

Inorganic Chemistry, Radiochemistry and Radiopharmacy

Inorganic and Organometallic Chemistry

Journals

J.B. Branco, A.P. Gonçalves, A. Pires de Matos, Isoprene gas phase hydrogenation catalyzed by ThNi_2 and UNi_2 , *J. Alloys Compd.* 465 (2008) 361-366.

J.B. Branco, D. Ballivet-Tkatchenko, A. Pires de Matos, Reduction and catalytic behaviour of heterobimetallic copper-lanthanide oxides, *J. Alloys Compd.* 464 (2008) 399-406.

J.K. Gibson, R.G. Haire, M. Santos, A. Pires de Matos, J. Marçalo, Gas-Phase Oxidation of Cm^+ and Cm^{2+} - Thermodynamics of Neutral and Ionized CmO , *J. Phys. Chem. A* 112 (2008), 11373-11381.

J. Marçalo, M. Santos, A. Pires de Matos, J.K. Gibson, R.G. Haire, Gas-Phase Reactions of Doubly Charged Lanthanide Cations with Alkanes and Alkenes. Trends in Metal(2+) Reactivity, *J. Phys. Chem. A* 112 (2008) 12647-12656.

P.J.A. Madeira, P.J. Costa, M.T. Fernandez, J.A. Martinho Simões, J.P. Leal, Determination of gas-phase acidities of dimethylphenols: combined experimental and theoretical study, *J. Am. Soc. Mass Spectrom.* 19 (2008) 1590-1599.

C.C.L. Pereira, C.V. Diogo, A. Burgeiro, P.J. Oliveira, M.P.M. Marques, S.S. Braga, F.A. Almeida Paz, M. Pillinger, I.S. Goncalves, Complex Formation between Heptakis(2,6-di-O-methyl)-beta;-cyclodextrin and Cyclopentadienyl Molybdenum(II) Dicarbonyl Complexes: Structural Studies and Cytotoxicity Evaluations, *Organometallics* 27 (2008) 4948-4956.

Z. Petrovski, M.R.P. Norton de Matos, S.S. Braga, C.C.L. Pereira, M.L. Matos, I.S. Gonçalves, M. Pillinger, P.M. Alves, C.C. Romão, Synthesis, characterization and antitumor activity of 1,2-disubstituted ferrocenes and cyclodextrin inclusion complexes, *J. Organomet. Chem.* 693 (2008) 675-684.

F. Lopes, A. Ruivo, V.S.F. Muralha, A. Lima, P. Duarte, I. Paiva, R. Trindade, A. Pires de Matos, Uranium Glass in Museum Collections, *J. Cult. Herit.* 9 (2008) e64-e68.

A. Ruivo, C. Gomes, A. Lima, M.L. Botelho, R. Melo, A. Belchior, A. Pires de Matos, Gold nanoparticles in ancient and contemporary ruby glass, *J. Cult. Herit.* 9 (2008) e134-e137.

T. Almeida, A. Ruivo, A. Pires de Matos, R.M. Oliveira, A. Antunes, Luminescent glasses in art, *J. Cult. Herit.* 9 (2008) e138-e142.

Communications

P. Madeira, H.F.P. Martins, P. Costa, J.P. Leal, J.A. Martinho Simões, M.T. Fernandez, Gas phase acidity of phenolic/polyphenolic compounds. Insights to their antioxidant activity, *IWAMIP2008- International Workshop on Atomic, Molecular and Ionic Processes*, Alcochete, Jul. 2008, invited.

F. Lopes, A. Pires de Matos, Marinha Grande glass – a contribution to its history, *Society of Glass Technology Annual Meeting*, Cambridge, U. K., Sep. 2008, invited.

A. Ruivo, C. Gomes, A. Lima, M. L. Botelho, R. Melo, A. Belchior, A. Pires de Matos, Gold nanoparticles in ancient and contemporary ruby glass, *II International Conference on Glass Science in Art and Conservation*, Valencia, Spain, Mar. 2008, invited.

