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# Current awareness in labelled compounds and radiopharmaceuticals

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## I Radionuclide production

Allan KF, Ali MMS, Hanafi HA, El-Azony KM// Atomic Energy Authority, Hot Labs Ctr, EG-13759 Cairo, Egypt

*J Radioanal Nucl Chem* 2010 **284** (2) 297-301

Separation of  $^{113}\text{mIn}$  from  $^{113}\text{Sn}$  based on activated carbon used as column matrix

Asif M, Mushtaq A\*// \*Pakistan Inst Nucl Sci & Technol, Isotope Prod Div, PO Nilore, Islamabad, Pakistan

*J Radioanal Nucl Chem* 2010 **284** (2) 439-442

Evaluation of highly loaded low specific activity  $^{99\text{m}}\text{Mo}$  on alumina column as  $^{99\text{m}}\text{Tc}$  generator

Bokhari TH, Mushtaq A\*, Khan IU// \*Pakistan Inst Nucl Sci & Technol, Isotope Prod Div, PO Nilore, Islamabad, Pakistan

*J Radioanal Nucl Chem* 2010 **284** (2) 265-271

Production of low and high specific activity  $^{64}\text{Cu}$  in a reactor

Chattopadhyay S, Das SS, Barua L// BRIT, Reg Ctr, Radiopharmaceut Lab, VECC, 1/AF, Bidhan Nagar, IN-700064 Kolkata, India

*Appl Radiat Isot* 2010 **68** (1) 1-4

A simple and rapid technique for recovery of  $^{99\text{m}}\text{Tc}$  from low specific activity (n, $\gamma$ ) $^{99}\text{Mo}$  based on solvent extraction and column chromatography

Filosofov DV, Loktionova NS, Rosch F\*// \*Johannes Gutenberg Univ Mainz, Inst Nucl Chem, DE-55128 Mainz, Germany

*Radiochim Acta* 2010 **98** (3) 149-156

A  $^{44}\text{Ti}/^{44}\text{Sc}$  radionuclide generator for potential application of  $^{44}\text{Sc}$ -based PET-radiopharmaceuticals

Gebhardt P, Opfermann T, Saluz HP\*// \*Hans Knoell Inst, Leibniz Inst Nat Prod Res & Infect Biol, Beutenbergstr 11a, DE-07745 Jena, Germany

*Appl Radiat Isot* 2010 **68** (6) 1057-1059

Computer controlled  $^{68}\text{Ga}$  milking and concentration system

Hermanne A, Tarkanyi F, Takacs S, Van den Winkel P, Rebeles RA, Ignatyuk A, Kovalev SF// Vrije Univ Brussels, Brussels, Belgium

*Appl Radiat Isot* 2010 **68** (1) 14-17

Production of the therapeutic radioisotope  $^{114}\text{mIn}$  through the  $^{116}\text{Cd}(p,3n)^{114}\text{mIn}$  reaction

Kosuda S, Tomita H, Hayashi K, Kita T, Koike K, Arai T// Natl Defense Med Coll, Department Radiol, 3-2 Namiki Tokorozawa, Saitama 359 8513, Japan

*Ann Nucl Med* 2010 **24** (4) 319-323

Questionnaire survey of hospitals in Saitama Prefecture regarding the shortage of  $^{99\text{m}}\text{Tc}$ -labeled radiopharmaceuticals and  $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$  generators

Matarrese M, Bedeschi P, Scardaoni R, Sudati F, Savi A, Pepe A, Masiello V, Todde S, Gianolli L, Messa C, Fazio F// Univ Bicocca, CNR, San Raffaele Sci Inst, Inst Mol Bioimaging & Physiol, Olgettina 60, IT-20132 Milan, Italy

*Appl Radiat Isot* 2010 **68** (1) 5-13

Automated production of copper radioisotopes and preparation of high specific activity [ $^{64}\text{Cu}$ ]Cu-ATSM for PET studies

Mirzaii M, Seyyedi S, Sadeghi M, Gholamzadeh Z// Agric Med & Ind Res Sch, Nucl Sci & Technol Res Inst, POB 31485-498, Tehran, Iran

*J Radioanal Nucl Chem* 2010 **284** (2) 333-339

Cadmium electrodeposition on copper substrate for cyclotron production of  $^{111}\text{In}$  radionuclide

Sadeghi M, Mokhtari L// Agric Med & Ind Res Sch, Nucl Sci & Technol Res Inst, POB 31485-498, Karaj, Iran

*J Radioanal Nucl Chem* 2010 **284** (2) 471-473

Rapid separation of  $^{67}\text{Ga}$ ,  $^{68}\text{Ga}$  from  $^{68}\text{Zn}$  target using precipitation technique

Soares DCF, Menezes MADC, Dos Santos RG, Ramaldes GA// UFMG, Ave Pres Antonio Carlos 6627, Pampulha, BR-31270-901 Belo Horizonte, Brazil

*J Radioanal Nucl Chem* 2010 **284** (2) 315-320

$^{159}\text{Gd}$ : Preparation and preliminary evaluation as a potential antitumoral radionuclide

Targholizadeh H, Raisali G\*, Jalilian AR, Rostampour N, Ensaf M, Dehghan MK// \*Atomic Energy Organization Iran, Nucl Sci & Technol Res Inst, Radiat Applicat Res Sch, POB 11365-3486, Tehran, Iran

*Nukleonika* 2010 **55** (1) 113-118

Cyclotron production of technetium radionuclides using a natural metallic molybdenum thick target and consequent preparation of [Tc]-BRIDA as a radio-labelled kit sample

Tarkanyi F, Hermanne A, Takacs S, Ditroi F, Kiraly B\*, Yamazaki H, Baba M, Mohammadi A, Ignatyuk AV// \*Hungarian Acad Sci, ATOMKI, Inst Nucl Res, Bem ter 18/C, HU-4026 Debrecen, Hungary

