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# Current awareness in labelled compounds and radiopharmaceuticals

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### 1 Radionuclide production

Chakravarty R, Shukla R, Gandhi S, Ram R, Dash A, Venkatesh M, Tyagi AK// \*Bhabha Atomic Research Ctr, 2 Chem Division, IN-400085 Mumbai, India

*J Nanosci Nanotechnol* 2008 **8** (9) 4447-4452

Polymer embedded nanocrystalline titania sorbent for <sup>99</sup>Mo-<sup>99m</sup>Tc generator

### 2 Labelled compound synthesis

Andreu R, Ronda JC// \*Universitat Rovira i Virgili, Facultat Quimica, Department Quimica Analitica & Quimica Organica, ES-43007 Tarragona, Spain

*Syn Commun* 2008 **38** (14) 2316-2329

Synthesis of 3,4-dihydro-2H-1,3-benzoxazines by condensation of 2-hydroxy-aldehydes and primary amines: Application to the synthesis of hydroxy-substituted and deuterium-labeled compounds

Bartlett DW, Colcher D, Raubitschek AA// \*City of Hope National Medical Ctr, Beckman Res Inst, Div Cancer Immunotherapy & Tumor Immunol, Duarte, Ca 91010, USA

*Bioconjug Chem* 2008 **19** (9) 1927-1937

Rapid and efficient production of radiolabeled antibody conjugates using vacuum diafiltration guided by mathematical modeling

Bolcskei H, Mak M, Dravecz F, Domany G// Gedeon Richter PLC, POB 27, HU-1475 Budapest 10, Hungary

*ARKIVOC* 2008 (iii) 182-193

Synthesis of deuterated dextromethorphan derivatives

Breitung ST, Lopez JJ, Durner G, Glaubitz C, Gobel MW\*, Suhartono M// \*Univ Frankfurt, Inst Organ Chem & Chem Biol, Max von Laue Str 7, DE-60438 Frankfurt, Germany

*Beilstein J Org Chem* 2008 **4** 35

A practical synthesis of the <sup>13</sup>C/<sup>15</sup>N-labelled tripeptide *N*-formyl-Met-Leu-Phe, useful as a reference in solid-state NMR spectroscopy

Busch R, Siah IM, Gee TA, Hellerstein MK// Addenbrookes Hospital, Department Medicine, Box 157, Level 5, Hills Rd, Cambridge CB2 2QQ, England

*J Immunol Methods* 2008 **337** (1) 24-34

Heavy water labeling of DNA for measurement of cell proliferation and recruitment during primary murine lymph node responses against model antigens

Chacko AM, Qu WC, Kung HF// \*Univ Pennsylvania, Dept Radiol, 3700 Market St, Philadelphia, Pa 19104, USA

*J Med Chem* 2008 **51** (18) 5690-5701

Synthesis and *in vitro* evaluation of 5-[<sup>18</sup>F]fluoroalkyl pyrimidine nucleosides for molecular imaging of herpes simplex virus type 1 thymidine kinase reporter gene expression

Chakraborty S, Das T, Sarma HD, Venkatesh M, Banerjee S// \*Bhabha Atomic Research Centre, Radiopharmaceuticals Div, IN-400085 Mumbai, India

*Nucl Med Biol* 2008 **35** (5) 589-597

Preparation and preliminary studies on <sup>177</sup>Lu-labeled hydroxyapatite particles for possible use in the therapy of liver cancer

Ding YS, Greshock TJ, Miller KA, Sherman DH\*, Williams RM// \*Univ Michigan, Institute Life Sci, 210 Washtenaw Avenue, Ann Arbor, Mi 48109, USA

*Org Lett* 2008 **10** (21) 4863-4866

Premalbranchamide: Synthesis, isotopic labeling, biosynthetic incorporation, and detection in cultures of *Malbranchea aurantiaca*

Donohue SR, Pike VW, Finnema SJ, Truong P, Andersson J, Gulyas B, Hallidin C// NIH/NIMH, Mol Imaging Branch, Bldg 10, Rm B3 C342, Bethesda, Md 20892, USA

*J Med Chem* 2008 **51** (18) 5608-5616

Discovery and labeling of high-affinity 3,4-diarylpyrazolines as candidate radioligands for *in vivo* imaging of cannabinoid subtype-1 (CB<sub>1</sub>) receptors