A. Pires de Matos, Mass Spectrometry in Cultural Heritage, *2nd Residential Summer School in Chemistry and Conservation Science*, University of Palermo, Italy, Jul. 2008, invited.

A. Pires de Matos, Glass in Cultural Heritage – An Introduction to Conservation and Provenance Studies, *2nd Residential Summer School in Chemistry and Conservation Science*, University of Palermo, Italy, Jul. 2008, invited.

A. Pires de Matos, A Journey through the World of Glass, *Workshop in Cultural Heritage: Applications on Conservation and Restoration*, Centro de Física Atómica da Universidade de Lisboa, Lisboa, Dec. 2008, oral.

J.N.C. Lopes, J.P. Leal, M.E. Minas da Piedade, A.A. Tomaszowska, J.M.S.S. Esperança, L.P.N. Rebelo, K.R. Seddon, Bridging the Gap between Ionic Liquids and Molten Salts: The Gas Phase of Salts based on the Bistriflamide Anion, *Molten Salt Discussion Group Christmas Research Meeting*, London, U. K., Dec. 2008, oral.

A. Ruivo, V.S.F. Muralha, C.A.T. Laia, A. Pires de Matos, Interplay between Energy and Electron Transfer in the Luminescence Quenching of Eu(III) in Glass by Transition Metals, *XXII Ind IUPAC Symposium on Photochemistry*, Gothenburg, Sweden, Jul. 2008, oral.

T. Almeida, A. Ruivo, A. Pires de Matos, R.M. Oliveira, A. Antunes, Luminescent glasses in art, *II International Conference on Glass Science in Art and Conservation*, Valencia, Spain, Mar. 2008, oral.