*Appl Radiat Isot* 2010 **68** (1) 47-58

New measurements and evaluation of excitation functions for (p,xn), (p,pxn) and (p,2pxn) reactions on  $^{133}\text{Cs}$  up to 70 MeV proton energy

## 2 Labelled compound synthesis

Asti M, Farioli D, Iori M, Guidotti C, Versari A, Salvo D// S Maria Nuova Hosp, Dept Nucl Med, Via Risorgimento 80, IT-42100 Reggio Emilia, Italy

*Nucl Med Biol* 2010 **37** (3) 309-315

Efficient automated one-step synthesis of 2[ $^{18}\text{F}$ ]fluoroethylcholine for clinical imaging: Optimized reaction conditions and improved quality controls of different synthetic approaches

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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*Radiochim Acta* 2010 **98** (3) 161-166  
 A new technique for tritium labeling of humic substances
- Biegalski SR, Saller T, Helfand J, Biegalski KMF// Univ Texas Austin, Nucl Engrn Teaching Lab, 1 University Stn, Austin, Tx 78712, USA  
*J Radioanal Nucl Chem* 2010 **284** (3) 663-668  
 Sensitivity study on modeling radioxenon signals from radiopharmaceutical production facilities
- Binkley SL, Barone NV, Underwood AC, Milsted A, Franklin BR, Herrick RS, Ziegler CJ// \*Univ Akron, Dept Chem, Akron, Oh 44325, USA  
*J Inorg Biochem* 2010 **104** (6) 632-638  
 The synthesis and toxicity of tripodal tricarbonyl rhenium complexes as radiopharmaceutical models
- Chaumet-Riffaud P, Martinez-Duncker I, Marty AL, Richard C, Prigent A, Moati F, Sarda-Mantel L, Scherman D, Bessodes M, Mignet N// Univ Paris 11, CHU Bicetre, FR-94275 Le Kremlin Bicetre, France  
*Bioconjug Chem* 2010 **21** (4) 589-596  
 Synthesis and application of lactosylated, <sup>99m</sup>Tc chelating albumin for measurement of liver function
- Chun JH, Lu SY, Lee YS, Pike VW// \*NIH/NIMH, Mol Imaging Branch, PET Radiopharmaceut Sci Sect, Rm B3 C346A, Bldg 10, 10 Center Dr, Bethesda, Md 20892, USA  
*J Org Chem* 2010 **75** (10) 3332-3338  
 Fast and high-yield microreactor syntheses of *ortho*-substituted [<sup>18</sup>F]fluoroarenes from reactions of [<sup>18</sup>F]fluoride ion with diaryliodonium salts
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 Preparation and the kinetic stability of hyaluronan radiolabeled with <sup>111</sup>In, <sup>125</sup>I and <sup>14</sup>C
- De Barros ALB, Cardoso VN, Mota LD, Leite EA, De Oliveira MC, Alves RJ// \*Univ Fed Minas Gerais, Fac Farm, Av Antonio Carlos 6627, BR-31279-901 Belo Horizonte, MG, Brazil  
*Bioorg Med Chem Lett* 2010 **20** (8) 2478-2480  
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*Appl Radiat Isot* 2010 **68** (1) 120-121  
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- El-Azony KM, El-Mohty AA, Deeb A, Khater SI// Atomic Energy Authority, Radioact Isotope & Generators Dept, Hot Labs Ctr, POB 13759, Cairo, Egypt  
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 Cationic technetium and rhenium complexes with pendant carbohydrates
- Fuks L, Gniazdowska E\*, Kozminski P, Lyczko M, Mieczkowski J, Narbutt J// \*Inst Nucl Chem & Technol, Dorodna 16, PL-03195 Warsaw, Poland  
*Appl Radiat Isot* 2010 **68** (1) 90-95  
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 Synthesis of carbon-11-labeled 4-aryl-4H-chromens as new PET agents for imaging of apoptosis in cancer
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- Gao MZ, Wang M, Hutchins GD, Zheng QH// \*Indiana Univ Sch Med, Dept Radiol & Imaging Sci, 1345 West 16th St, Indianapolis, In 46202, USA  
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 Synthesis and preliminary evaluation of a novel <sup>125</sup>I-labeled T140 analog for quantitation of CXCR4 expression
- Heinrich TK, Gottumukkala V, Snay E, Dunning P, Fahey FH, Treves ST, Packard AB// \*Children's Hosp Boston, Dept Radiol, Div Nucl Med, 300 Longwood Ave, Boston, Ma 02115, USA  
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 Synthesis of fluorine-18 labeled rhodamine B: A potential PET myocardial perfusion imaging agent
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 Synthesis and analysis of 2-[<sup>211</sup>At]-L-phenylalanine and 4-[<sup>211</sup>At]-L-phenylalanine and their uptake in human glioma cell cultures *in-vitro*
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 Synthesis of carbon-11-labeled tariquidar derivatives as new PET agents for imaging of breast cancer resistance protein (ABCG2)
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### Applications: 3 Biomedical - General

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### 4 Imaging - General

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Coordinating radiometals of copper, gallium, indium, yttrium and zirconium for PET and SPECT imaging of disease

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<sup>18</sup>F-FDG PET imaging of myocardial viability in an experienced center with access to <sup>18</sup>F-FDG and integration with clinical management teams: The Ottawa-FIVE substudy of the PARR 2 trial

Agarwal M, Brahmanday G, Bajaj SK, Ravikrishnan KP, Wong CYO// Oakland University, William Beaumont School Medicine Hospital, Positron Diagn & Cyclotron Center, 3601 West 13 Mile Rd, Royal Oak, MI 48073, USA

