preparation of radionuclide $^{87}\text{Y}/^{87\text{m}}\text{Sr}$ generator using the $^{86}\text{Rb}(\alpha, \text{xn})^{87}\text{Y}$ reaction

Alfassi ZB, Persico E, Groppi F, Bonardi ML// Ben Gurion Univ Negev, Dept Nucl Engn, IL-84106 Beer Sheva, Israel

Appl Radiat Isot 2009 **67** (2) 240-242

On the photon self-absorption correction for thin-target-yields vs. thick-target-yields in radionuclide production

Bokhari TH, Mushtaq A, Khan IU// Govt Coll Univ, Dept Chem, Lahore, Pakistan

J Radioanal Nucl Chem 2009 **279** (1) 281-285

Lead cation exchange and alumina columns for concentration of $^{99\text{m}}\text{Tc}$ -pertechnetate

Deng QM, Cheng ZY, Li ML// Nucl Power Inst China, YUNKE Pharm, POB 436, CN-610041 Chengdu, Peoples Rep China

J Radioanal Nucl Chem 2009 **279** (1) 313-316

Study of valence state of iodine in simulated fuel solution of medical isotope production reactor

Jurkin D, Gildehaus FJ, Wierczinski B// Tech Univ Munich, Lehrstuhl Radiochem, Dept Chem, Walther Meissner Str 3, DE-85748 Garching, Germany

J Label Compd Radiopharm 2009 **52** (2) 33-40

Dissociation kinetics determination of yttrium(III)-polyaminocarboxylates using free-ion selective radiotracer extraction (FISRE)

Kandil SA, Scholten B, Hassan KF, Hanafi HA, Qaim SM// Forschungszentrum Julich, Inst Nucl Chem, Postfach 1913, DE-52425 Julich, Germany

J Radioanal Nucl Chem 2009 **279** (3) 823-832

A comparative study on the separation of radioyttrium from Sr- and Rb-targets via ion-exchange and solvent extraction techniques, with special reference to the production of no-carrier-added ^{86}Y , ^{87}Y and ^{88}Y using a cyclotron

Ram R, Chakravarty R, Pamale Y, Dash A*, Venkatesh M// *Bhabha Atomic Research Centre, Radiopharmaceutical Division, IN-400085 Mumbai, Maharashtra, India

Chromatographia 2009 **69** (5-6) 497-501

An alumina based ^{99}Mo - $^{99\text{m}}\text{Tc}$ generator to produce $^{99\text{m}}\text{Tc}$ in organic medium suitable for industrial radiotracer applications

Sarkar SK, Venkatesh M*, Ramamoorthy N// *Bhabha Atomic Res Ctr, Radiopharmaceut Div, Radiochem & Isotope Group, IN-400085 Mumbai, India

Appl Radiat Isot 2009 **67** (2) 234-239

Evaluation of two methods for concentrating perhenate (^{188}Re) eluates obtained from ^{188}W - ^{188}Re generator

Tarkanyi F, Takacs S, Hermanne A, Ditroi F, Kiraly B*, Baba M, Ohtsuki T, Kovalev SF, Ignatyuk AV// *Hungarian Acad Sci, ATOMKI Inst Nucl Res, Bem ter 18/c, HU-4026 Debrecen, Hungary

Appl Radiat Isot 2009 **67** (2) 243-247

Investigation of production of the therapeutic radioisotope ^{165}Er by proton induced reactions on erbium in comparison with other production routes

2 Labelled compound synthesis

Ahern DG, Morrison JC, Filer CN// PerkinElmer Life & Analyt Sci Inc, 549 Albany St, Boston, Ma 02118, USA

J Radioanal Nucl Chem 2009 **279** (1) 3-6

Tritiation of melatonin by several methods

Ahmed N, Garcia G, Ali H, Van Lier JE// *Univ Sherbrooke, Fac Med & Health Sci, Dept Med Nucl & Radiobiol, Sherbrooke, Quebec, Canada J1H 5N4

Steroids 2009 **74** (1) 42-50

^{18}F -labelling of A-ring substituted 16α -fluoro-estradiols as potential radiopharmaceuticals for PET imaging

Amir N, Roohi S, Pervez S, Mushtaq A, Jehangir M, Miyashita Y, Okamoto K// Pakistan Inst Nucl Sci & Technol, Isotope Prod Div, PO Nilore, Islamabad, Pakistan

J Radioanal Nucl Chem 2009 **279** (1) 25-30

S-bridged complex of $^{99\text{m}}\text{Tc}$ with $\text{fac}(\text{S})\text{-}[\text{Rh}(\text{aet})_3]$: Quality control, characterization and biodistribution studies in rats

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

Appl Radiat Isot 2009 **67** (2) 296-300

Efficient and reproducible synthesis of $[1\text{-}^{11}\text{C}]\text{acetyl chloride}$ using the loop method

Bartholoma M, Valliant J*, Maresca KP, Babich J, Zubieta J// *McMaster Univ, Dept Chem, Hamilton, Ontario, Canada L8S 4M1

Chem Commun 2009 (5) 493-512

Single amino acid chelates (SAAC): A strategy for the design of technetium and rhenium radiopharmaceuticals (Review)

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.