PUBLICATIONS

- J. Caen, O. Schalm, A. Pires de Matos, A. Ruivo, M. Ferreira, K. Janssens, Reproduction of 16-17th Centuries Enamels for Stained Glass after Original Compositions and Recipes, *II International Conference on Glass Science in Art and Conservation*, Valencia, Spain, Mar. 2008, oral.
- R.C. Santos, H.F.M.C. Martiniano, J.P. Leal, B.J. Costa Cabral, J.A. Martinho Simões, ThermInfo: A Chemoinformatics Database System for Online Properties Prediction, *XXI Encontro Nacional da SPQ*, Porto, Jun. 2008, oral.
- A. Janeco, N.R. Pinhão, J.B. Branco, A. Ferreira, L. Redondo, Estudo de uma descarga de barreira dielétrica para a oxidação de metano, *Física 2008 (16ª Conferência Nacional de Física e 17º Encontro Ibérico para o Ensino da Física)*, IST, Lisboa, Sep. 2008, oral.
- J.K. Gibson, J. Marçalo, M. Santos, A. Pires de Matos, R.G. Haire, M.C. Michelini, N. Russo, M.K. Mrozik, R.M. Pitzer, B.E. Bursten, Actinide Ion-Molecule Reactions in the Gas Phase: Elementary Molecular Organization, *NATO Advanced Research Workshop - Molecular Self-Organization in Micro-, Nano-, and Macro-Dimensions: From Molecules to Water, to Nanoparticles, DNA and Proteins*, Kiev, Ukraine, Jun. 2008, oral.
- M.C. Michelini, E. di Santo, E. Sicilia, N. Russo, J.K. Gibson, J. Marçalo, Reattività di Ioni Attinidi in Fase Gassosa, *XXXIV Congresso de Químicos Teóricos de Expressão Latina*, Cetraro (CS), Italy, Jul. 2008, oral.
- J.M. Carretas, S. Barroso, J. Cui, I.C. Santos, N. Marques, A.M. Martins, Yttrium and Titanium Complexes with a Diaminobisphenolate Ligand and Their Application in the ROP of μ -Caprolactone, *XVI International Symposium on Homogeneous Catalysis*, Florence, Italy, Jul. 2008, poster.
- J.M. Carretas, J. Cui, I.C. Santos, N. Marques, Lanthanide Complexes with Linked 1,4,7-Triazacyclononane Aryloxide Ancillary Ligand: Synthesis and Reactivity, *XXIII International Conference on Organometallic Chemistry (ICOMC)*, Rennes, France, Jul. 2008, poster.
- C.C.L. Pereira, S.S. Balula, F.A. Almeida Paz, A.A. Valente, M. Pillinger, J. Klinowski, I.S. Gonçalves, New dioxo(m-oxo)molybdenum(VI) dimers as efficient catalysts in olefin epoxidation, *XXIII International Conference on Organometallic Chemistry (ICOMC)*, Rennes, France, Jul. 2008, poster.
- M.C. Michelini, J.K. Gibson, J. Marçalo, N. Russo, Gas-Phase Chemistry of Actinide Ions: A Combined Theoretical and Experimental Study of the Reactivity of Anionic Uranium Oxides (UO_x^- , $x=3,4$) with Methanol, *NATO Advanced Research Workshop - Molecular Self-Organization in Micro-, Nano-, and Macro-Dimensions: From Molecules to Water, to Nanoparticles, DNA and Proteins*, Kiev, Ukraine, Jun. 2008, poster.
- F. Lopes, A. Ruivo, V.S.F. Muralha, A. Lima, P. Duarte, I. Paiva, R. Trindade, A. Pires de Matos, Uranium Glass in Museum Collections, *II International Conference on Glass Science in Art and Conservation*, Valencia, Spain, Mar. 2008, poster.
- A. Ferreira, J.B. Branco, A.P. Gonçalves, A. Janeco, N. Pinhão, Partial oxidation of methane over heterobimetallic nickel-lanthanide oxides, *1ª Portuguese Young Chemists Meeting (IPYChem)*, IST, Lisboa, Oct. 2008, poster.
- A. Ferreira, J.B. Branco, A.P. Gonçalves, A. Janeco, N. Pinhão, Partial oxidation of methane over heterobimetallic copper-lanthanide oxides, *XXI Encontro Nacional da SPQ*, Porto, Jun. 2008, poster.
- M.C.F. Magalhães, J.A.L. Costa, R.B. Faria, M.H. Garcia, R.T. Henriques, B.J. Herold, A.A.S.C. Machado, J. Marçalo, O.A. Serra, Nomenclatura dos Elementos Químicos, *XXI Encontro Nacional da SPQ*, Porto, Jun. 2008, poster.
- M. Pinheiro, J.P. Leal, A Aventura, o Mistério e a Química, *XXI Encontro Nacional da SPQ*, Porto, Jun. 2008, poster.
- S.R. Gomes, F.M.A. Margaça, I.M.M. Salvado, J.P. Leal, J.P. Santos, C. Marques, E. Alves, Caracterização de materiais obtidos por irradiação γ da mistura de precursores PDMS/TEOS/PrZr, *Física 2008 - 16ª Conferência Nacional de Física*, Costa de Caparica, Sep. 2008, poster.

Internal Reports

T. Pardal, R. Fernandes, M. Gonçalves, J. Condeço, A. Boavida, J. Branco, Energon - Space Long Term R&D, ESA / ESTEC - OMNIDEA, Contract No. 19594 / 06 / NL / PA, Final Report - May 2008, pp. 1-108.

Other publications

L.A.P. Rosa, J.P. Leal, A Química na Net, a Net da Química, *Química* 108 (2008) 22-23.

Theses

M.Sc.

Filipa M.P. Lopes, Uranium glass in museum collections, Departamento de Conservação e Restauro, Universidade Nova de Lisboa, 2008. Supervisor: A. Pires de Matos.

Cristina Gomes: Estudos das Cores Vermelha e Púrpura em Objectos de Vidro, Departamento de Conservação e Restauro, Universidade Nova de Lisboa, 2008. Supervisor: A. Pires de Matos.

Andreia Ruivo, Síntese de Vidro Rubi por Redução de Au^+ e Cu^+ e Formação de Nanopartículas, Faculdade de Ciências, Universidade de Lisboa, 2008. Supervisor: A. Pires de Matos.