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*Mol Imaging Biol* 2010 **12** (2) 204-209

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Influence of bowel preparation before <sup>18</sup>F-FDG PET/CT on physiologic <sup>18</sup>F-FDG activity in the intestine

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Tantawy MN, Peterson TE// Vanderbilt Univ Med Ctr, Inst Imaging Sci, Dept Radiol & Radiol Sci, 1161 21st Ave Sth, AA 1105 MCN, Nashville, Tn 37232, USA

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Van Riet J, Hill EE, Gheysens O, Dymarkowski S, Herregods MC, Herijgers P, Peetermans WE, Mortelmans L// \*Univ Hosp KU Leuven, Dept Nucl Med, Herestr 49, BE-3000 Leuven, Belgium

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Van Ufford HQ, Hoekstra O, De Haas M, Fijnheer R, Wittebol S, Tiekens B, Kramer M, De Klerk J// Univ Med Ctr Utrecht, Utrecht, The Netherlands

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Vandehey NT, Moirano JM, Converse AK, Holden JE, Mukherjee J, Murali D, Nickles RJ, Davidson RJ, Schneider ML, Christian BT// Univ Wisconsin Madison, Dept Med Phys, Lawrence Berkeley Natl Lab, 1 Cyclotron Rd, MS55R0121, Berkeley, Ca 94720, USA

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High-affinity dopamine D<sub>2</sub>/D<sub>3</sub> PET radioligands <sup>18</sup>F-fallypride and <sup>11</sup>C-FLB457: A comparison of kinetics in extrastriatal regions using a multiple-injection protocol

Vicente AMG, Castrejon AMS, Rubio MPT, Martin AAL, Munoz AMP, Woll JPP, Garcia VMP// Univ Gen Hosp, Dept Nucl Med, Obispo Rafael Torija s/n, ES-13005 Ciudad Real, Spain

*Ann Nucl Med* 2010 **24** (3) 207-214

<sup>18</sup>F-FDG PET-CT respiratory gating in characterization of pulmonary lesions: Approximation towards clinical indications

Wang P, Meng ZW\*, Tan J, Jia Q, Zhang FH// \*Tianjin Med Univ, Gen Hosp, Dept Nucl Med, Anshan Rd 154, CN-300052 Tianjin, PR China

*Nucl Med Commun* 2010 **31** (5) 398-404

An improved method for measurement of target-to-background ratio in assessing mediastinal lesions on <sup>18</sup>F-FDG coincidence SPECT/CT imaging

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*Ann Nucl Med* 2010 **24** (3) 225-229

<sup>18</sup>F-Fluorodeoxyglucose positron emission tomography for diagnosis and monitoring of idiopathic retroperitoneal fibrosis associated with mediastinal fibrosis

Wong CYO, Gates VL, Tang BF, Campbell J, Qing F, Lewandowski RJ, Thie J, Ho CL, Savin M, Salem R// Oakland Univ, William Beaumont Hosp, Dept Nucl Med, Positron Diagn Ctr & Med Cyclotron, Royal Oak, Mi 48073, USA

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Fluoro-2-deoxy-D-glucose positron emission tomography/computed tomography predicts extrahepatic metastatic potential of colorectal metastasis: A practical guide for yttrium-90 microsphere liver-directed therapy

Xie P, Yue JB, Zhao HX, Sun XD, Kong L, Fu Z, Yu JM// \*Shandong Tumor Hosp & Inst, Dept Radiat Oncol, Jiyan Rd 440, CN-250177 Jinan, Shandong, Peoples Rep China

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Prognostic value of <sup>18</sup>F-FDG PET-CT metabolic index for nasopharyngeal carcinoma

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*J Nucl Med* 2010 **51** (4) 528-534

Measuring tumor cell proliferation with <sup>18</sup>F-FLT PET during radiotherapy of esophageal squamous cell carcinoma: A pilot clinical study

Yun M, Cho A, Lee JH, Choi YJ, Lee JD, Kim CK// \*Harvard Univ Sch Med, Brigham & Womens Hosp, Dept Radiol, Div Nucl Med & Mol Imaging, Boston, Ma 02115, USA

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Zald DH, Woodward ND, Cowan RL, Riccardi P, Ansari MS, Baldwin RM, Cowan RL, Smith CE, Hakyemez H, Li R, Kessler RM// Vanderbilt Univ, Dept Psychol, 111 21st Ave Sth, Nashville, Tn 37212, USA

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The interrelationship of dopamine D<sub>2</sub>-like receptor availability in striatal and extrastriatal brain regions in healthy humans: A principal component analysis of [<sup>18</sup>F]fallypride binding

Zanotti-Fregonara P, Jan S, Taieb D, Cammilleri S, Trebossen R, Hindle E, Mundler O// St Antoine Hosp, Dept Nucl Med, 184 rue FBG St Antoine, FR-75571 Paris 12, France

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Absorbed <sup>18</sup>F-FDG dose to the fetus during early pregnancy

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Giovacchini G, Picchio M\*, Scattoni V, Parra RG, Briganti A, Gianolli L, Montorsi F, Messa C// \*Ist Sci San Raffaele, Dept Nucl Med, Via Olgettina 60, IT-20132 Milan, Italy

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- De Vries EFJ, Roca M, Jamar F, Israel O, Signore A\*// \*Univ Roma La Sapienza, Ospedale S Andrea, Via Grottarossa 1035, IT-00189 Rome, Italy  
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Dimastromatteo J, Riou LM\*, Ahmadi M, Pons G, Pellegrini E, Broisat A, Sancey L, Gavrillina T, Boturyn D, Dumy P, Fagret D, Ghezzi C// \*Fac Med Grenoble, INSERM U877, FR-38700 Grenoble, France