- Bejot R, Fowler T, Carroll L, Boldon S, Moore JE, Declerck J, Gouverneur V*// *Chem Res Lab, Mansfield Rd, Oxford OX1 3TA, England
Angew Chem Int Ed 2009 **48** (3) 586-589
Fluorous synthesis of ^{18}F radiotracers with the ^{18}F fluoride ion: Nucleophilic fluorination as the detagging process
- Boiadjev SE, Lightner DA*// *Univ Nevada, Dept Chem, Reno, Nv 89557, USA
Monatsh Chem 2009 **140** (1) 111-119
 ^{13}C -labeled bilirubin: Synthesis of $3^1(3^2), 17^1(17^2)$ -di- ^{13}C -mesobilirubin-XIII α
- Boswell CA, Regino CAS, Baidoo KE, Wong KJ, Milenic DE, Kelley JA, Lai CC, Brechbiel MW*// *NIH/NCI, Radiat Oncol Branch, Radioimmune & Inorganic Chem Sect, Bldg 10 Ctr Dr, Bethesda, Md 20892, USA
Bioorg Med Chem 2009 **17** (2) 548-552
A novel side-bridged hybrid phosphonate/acetate pendant cyclam: Synthesis, characterization, and ^{64}Cu small animal PET imaging
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- Braband H, Tooyama Y, Fox T, Alberto R*// *Univ Zurich, Inst Inorganic Chem, Winterthurerstr 190, CH-8057 Zurich, Switzerland
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Org Biomol Chem 2009 **7** (3) 564-575
Synthesis of the positron-emitting radiotracer ^{18}F -2-fluoro-2-deoxy-D-glucose from resin-bound perfluoroalkylsulfonates
- Chu TW, Li ZJ, Wang XY*// Peking Univ, Coll Chem & Mol Engn, Dept Appl Chem, BNLMS, CN-100871 Beijing, Peoples Rep China
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Synthesis of $^{99\text{m}}\text{Tc}$ -DOTMP and its preclinical evaluation as a multidentate imaging agent for skeletal metastases
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Synthesis and characterization of nonsteroidal-linked $\text{M}(\text{CO})_3^+$ ($\text{M} = ^{99\text{m}}\text{Tc}$, Re) compounds based on the androgen receptor targeting molecule flutamide
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Synthesis and biodistribution of lipophilic and monocationic gallium radiopharmaceuticals derived from *N,N'*-bis(3-aminopropyl)-*N,N'*-dimethylethylenediamine: Potential agents for PET myocardial imaging with ^{68}Ga
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The discovery of potent antitumor agent ^{11}C -deoxy-psymberin/irciniastatin A: Total synthesis and biology of advanced psymberin analogs
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Preparation and biological evaluation of ^{67}Ga -labeled-superparamagnetic nanoparticles in normal rats
- Kiesewetter DO, Lang L, Ma Y, Bhattacharjee AK, Gao ZG, Joshi BV, Melman A, De Castro S, Jacobson KA// NIH/NIBIB, PET Radiochem Grp, Clin Ctr, Bethesda, Md 20892, USA
Nucl Med Biol 2009 **36** (1) 3-10
Synthesis and characterization of ^{76}Br -labeled high-affinity A_3 adenosine receptor ligands for positron emission tomography
- Kleinmaier R, Gschwind RM*// *Univ Regensburg, Inst Organ Chem, Universitätsstr 31, DE-93040 Regensburg, Germany
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- Liu ZF, Yuan QP*, Wang WC*// *Beijing Inst Chem Technol, Coll Life Sci & Technol, POB 75, CN-100029 Beijing, Peoples Rep China
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Biosynthesis of ^{15}N L-tryptophan from ^{15}N labeled anthranilic acid by fermentation of *Candida utilis* mutant
- Malgesini B, Felder E, Mongelli N, Papeo G// Nerviano Med Sci, BU-Oncol, Dept Chem, Viale Pasteur 10, IT-20014 Nerviano, Mi, Italy
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- Mamat C, Ramenda T, Wuest FR*// *Univ Alberta, Dept Oncol Imaging, Cross Cancer Inst, Edmonton, Alberta, Canada T6G 1Z2
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Recent applications of click chemistry for the synthesis of radiotracers for molecular imaging (Review)
- Miller PW// Imperial College London, Dept Chem, London SW7 2AZ, England
J Chem Technol Biotechnol 2009 **84** (3) 309-315
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J Label Compound Radiopharm 2009 **52** (1) 6-12
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- Oliveira BL, Correia JDG*, Raposinho PD, Santos I, Ferreira A, Cordeiro C, Freire AP// *ITN, Dept Quim, Estrada Nacl 10, PT-2686-953 Sacavem, Portugal
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Synthesis of ^2H - and ^{13}C -labeled pyronaridine tetraphosphate—an anti-malarial drug
- Qiao JP, Sun XT, Zhu L// Beijing Normal Univ, Coll Chem, MoE Key Lab Radiopharmaceut, CN-100875 Beijing, Peoples Rep China
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- Russo V, Allen J, Ball ZT*// *Rice Univ, Dept Chem, POB 1892, Houston, Tx 77005, USA
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- Zhang JB, Luo G, Wang XB// Beijing Normal Univ, Coll Chem, MoE Key Lab Radiopharmaceut, CN-100875 Beijing, Peoples Rep China
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Synthesis and biodistribution of a novel ^{99m}Tc nitrido dithiocarbamate complex containing ether group as a potential myocardial and brain imaging agent