Mohammed Faddoul, Contribuição para o esclarecimento da função antioxidante de compostos fenólicos. Determinação da sua acidez em fase gasosa., Faculdade de Ciências, Universidade de Lisboa, 2008. Supervisors: J.P. Leal, M.T. Fernandez (FCUL).

Rute Isabel Carvalho Amadeu, Electronegatividade: uma chave para a resolução das dificuldades de aprendizagem em química, Faculdade de Ciências, Universidade de Lisboa, 2008. Supervisor: J.P. Leal.

Paulo Jorge Gonçalves, Produção e Aplicação de Recursos para Utilização de Quadros Interactivos no Ensino da Física e da Química, Faculdade de Ciências, Universidade de Lisboa, 2008. Supervisor: J.P. Leal.

Maria Manuela Lameiras Varela, Software Educacional para a área de Físico-Química: Programa Gerador de Testes – Vertente Química, Faculdade de Ciências, Universidade de Lisboa, 2008. Supervisor: J.P. Leal.

PhD

Marta de Campos Baptista Guimarães Santos, Estudos de Química de Actínidos por Espectrometria de Massa, Faculdade de Ciências, Universidade de Lisboa, 2008. Supervisors: J. Marçalo, M.H. Florêncio (FCUL).

Maria Helena Freitas Casimiro, Preparação e Caracterização de Sistemas de Libertação de Fármacos de Base Quitosano, Faculdade de Ciências, Universidade de Lisboa, 2008. Supervisors: J.P. Leal, M.H. Gil (FCTUC).

Márcia Vilarigues, Estudo do Efeito da Adição de Iões Metálicos na Corrosão de Vidros Potássicos, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 2008. Supervisors: R.M.C. Silva (UFA-ITN), A. Pires de Matos.

Micaela Margarida Ferreira de Sousa, A Study in Historical Dyes Used on Textiles: Dragon's Blood, Indigo and Mauve, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 2008. Supervisors: M.J. Melo (FCT-UNL), J. Marçalo.

Radiopharmaceutical Sciences

Journals

R. F. Vitor, I. Correia, M. Videira, F. Marques, A. Paulo, J. C. Pessoa, G. Viola, G. G. Martins, I. Santos, Pyrazolyl-Diamine Ligands That Bear Anthracenyl Moieties and Their Rhenium(I) Tricarbonyl Complexes: Synthesis, Characterization and DNA-Binding Properties, *ChemBioChem* 9 (2008) 131-142.

M. Videira, L. Maria, A. Paulo, I. C. Santos, I. Santos, P. D. Vaz, M. J. Calhorda, Mixed-ligand rhenium tricarbonyl complexes anchored on a (κ^2 -H,S) trihydro(mercaptoimidazolyl)borate: A missing binding motif for soft scorpionates, *Organometallics* 27 (2008) 1334-1337.

M. Valldosera, M. Mansò, C. Xavier, P. Raposinho, J. D. G. Correia, I. Santos, P. Gomes, Comparative study of chemical approaches to the solid-phase synthesis of a tumor-seeking α -MSH analogue, *Int. J. Pept. Res. Ther.* 14 (2008) 273-281.

P. D. Raposinho, C. Xavier, J. D. G. Correia, S. Falcão, P. Gomes, I. Santos, Melanoma targeting with α -melanocyte stimulating hormone analogs labeled with fac-[$^{99m}\text{Tc}(\text{CO})_3$] $^+$: Effect of cyclization on tumor-seeking properties, *J. Biol. Inorg. Chem.* 13 (2008) 449-459.

P. D. Raposinho, J. D. G. Correia, S. Alves, M. F. Botelho, Ana C. Santos, I. Santos, A $^{99m}\text{Tc}(\text{CO})_3$ -labeled pyrazolyl- α -melanocyte-stimulating hormone analog conjugate for melanoma targeting, *Nucl. Med. Biol.* 35 (2008) 91-99.

C. Fernandes, I. C. Santos, I. Santos, H-J. Pietzsch, J.-U. Kunstler, W. Kraus, A. Rey, N. Margaritis, A. Bourkoulou, A. Chiotellis, M. Paravatou-Petsotase, I.