*J Nucl Cardiol* 2010 **17** (3) 435-443

*In vivo* molecular imaging of myocardial angiogenesis using the  $\alpha_v\beta_3$  integrin-targeted tracer  $^{99m}\text{Tc}$ -RAFT-RGD

Duvall WL, Wijetunga MN, Klein TM, Razzouk L, Godbold J, Croft LB, Henzlova MJ\*// \*Mount Sinai Medical Center, Mount Sinai Department Cardiol, Mt Sinai Heart, Box 1030, 1 Gustave L Levy Pl, New York, NY 10029, USA

*J Nucl Cardiol* 2010 **17** (3) 370-377

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Fahey FH, Abramson ZR, Padwa BL, Zimmerman RE, Zurakowski D, Nissenbaum M, Kaban LB, Treves ST// Childrens Hosp, Div Nucl Med, 300 Longwood Ave, Boston, Ma 02115, USA

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Garcia EV, Folks R, Pak S, Taylor A// Emory Univ Hosp, Dept Radiol, 1364 Clifton Rd NE, Atlanta, Ga 30322, USA

*Nucl Med Commun* 2010 **31** (5) 366-374

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*Eur J Nucl Med Mol Imaging* 2010 **37** (4) 789-798

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*Radiology* 2010 **255** (2) 405-414

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Jogi J, Jonson B, Ekberg M, Bajc M// Skane Univ Hosp, Dept Clin Physiol, SE-22185 Lund, Sweden

*J Nucl Med* 2010 **51** (5) 735-741

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Krishnamurthy GT, Krishnamurthy S// Tual Community Hosp, Dept Nucl Med, Hillsboro, Or 97123, USA

*Nucl Med Commun* 2010 **31** (5) 346-354

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Lou L, Alibhai KN, Winkelaar GB, Turnbull RG, Hoskinson ME, Warshawski R, Jen H, Abele JT\*// \*Univ Alberta, Dept Radiol & Diagnost Imaging, 2A2.42 Walter C Mackenzie Hlth Ctr, 8440-112 St, Edmonton, Alberta, Canada T6G 2B7

*Nucl Med Commun* 2010 **31** (5) 411-416

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Miyazaki C, Harada H, Shuke N, Okizaki A, Miura M, Hirano T// Sapporo City Gen Hosp, Dept Diagn Radiol, N11, W13, Sapporo, Hokkaido 060 860, Japan

*Ann Nucl Med* 2010 **24** (3) 189-195

$^{99m}\text{Tc}$ -DTPA dynamic SPECT and CT volumetry for measuring split renal function in live kidney donors

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*Clin Nucl Med* 2010 **35** (4) 223-227

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Patel CN, Salahudeen HM, Lansdown M, Scarsbrook AF// St James Univ Hosp, Dept Nucl Med, Bexley Wing, Beckett St, Leeds LS9 7TF, England

*Clin Radiol* 2010 **65** (4) 278-287

Clinical utility of ultrasound and  $^{99m}\text{Tc}$  sestamibi SPECT/CT for preoperative localization of parathyroid adenoma in patients with primary hyperparathyroidism

Sciagra R, Zoccarato O, Bisi G, Pupi A// Univ Florence, Dept Clin Physiopathol, Nucl Med Unit, Viale Morgagni 85, IT-50134 Florence, Italy

*Q J Nucl Med Mol Imaging* 2009 **53** (6) 671-677

Decreased [ $^{99m}\text{Tc}$ ]sestamibi uptake with dobutamine versus diprydamole stress

Yang TJ, Aukema TS, Van Tinteren H, Burgers S, Olmos RV, Verheij M\*// \*Antoni van Leeuwenhoek Hosp, Netherlands Canc Inst, Dept Radiotherapy, Plesmanlaan 121, NL-1066 CX Amsterdam, The Netherlands

*Mol Imaging Biol* 2010 **12** (2) 174-180

Predicting early chemotherapy response with technetium-99m methoxyisobutylisonitrile SPECT/CT in advanced non-small cell lung cancer

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Bayrak E, Lambrecht FY\*, Durkan K, Yilmaz O// \*Ege Univ, Inst Nucl Sci, Dept Nucl Application, TR-35100 Izmir, Turkey

*Appl Radiat Isot* 2010 **68** (1) 33-36

*In vitro* evaluation, biodistribution in rats of radiolabeled raloxifene

Binderup T, Knigge U, Loft A, Mortensen J, Pfeifer A, Federspiel B, Hansen CP, Hojgaard L, Kjaer A\*// \*Rigshospitalet, Dept Clin Physiol Nucl Med & PET, Blegdamsvej 9, DK-2100 Copenhagen O, Denmark

*J Nucl Med* 2010 **51** (5) 704-712

Functional imaging of neuroendocrine tumors: A head-to-head comparison of somatostatin receptor scintigraphy,  $^{123}\text{I}$ -MIBG scintigraphy, and  $^{18}\text{F}$ -FDG PET

Bullich S, Cot A, Gallego J, Gunn RN, Suarez M, Pavia J, Ros D, Laruelle M, Catafau AM// Neurosci Imaging Grp, Mol Imaging Ctr CRC CIM, Barcelona Biomed Res Park, C/ Dr Aiguader 88, Soterrani 1, ES-08003 Barcelona, Spain

*Neuroimage* 2010 **50** (4) 1511-1518

Impact of scatter correction on  $\text{D}_2$  receptor occupancy measurements using  $^{123}\text{I}$ -IBZM SPECT: Comparison to  $^{11}\text{C}$ -raclopride PET

Geerlings JAC, Van Zuijlen A, Lohmann EM, Smit JWA, Stokkel MPM\*// \*Leiden Univ Med Ctr, Dept Radiol, Div Nucl Med, C4-Q, Albinusdreef 2, POB 9600, NL-2300 RC Leiden, The Netherlands