Donohue SR, Krushinski JH, Pike VW, Chernet E, Phebus L, Chesterfield AK, Felder CC, Hallidin C, Schaus JM// NIH/NIMH, Mol Imaging Branch, Bldg 10, Rm B3 C342, Bethesda, Md 20892, USA

*J Med Chem* 2008 **51** (18) 5833-5842

Synthesis, *ex vivo* evaluation, and radiolabeling of potent 1,5-diphenylpyrrolidin-2-one cannabinoid subtype-1 receptor ligands as candidates for *in vivo* imaging

Donovan AC, Valliant JF// \*McMaster Univ, Dept Chem, 1280 Main St West, Hamilton, Ontario, Canada L8S 4M1

*Nucl Med Biol* 2008 **35** (7) 741-746

A convenient solution-phase method for the preparation of *meta*-iodobenzylguanidine in high effective specific activity

Elmore CS, Powell ME, Heys JR// AstraZeneca Pharmaceut LP, R&D Discovery, LW-324, 1800 Concord Pike, POB 15437, Wilmington, De 19850, USA

*J Label Compd Radiopharm* 2008 **51** (9) 343-346

Syntheses of AZ12320927 labeled with <sup>3</sup>H, <sup>14</sup>C, and <sup>2</sup>H

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.

- Evens N, Bosier B, Lavey BJ, Kozlowski JA, Vermaelen P, Baudemprez L, Busson R, Lambert DM, Van Laere K, Verbruggen AM, Bormans GM\*// \*Nederwijjs & Navorsing 2, Herestr 49, Bus 821, BE-3000 Louvain, Belgium  
*Nucl Med Biol* 2008 **35** (7) 793-800  
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- Fontana E, Pignatti A, Giribone D, Di Salle E// Nerviano Med Sci, Accelera Unit, Viale Pasteur 10, IT-20014 Nerviano, MI, Italy  
*Steroids* 2008 **73** (7) 760-764  
 Synthesis of exemestane labelled with <sup>13</sup>C
- Hanson JR// Univ Sussex, Dept Chem, Brighton BN1 9QJ, England  
*J Chem Res Synop* 2008 (5) 241-247  
 Fifty years of the synthesis of labelled mevalonic acid (Review)
- Henke KE, Beran M, Srank J, Melichar F// Acad Sci Czech Republic, Nucl Phys Inst, vvi NPI, CZ-25068 Rez, Czech Republic  
*J Radioanal Nucl Chem* 2008 **278** (1) 25-29  
 Quality control of no-carrier-added <sup>90</sup>YCl<sub>3</sub> by estimating the labeling efficiency using its reaction with DOTATOC
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 Synthesis, <sup>18</sup>F-labeling, and *in vitro* and *in vivo* studies of bombesin peptides modified with silicon-based building blocks
- Hooker JM, Schoenberger M, Schieferstein H, Fowler JS// Brookhaven Natl Lab, Dept Med, Upton, NY 11973, USA  
*Angew Chem Int Ed* 2008 **47** (32) 5989-5992  
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- Horiguchi T, Rithner CD, Croteau R, Williams RM\*// \*Colorado State Univ, Dept Chem, Fort Collins, Co 80523, USA  
*J Label Compound Radiopharm* 2008 **51** (9) 325-328  
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*Bull Korean Chem Soc* 2008 **29** (10) 2023  
 Synthesis and *in vitro/vivo* evaluation of iodine-123/124 labelled hypericin derivatives
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*J Med Chem* 2008 **51** (19) 6034-6043  
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*Adv Synth Catal* 2008 **350** (14-15) 2215-2218  
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*Nucleic Acids Res* 2008 **36** (14) e89  
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- Pawelke RH, Felderhoff M, Weidenthaler C, Schuth F\*// \*Max Planck Inst Kohlenforschung, Kaiser Wilhelm Pl 1, DE-45470 Mulheim, Germany  
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 Convenient synthesis of deuterated aluminium hydrides
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*J Drug Target* 2008 **16** (6) 509-515  
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## Applications:

### 3 Biomedical - General

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Guideline to regulations for radiopharmaceuticals in early phase clinical trials in the EU

Zhao Y, Kuge YJ\*, Zhao SJ, Strauss HW, Blankenberg FG, Tamaki N// \*Hokkaido Univ, Grad Sch Med, Dept Tracer Kinet & Bioanal, North 15, West 7, Kita ku, Sapporo, Hokkaido 060 863, Japan  
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Miller PW, Long NJ, Vilar R, Gee AD// Imperial Coll London, Dept Chem, London SW7 2AZ, England  
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