Pirmettis, Rhenium and technetium complexes bearing quinazoline derivatives: progress towards a ^{99m}Tc biomarker for EGFR-TK imaging?, *Dalton Trans.* (2008) 3215-3225.

A Schmidt, LK Hughes, Z Cai, F Mendes, Li H, MD Amaral, D. N. Sheppard, Prolonged treatment of cells with genistein modulates the expression and function of the cystic fibrosis transmembrane conductance regulator Cl- channel, *B J Pharmacol* 153 (2008) 1311-23.

M. A. Santos, S. Gama, M. Gil, L. Gano, A new approach for potential combined chelation therapy using mono- and bis-hydroxypyridinones. *Hemoglobin* 32 (2008)147-156.

M. Forsterova, Z. Jandurova, F. Marques, L.Gano, P. Lubal, J. Vanek, P. Hermann, I. Santos, Chemical and Biological Evaluation of ^{153}Sm and ^{166}Ho Complexes of 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetrakis(methylphosphonic acid monoethylester) ($\text{H}_4\text{dotp}^{\text{OEt}}$), *J. Inorg. Biochem.* 102 (2008) 1531-1540.

C. Xavier, C. Giannini, L. Gano, S. Maiorana, R. Alberto, I. Santos, Synthesis, characterization, and evaluation of a novel $^{99m}\text{Tc}(\text{CO})_3$ -pyrazolyl conjugate of a peptide nucleic acid sequence, *J. Biol. Inorg. Chem.* 13 (2008) 1335-1334.

T. Yasuda, Y. Shima, K. Ideta, M.C. Oliveira, T. Thiemann, 7 α -Alkoxyestra-1,3,5,8,10-trienes, *J. Chem. Res.* (2008) 32-37.

C Neto, MC Oliveira, L Gano, F Marques, Isabel Santos, G Morais, T Yasuda, T Thiemann, F Botelho, C. F. Oliveira Evaluation of novel radioiodinated C7-substituted $\Delta^{6,7}$ -estradiol derivatives for molecular

recognition of ER-positive breast tumours. *Curr Radiopharm.*

Patents

I. Santos, A. Paulo, Tricarbonyl Complexes with Tridentate Chelators for Myocardium Imaging, WO 2008/061792 A2.

Proceedings

T. Yasuda, S. Tsurukawa, T. Thiemann, M.C. Neves Oliveira, C. Neto, L.Gano, F. Marques, G.R. Morais, A.C. Santos, F. Botelho, C. Oliveira, C7- and C17-Substituted Estrane Derivatives As Potential Cancer Diagnostic Agents, 10th Cross Straits Symp. On Materials, Energy and Environmental Engineering (CSS-10), Kyushu University, Fukuoka, Japan, pp 114-116, 2008.

Other Reports

T. Esteves, Complexos de Elementos Emissores de Radiação Gama e de Electrões Auger para Diagnóstico e/ou Terapia do Cancro, Curso de Formação Avançada em Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa, January 2008.

C. Neto, Síntese, Caracterização e Avaliação Biológica de Ligandos para Receptores de Estrogénio Marcados com Radiohalogénios e com ^{99m}Tc , Curso de Formação Avançada em Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa, January 2008.

E. Palma, Ligandos Bifuncionais Contendo Grupos Fosfonato para Ligação ao Fragmento Metálico [$^{99m}\text{Tc}(\text{CO})_3$] $^+$: Avaliação para Imagiologia e/ou Terapia Óssea e para Ligação a Pequenos Oligonucleótidos, Curso de Formação Avançada em Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa, May, 2008.

M.C. Oliveira, C. Neto, L. Gano, F. Marques, I. Santos, T. Thiemann, C. Santos, F. Botelho, C. F. Oliveira, Novel estrogen receptor ligands as potential probes for targeted tumour imaging and therapy, (CIMAGO/FLAD 09/05). Progress report submitted to CIMAGO/FLAD, 2008.

Communications

A. Paulo, R. F. Vitor, T. Esteves, C. Xavier, F. Marques, I. Santos, G. G. Martins, Novel Organometallic Complexes for Multimodal Imaging, TOPIM'08 Hot Topics in Molecular Imaging 2008: Imaging of Nano-objects, Les Houches (France), February, 2008, oral.