*Nucl Med Commun* 2010 **31** (5) 417-422

The value of  $^{131}\text{I}$  SPECT in the detection of recurrent differentiated thyroid cancer

Grudzinski JJ, Yoriyaz H, DeLuca PM, Weichert JP// Univ Wisconsin, Sch Med & Publ Hlth, Dept Med Phys, 1111 Highland Ave, Madison, WI 53706, USA

*Appl Radiat Isot* 2010 **68** (1) 59-65

Patient specific treatment planning for systemically administered radiopharmaceuticals using PET/CT and Monte Carlo simulation

Jentzen W, Hobbs RF, Stahl A, Knust J, Sgouros G, Bockisch A// Univ Duisburg Essen, Klin Nucl Med, Hufelandstrasse 55, DE-45122 Essen, Germany

*Eur J Nucl Med Mol Imaging* 2010 **37** (5) 884-895

Pre-therapeutic  $^{124}\text{I}$  PET(CT) dosimetry confirms low average absorbed doses per administered  $^{131}\text{I}$  activity to the salivary glands in radioiodine therapy of differentiated thyroid cancer

Kim EJ, Hong SH, Choi TH\*, Lee EA, Kim KM, Lee KC, An GI, El-Gamal MI, Cheon GJ, Choi CW, Lim SM// \*KIRAMS, Radiopharmaceut Res Team, Seoul 139 706, South Korea

*Appl Radiat Isot* 2010 **68** (6) 971-978

Effects of structural differences between radioiodine-labeled 1-(2'-fluoro-2'-deoxy-D-arabinofuranosyl)-5-iodouracil (FIAU) and 1-(2'-fluoro-2'-deoxy-D-ribofuranosyl)-5-iodouracil (FIRU) on HSV1-TK reporter gene imaging

Ma Y, Wan Y, Luo DH, Duan LG, Li L, Xia CQ, Chen XL\*// \*West China Hosp, Sichuan Univ, Res Unit Hepatobiliopancreatol, CN-610041 Chengdu, Sichuan Province, Peoples Rep China

*World J Gastroenterol* 2010 **16** (17) 2120-2128

Direct *in vivo* injection of  $^{131}\text{I}$ -GMS and its distribution and excretion in rabbit



Mi YX, Li YC\*, Long YH// \*West China Hospital, Sichuan University, Dept Nucl Med, 37 Guoxue Alley, CN-610041 Chengdu, Sichuan, Peoples Rep China

*Nucl Med Commun* 2010 **31** (5) 405-410

Imaging of radioiodine-labeled KH901, a tumor-specific oncolytic recombinant adenovirus in nude mice with human hepatocellular carcinoma

Pifarre P, Cuberas G, Hernandez J, Lorenzo C, Miquel F, Castell-Conesa J// Univ Autònoma Barcelona, Hosp Univ Vall Hebron, Passeig Vall Hebron 119-129, ES-08035 Barcelona, Spain

*Clin Nucl Med* 2010 **35** (4) 228-233

Cortical and subcortical patterns of <sup>123</sup>I iodobenzamide SPECT in striatal D<sub>2</sub> receptor parkinsonisms

Schmidt D, Linke R, Uder M, Kuwert T// Univ Erlangen Nurnberg, Clin Nucl Med, Krankenhausstr 12, DE-91054 Erlangen, Germany

*Eur J Nucl Med Mol Imaging* 2010 **37** (4) 699-705

Five months' follow-up of patients with and without iodine positive lymph node metastases of thyroid carcinoma as disclosed by <sup>131</sup>I-SPECT/CT at the first radioablation

## 9 Copper

Cheng Z, De Jesus OP, Kramer DJ, De A, Webster JM, Gheysens O, Levi J, Namavari M, Wang S, Park JM, Zhang R, Liu H, Lee B, Syud FA, Gambhir SS// Stanford Univ, Dept Radiol, MIPS, Bio-X Program, Stanford, Ca 94305, USA

*Mol Imaging Biol* 2010 **12** (3) 316-324

<sup>64</sup>Cu-labeled antibody molecules for imaging of HER2 expressing tumors

Dearling JLJ, Packard AB// Childrens Hosp, Dept Radiol, Div Nucl Med, 300 Longwood Ave, Boston, Ma 02115, USA

*Nucl Med Biol* 2010 **37** (3) 237-243

Some thoughts on the mechanism of cellular trapping of Cu(II)-ATSM

Fodero-Tavoletti MT, Villemagne VL\*, Paterson BM, White AR, Li QX, Camakaris J, O'Keefe GJ, Cappai R, Barnham KJ, Donnelly PS// \*Austin Health, Dept Nucl Med, Ctr PET, Studley Rd, Heidelberg, Vic 3010, Australia

*J Alzheimers Dis* 2010 **20** (1) 49-55

Bis(thiosemicarbazonato) <sup>64</sup>Cu complexes for positron emission tomography imaging of Alzheimer's disease

Glaus C, Rossin R, Welch MJ, Bao G\*\*// \*Georgia Inst Technol, Dept Biomed Engr, Atlanta, Ga 30332, USA

*Bioconjug Chem* 2010 **21** (4) 715-722

*In vivo* evaluation of <sup>64</sup>Cu-labeled magnetic nanoparticles as a dual-modality PET/MR imaging agent

Yoshida C, Sogawa C, Tsuji AB\*, Sudo H, Sugyo A, Uehara T, Hino O, Yoshii Y, Fujibayashi Y, Fukumura T, Koizumi M, Arano Y, Saga T// \*National Institute Radiological Science, Diagnostic Imaging Group, Molecular Imaging Centre, 4-9-1 Anagawa, Inage ku, Chiba 263 8555, Japan