Applications:

3 Biomedical - General

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Menegaz D, Rosso A, Royer C, Leite LD, Santos ARS, Silva FRMB*// *Univ Fed Santa Catarina, Dept Bioquim, Ctr Ciencias Biol, Campus Univ, Bairro Trindade, Cx Postal 5069, BR-88040-970 Florianopolis, SC, Brazil
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Q J Nucl Med Mol Imaging 2008 **52** (4) 388-402

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Q J Nucl Med Mol Imaging 2008 **52** (4) 430-440

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Q J Nucl Med Mol Imaging 2008 **52** (4) 378-387

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J Nucl Med 2009 **50** (1) 18-23

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Nucl Med Commun 2009 **30** (3) 194-201

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Q J Nucl Med Mol Imaging 2008 **52** (4) 403-418

Radiolabeled metaiodobenzylguanidine for imaging and therapy of neuroblastoma (Review)

Takamura T, Takahashi N, Ishigami T, Sugano T, Ishikawa T, Uchino K, Kimura K, Inoue T, Umemura S// Yokohama City Univ, Grad Sch Med, Dept Cardioresnal Med, 3-9 Fukuura, Kanazawa ku, Yokohama, Kanagawa 236 000, Japan

Nucl Med Commun 2009 **30** (1) 54-61

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J Synchrotron Radiat 2009 **16** (1) 57-62

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Vaidyanathan G// DUMC, Department Radiol, Box 3808, Durham, NC 27710, USA

Q J Nucl Med Mol Imaging 2008 **52** (4) 351-368

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J Nucl Med 2009 **50** (2) 284-289

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J Nucl Med 2009 **50** (2) 250-258

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Mol Imaging Biol 2009 **11** (2) 79-87

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Jalilian AR, Garousi J, Akhlaghi M, Rowshanfarzad P// AMIRS, Nucl Med Res Grp, POB 31485-498, Karaj, Iran

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J Nucl Med 2009 **50** (3) 435-443

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J Nucl Med 2009 **50** (1) 123-131

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Ann Nucl Med 2009 **23** (2) 197-203

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Mol Imaging Biol 2009 **11** (1) 39-45

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Eur J Nucl Med Mol Imaging 2009 **36** (4) 683-691

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Technol Cancer Res Treat 2009 **8** (1) 51-60

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

Cancer Biother Radiopharm 2009 **24** (1) 7-14

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De Araujo EB, Caldeira Filho JS, Nagamati LT, Muramoto E, Colturato MT, Couto RM, Pujatti PB, Mengatti J, Silva CPG// Nucl & Energet Research Institute IPEN, Av Lineu Prestes 2242, Cidade Univ, BR-05508-900 Sao Paulo, Brazil

Appl Radiat Isot 2009 **67** (2) 227-233

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Djokic D, Jankovic D, Nikolic N// Inst Nucl Sci Vinca, Lab Radioisotopes, M Petrovica Alasa 12-14, RS-11000 Belgrade, Serbia

Cancer Biother Radiopharm 2009 **24** (1) 129-136

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