B. L. Oliveira, Re and ^{99m}Tc Tricarbonyl Complexes Containing Guanidinium Moieties for Probing iNOS *in*

vivo, 1st Portuguese Young Chemists Meeting, Lisboa, Portugal, 2008, oral.

M.C. Oliveira C. Neto, L. Gano, F. Marques, I. Santos, T. Thiemann, C. Santos, F. Botelho, C. F. Oliveira, Novel estrogen receptor ligands as potential probes for targeted tumour imaging and therapy, CIMAGO Meeting, HUC, Coimbra, 2008, oral.

F. Silva, R. Garcia, F. Marques, A. Paulo, I. C. Santos, I. Santos, Gallium(III) Complexes Anchored by Pyrazolyl-Based Chelators: Synthesis, Characterization and Biological Evaluation, European Conference on Metal-Based Systems for Molecular Imaging Applications, Sacavém (Portugal), April, 2008, poster.

R. Garcia, P. Fousková, L. Gano, P. Campello, A. Paulo, E. Toth, I. Santos, Gallium Complex of a Bifunctional Chelator Bearing a Quinazoline Moiety for the Targeting of Epidermal Growth Factor Receptors- Tyrosine Kinase, Conference on Metal-Based Systems for Molecular Imaging Applications, Sacavém (Portugal), April, 2008, poster.

C. Moura, P. D. Raposinho, L. Gano, A. Paulo, I. Santos, Synthesis, Characterization and Biological Evaluation of $^{99m}\text{Tc}(\text{I})$ Tricarbonyl Complexes for SPECT Imaging of Malignant Melanoma, 2008 World Molecular Imaging Congress, Nice (France), September, 2008, poster.

T. Esteves, C. Xavier, S. Gama, F. Marques, A. Paulo, G. Martins, J. C. Pessoa, G. Viola, I. Santos, Tricarbonyl Complexes Containing Acridine Fluorophores for Multimodal Imaging, 2008 World Molecular Imaging Congress, Nice (France), September, 2008, poster.

R. Garcia, P. Fousková, L. Gano, A. Paulo, E. Toth, I. Santos, A Ga(III) Complex as a Potencial Radiotracer for the Targeting of Epidermal Growth Factor Receptors-Tyrosine Kinase, 2008 World Molecular Imaging Congress, Nice (France), September, 2008, poster.

A. Paulo, V. Caveliers, C. Fernandes, H. Knight, M. Bauwens, T. Lahoutte, I. Santos, A New Myocardial Perfusion Imaging Agent: Evaluation in Rats and Comparison with ^{99m}Tc -Sestamibi and ^{99m}Tc -Tetrofosmin, 2008 World Molecular Imaging Congress, Nice (France), September, 2008, poster.

B. L. Oliveira, J. D. G. Correia, P. D. Raposinho, I. Santos, C. Cordeiro, A. P. Freire, Novel $^{99m}\text{Tc}(\text{CO})_3$ -complexes containing guanidinium moieties potentially useful for probing nitric oxide synthase, 2008 World Molecular Imaging Congress, Nice, France, September, 2008.

E. Palma, B. L. Oliveira, J. D. G. Correia, L. Gano, I. Santos, $^{99m}\text{Tc}(\text{CO})_3$ -Labeled Bisphosphonates for Bone Imaging, 2008 World Molecular Imaging Congress, Nice, France, September, 2008.

T. Yasuda, T. Thiemann, C. Neto, M. C. Oliveira, L. Gano, F. Marques, I. Santos, G. Morais, C. Santos, F. Botelho, C. Oliveira, Substituted estra-1,3,5(10),6-

tetraen-3,17beta-diols as potential ligands for the estrogen receptor - synthesis and biochemical studies, 88th Meeting of the Chemical Society of Japan, Rikkyo University, Tokyo, Japan, March 2008, poster.