*Nucl Med Commun* 2010 **31** (5) 380-388

Development of positron emission tomography imaging by <sup>64</sup>Cu-labeled Fab for detecting ERC/mesothelin in a mesothelioma mouse model

## 10 Gallium

Ambrosini V, Nanni C, Zompatori M, Campana D, Tomassetti P, Castellucci P, Allegrì V, Rubello D, Montini G, Franchi R, Fanti S\*\*// \*Univ Bologna, Azienda Ospedaliero, Policlin S Orsola Malpighi, Unita Operativa Med Nucl, IT-40138 Bologna, Italy

*Eur J Nucl Med Mol Imaging* 2010 **37** (4) 722-727

<sup>68</sup>Ga-DOTA-NOC PET/CT in comparison with CT for the detection of bone metastasis in patients with neuroendocrine tumours

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*J Nucl Med* 2010 **51** (5) 669-673

<sup>68</sup>Ga-DOTANOC PET/CT clinical impact in patients with neuroendocrine tumors

Haug AR, Assmann G, Rist C, Tiling R, Schmidt GP, Bartenstein P, Hacker M// Klinikum Ludwig Maximilians Univ Munchen, Nucl Med Klin & Poliklin, DE-81377 Munich, Germany

*Radiologe* 2010 **50** (4) 349-354

Quantification of immunohistochemical expression of somatostatin receptors in neuroendocrine tumors using <sup>68</sup>Ga-DOTATATE PET/CT (German, English Abstract)

Petrik M, Haas H, Dobrozemsky G, Lass-Flori C, Helbok A, Blatzer M, Dietrich H, Decristoforo C\*\*// \*Innsbruck Med Univ, Clin Dept Nucl Med, Anchrstr 35, AT-6020 Innsbruck, Austria

*J Nucl Med* 2010 **51** (4) 639-645

<sup>68</sup>Ga-siderophores for PET imaging of invasive pulmonary aspergillosis: Proof of principle

Ujula T, Salomaki S, Autio A, Luoto P, Tolvanen T, Lehtikainen P, Viljanen T, Sipila H, Harkonen P, Roivainen A\*\*// \*Turku Univ Hosp, Turku PET Ctr, FI-20521 Turku, Finland

*Mol Imaging Biol* 2010 **12** (3) 259-268

<sup>68</sup>Ga-chloride PET reveals human pancreatic adenocarcinoma xenografts in rats—comparison with FDG

Velikyan I, Sumdin A, Eriksson B, Lundqvist H, Sorensen J, Bergstrom M, Langstrom B\*\*// \*Uppsala Univ, Dept Biochem & Organ Chem, PET Ctr, Box 967, SE-75109 Uppsala, Sweden

*Nucl Med Biol* 2010 **37** (3) 265-275

*In vivo* binding of [<sup>68</sup>Ga]-DOTATOC to somatostatin receptors in neuroendocrine tumours - Impact of peptide mass

Versari A, Camellini L\*, Carlinfante G, Frasoldati A, Nicoli F, Grassi E, Gallo C, Giunta FP, Fraternali A, Salvo D, Asti M, Azzolini F, Iori V, Sassatelli R// \*Santa Maria Nuova Hosp, Gastroenterol Unit, Viale Risorgimento 80, IT-42100 Reggio Emilia, Italy

*Clin Nucl Med* 2010 **35** (5) 321-328

<sup>68</sup>Ga DOTATOC PET, endoscopic ultrasonography, and multidetector CT in the diagnosis of duodenopancreatic neuroendocrine tumors: A single-centre retrospective study

## 11 Indium

Amirkhanov NV, Zhang KJ, Aruva MR, Thakur ML, Wickstrom E\*\*// \*Thomas Jefferson Univ, Dept Biochem & Mol Biol, 233 Sth 10th St, Philadelphia, Pa 19107, USA

*Bioconjug Chem* 2010 **21** (4) 731-740

Imaging human pancreatic cancer xenografts by targeting mutant KRAS2 mRNA with [<sup>111</sup>In] DOTA<sub>n</sub>-poly(diamidopropanoyl)<sub>m</sub>-KRAS2 PNA-D(Cys-Ser-Lys-Cys) nanoparticles

Lyngbaek S, Ripa RS\*, Haack-Sorensen M, Cortsen A, Kragh L, Andersen CB, Jorgensen E, Kjaer A, Kastrop J, Hesse B// \*Frederiksberg Univ Hosp, Dept Clin Physiol & Nucl Med, Nordre Fasanvej 57, Frederiksberg, Denmark

*Int J Cardiovasc Imaging* 2010 **26** (3) 273-284

Serial *in vivo* imaging of the porcine heart after percutaneous, intramyocardially injected <sup>111</sup>In-labeled human mesenchymal stromal cells

Roca M, De Vries EFJ, Jamar F, Israel O, Signore A\*\*// \*Univ Roma La Sapienza, Ospedale S Andrea, Via Grottarossa 1035, IT-00189 Rome, Italy

*Eur J Nucl Med Mol Imaging* 2010 **37** (4) 835-841

Guidelines for the labelling of leucocytes with <sup>111</sup>In-oxine

Yoon JK, Park BN, Shim WY, Shin JY, Lee G, Ahn YH\*\*// \*Ajou Univ, Sch Med, Dept Neurosurg, San 5, Suwon 442 749, South Korea

*Nucl Med Biol* 2010 **37** (3) 381-388

*In vivo* tracking of <sup>111</sup>In-labeled bone marrow mesenchymal stem cells in acute brain trauma model

## 12 Hydrogen

Hasui A, Moribe K, Yamamoto K// Chiba Univ, Grad Sch Pharmaceut Sci, 1-33 Yayoi cho, Inage ku, Chiba 263 8522, Japan

*J Drug Deliv Sci Technol* 2010 **20** (2) 101-105

Transdermal iontophoretic delivery of [<sup>3</sup>H]-betamethasone sodium phosphate to the hind knee joints of rabbits: Visualization of drug permeation routes and distributions

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*Ann Nucl Med* 2010 **24** (4) 279-286

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*J Nucl Med* 2010 **51** (5) 761-767

<sup>89</sup>Zr-bevacizumab PET of early antiangiogenic tumor response to treatment with HSP90 inhibitor NVP-AUY922

Tinianow JN, Gill HS, Ogasawara A, Flores JE, Vanderbilt AN, Luis E, Vendler R, Darwish M, Junutula JR, Williams SP, Marik J// \*Genentech Inc, Dept Biomed Imaging, Genentech Res & Early Dev, San Francisco, Ca 94080, USA

*Nucl Med Biol* 2010 **37** (3) 289-297

Site-specifically <sup>89</sup>Zr-labeled monoclonal antibodies for immunoPET

## 14 Therapy

Amro H, Wilderman SJ, Dewaraja SJ, Robertson PL// University Michigan, Dept Radiat Oncol, UH-B2C490, 1500 East Med Dr, Ann Arbor, Mi 48109, USA

*J Nucl Med* 2010 **51** (4) 654-659

Methodology to incorporate biologically effective dose and equivalent uniform dose in patient-specific 3-dimensional dosimetry for non-Hodgkin lymphoma patients with <sup>131</sup>I-tositumomab therapy

Bahrami-Samani A, Ghannadi-Maragheh M, Jalilian AR\*, Mazidi M// \*NSTRI-RRDL, IR-14395-836 Tehran, Iran

*Radiochim Acta* 2010 **98** (4) 237-242

Biological studies of samarium-153 bleomycin complex in human breast cancer murine xenografts for therapeutic applications

Bauwens M, Wimana L, Keyaerts M, Peleman C, Lahoutte T, Kersemans K, Snykers S, Vinken M, Mertens J, Bossuyt A// Katholieke University Leuven, Laboratory Radiopharm, O&N 2, Herestr 49, Bus 821, BE-3000 Louvain, Belgium

*Cancer Biother Radiopharm* 2010 **25** (2) 225-231

Preliminary *in vivo* evaluation of [<sup>131</sup>I]-2-iodo-D-phenylalanine as a potential radionuclide therapeutic agent in R1M-fluc rhabdomyosarcoma tumor-bearing *nu/nu* mice using bioluminescent imaging

Bushnell DL, O'Dorisio TM, O'Dorisio MS, Menda Y, Hicks RJ, Van Cutsem E, Baulieu JL, Borson-Chazot F, Anthony L, Benson A, Oberg K, Grossman AB, Connolly M, Bouterfa H, Li Y, Kacena KA, LaFrance N, Pauwels SA// Univ Iowa, Roy J & Lucille A Carver Coll Med, Dept Radiol, Div Nucl Med, 200 Hawkins Dr, Iowa City, Ia 52242, USA

*J Clin Oncol* 2010 **28** (10) 1652-1659

<sup>90</sup>Y-Edotreotide for metastatic carcinoid refractory to octreotide

Chiesa C, Negri A, Albertini C, Azzeroni R, Setti E, Mainardi L, Aliberti G, Seregni E, Bombardieri E// IRCCS, Natl Canc Inst, Nucl Med Unit, Via G Venezian 1, IT-20133 Milan, Italy

*Q J Nucl Med Mol Imaging* 2009 **53** (6) 658-670

A practical dead time correction method in planar activity quantification for dosimetry during radionuclide therapy

Cwikla JB, Sankowski A, Seklecka N, Buscombe JR, Nasierowska-Guttmejer A, Jeziorski KG, Mikolajczak R, Pawlak D, Stepień K, Walecki J// Ministry Internal Affairs & Admin, Cent Clin Hosp, Dept Radiol & Diagn Imaging, PL-02507 Warsaw, Poland

*Ann Oncol* 2010 **21** (4) 787-794

Efficacy of radionuclide treatment DOTATATE <sup>90</sup>Y in patients with progressive metastatic gastroenteropancreatic neuroendocrine carcinomas (GEP-NETs): A phase II study

Dadachova E// Yeshiva Univ, Albert Einstein Coll Med, Dept Nucl Med, 1695A Eastchester Rd, Bronx, NY 10461, USA

*Semin Nucl Med* 2010 **40** (3) 204-208

Cancer therapy with  $\alpha$ -emitters labeled peptides (Review)

Iagaru A, Mitra ES, Ganjoo K, Knox SJ, Goris ML// Stanford Univ Med Ctr, Div Nucl Med, 300 Pasteur Dr, Stanford, Ca 94305, USA

*Mol Imaging Biol* 2010 **12** (2) 198-203

<sup>131</sup>I-Tositumomab (Bexxar®) vs. <sup>90</sup>Y-ibritumomab (Zevalin®) therapy of low-grade refractory/relapsed non-Hodgkin lymphoma

Kucka J, Hruby M, Lebeda O// \*Acad Sci Czech Republic, Inst Nucl Phys, Publ Res Inst, Husinec-Rez 130, CZ-25068 Rez, Czech Republic

*Appl Radiat Isot* 2010 **68** (6) 1073-1078

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Molina-Trinidad EM, De Murphy CA, Jung-Cook H, Stack EM, Pedraza-Lopez M, Morales-Marquez JL, Serrano GV// Inst Politecn Nacl, Unidad Legaria, Ctr Invest Ciencia Aplicada & Tecnol Avanzada, Legaria 694, MX-11500 Mexico City, DF, Mexico

*J Pharm Pharmacol* 2010 **62** (4) 456-461

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Navalkisoor S, Alhashimi DM, Quigley AM, Caplin ME, Buscombe JR// Royal Free Hosp, Dept Nucl Med, Pond St, London NW3 2QG, England

*Eur J Nucl Med Mol Imaging* 2010 **37** (5) 904-912

Efficacy of using a standard activity of <sup>131</sup>I-MIBG therapy in patients with disseminated neuroendocrine tumours

Pacilio M, Betti M, Cicone F, Del Mastro C, Montani L, Chiacchiarelli L, Monaco A, Santini E, Scopinaro F// Azienda Ospedaliera S Camillo Forlanini, Dept Med Phys, Rome, Italy

*Eur J Nucl Med Mol Imaging* 2010 **37** (5) 862-873

A theoretical dose-escalation study based on biological effective dose in radioimmunotherapy with <sup>90</sup>Y-ibritumomab tiuxetan (Zevalin)

Petrich T, Korkmaz Z, Krull D, Fromke C, Meyer GJ, Knapp WH// Hannover Univ, Sch Med, Dept Nucl Med, Carl Neuberg Str 1, DE-30625 Hannover, Germany

*Eur J Nucl Med Mol Imaging* 2010 **37** (5) 851-861

*In vitro* experimental <sup>211</sup>At-anti-CD33 antibody therapy of leukaemia cells overcomes cellular resistance seen *in vivo* against gemtuzumab ozogamicin

Pool SE, Krenning EP, Koning GA, Van Eijck CHJ, Teunissen JJM, Kam B, Valkema R, Kwekkeboom DJ, De Jong M// Erasmus MC, Dept Surg Oncol & Nucl Med, Dr Molewaterpl 50, NL-3015 GE Rotterdam, The Netherlands

*Semin Nucl Med* 2010 **40** (3) 209-218

Preclinical and clinical studies of peptide receptor radionuclide therapy (Review)

Rolleman EJ, Meils M, Valkema R, Boerman OC, Krenning EP, De Jong M// Erasmus MC, Dept Nucl Med, S Gravendijkwal 230, NL-3015 CE Rotterdam, The Netherlands

*Eur J Nucl Med Mol Imaging* 2010 **37** (5) 1018-1031

Kidney protection during peptide receptor radionuclide therapy with somatostatin analogues (Review)

Sharkey RM, Rossi EA, McBride WJ, Chang CH, Goldenberg DM// Ctr Mol Med & Immunol, Garden State Canc Ctr, 520 Belleville Ave, Belleville, NJ 07109, USA

*Semin Nucl Med* 2010 **40** (3) 190-203

Recombinant bispecific monoclonal antibodies prepared by the dock-and-lock strategy for pretargeted radioimmunotherapy (Review)

Sun J, Liu L\*, Jiang XY, Chen DZ, Huang Y// \*Southeast Univ, Nucl Med Technol Inst, 87 Dingjingjiao Rd, CN-210009 Nanjing, Jiangsu, PR China

*Cancer Biother Radiopharm* 2010 **25** (2) 155-164

Therapeutic effects of radiolabeled 17-allylamino-17-demethoxygeldanamycin on human H460 nonsmall-cell lung carcinoma xenografts in mice

Tavares AAS, Tavares JMRS// \*Univ Porto, Fac Engn, Dept Engn Mecan, Rua Dr Roberto Frias s/n, PT-4200-465 Oporto, Portugal

*Int J Radiat Biol* 2010 **86** (4) 261-270

<sup>99m</sup>Tc Auger electrons for targeted tumour therapy: A review

Wang AY, Kuo CL, Lin JL, Fu CM, Wang YF// Yuanpei Univ, Dept Radiol Technol, 306 Yuanpei St, Hsinchu 300, Taiwan

*J Radioanal Nucl Chem* 2010 **284** (2) 405-413

Study of magnetic ferrite nanoparticles labeled with <sup>99m</sup>Tc-pertechnetate

Zankl M, Petoussi-Hens N, Janzen T, Uusijarvi H, Schlatti H, Li WB, Giussani A, Hoeschen C// German Res Ctr Environm Hlth, Inst Radiat Protect, Helmholtz Zentrum Munchen, Neuherberg, Germany

*Radiat Prot Dosimetry* 2010 **139** (1-3) 245-249

New calculations for internal dosimetry of  $\beta$ -emitting radiopharmaceuticals

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Bullock AK, Jeffrey WH// \*Univ West Florida, Ctr Environm Diagn & Bioremediat, Pensacola, Fl 32514, USA

*Photochem Photobiol* 2010 **86** (3) 593-599

Temperature and solar radiation interactions on <sup>3</sup>H-leucine incorporation by bacterioplankton in a subtropical estuary

Singh N, Singh SB, Mukerjee I, Gupta S, Gajbhiye VT, Sharma PK, Goel M, Dureja P// \*Indian Agric Res Inst, Div Agric Chem, IN-110012 New Delhi, India

*J Environ Sci Health B* 2010 **45** (2) 123-127

Metabolism of <sup>14</sup>C-azoxystrobin in water at different pH

Sukul P, Zuhlke S, Lamshoft M, Rosales-Conrado N, Spittler M// \*TU Dortmund, Inst Environm Res, Otto Hahn Str 6, DE-44221 Dortmund, Germany

*Environ Pollut* 2010 **158** (5) 1542-1550

Dissipation and metabolism of <sup>14</sup>C-spiroxamine in soil under laboratory condition

## 16 Analytical techniques

Gonzalez-Antuna A, Rodriguez-Gonzalez P, Centineo G, Alonso JIG// \*Univ Oviedo, Fac Chem, Dept Phys & Anal Chem, Oviedo, Spain

*Analyst* 2010 **135** (5) 953-964

Evaluation of minimal <sup>13</sup>C-labelling for stable isotope dilution in organic analysis