K. Shiine, M.C. Oliveira, G. Morais, M. Imai, E. Inohae, C. Yamamoto, S. Mataka, T. Thiemann, Acid-catalysed reaction of steroidal ketones, indanones and tetralones with neopentyl glycol under forced conditions, 88th Spring Meeting of the Chemical Society of Japan, Rikkyo University, Tokyo, Japan, March 2008, poster.

C. Neto, M.C. Oliveira, L. Gano, F. Marques, I. Santos, G.R. Morais, T. Yasuda, T. Thiemann, F. Botelho, C.F. Oliveira, Novel radioiodinated estradiols as potential imaging agents for estrogen positive breast tumours, World Molecular Imaging Congress (WMIC), Nice, September, 2008, poster.

R. Garcia, P. Fousková, L. Gano, A. Paulo, E. Toth, I. Santos, A Ga(III) complex as a potential radiotracer for the targeting of epidermal growth factor receptors-tyrosine kinase, *World Molecular Imaging Congress (WMIC)*, Nice, September, 2008, poster.

C. Xavier, C. Giannini, L. Gano, S. Maiorana, R. Alberto, I. Santos, Synthesis, characterization and evaluation of a novel ^{99m}Tc(CO)₃-pyrazolyl conjugate of a peptide nucleic acid sequence, *World Molecular Imaging Congress (WMIC)*, Nice, September, 2008, poster.

B. Oliveira, J.D.G. Correia, L. Gano, I. Santos, A. Ferreira, C. Cordeiro, A. Ponces, Novel ^{99m}Tc(CO)₃ complexes containing guanidinium moieties potentially useful for probing NOS in vivo, *World Molecular Imaging Congress (WMIC)*, Nice, September, 2008, poster.

R. Garcia, P. Fousková, L. Gano, P. Campello, A. Paulo, E. Toth, I. Santos, Gallium complex of a bifunctional chelator bearing a quinazoline moiety for the targeting of epidermal growth factor receptors-tyrosine kinase, *Annual Workshop of COST Chemistry D38, Metal-Based Systems for Molecular Imaging Applications*, Lisboa, April, 2008, poster.

S. Lacerda, M.P.C. Campello, F. Marques, L. Gano, I. Santos, A bifunctional tetraazamacrocyclic bearing a sulphur pendant arm, *Annual Workshop of COST Chemistry D38, Metal-Based Systems for Molecular Imaging Applications*, Lisboa, April, 2008, poster.

M.P.C. Campello, S. Lacerda, P. Hermann, J. Kotek, V. Kubiček, I. Lukeš, C.F.G.C. Geraldes, I. Santos, Structural Studies of Lanthanide (III) Complexes with *trans*-DO2A2P, *COST Action D38, European Conference on Metal-Based Systems for Molecular Imaging Applications*, Lisboa, Portugal, April 2008 poster.

Marina Balbina, M.P.C. Campello, S. Lacerda, I. Santos, C.F.G.C. Geraldes, Solution Studies of Lanthanide Complexes with DOA3P, *COST Action D38, European Conference on Metal-Based Systems for Molecular Imaging Applications*, Lisboa, Portugal, April 2008. poster.

L. Maria, J. R. Ascenso, I. Santos, Structural Analysis by NMR Techniques of a Re(CO)₃-pyrazolyl Conjugate of cyclo-(Arg-Gly-Asp-D-Tyr-Lys), IV Reunião Bienal do GERMN, I Reunião Ibérica de RMN, Sevilha, September 2008, poster.

S. Luz, S. Dahimène, F. Mendes, J. Almaça, R. Barro-Soria, K. Kunzelmann, M.D. Amaral, Development of Post-Genomics Microscopy Assays to Automatically Screen for Protein Targets Affecting CFTR Traffic., European Cystic Fibrosis Society Conference - New Frontiers in the Basic Science of Cystic Fibrosis, Régua, Portugal, April 2008.

C. M. Farinha, F. Mendes, M. Roxo-Rosa, M.D. Amaral, Low temperature allows mutant CFTR to bypass the endoplasmic reticulum quality control., European Cystic Fibrosis Society Conference - New Frontiers in the Basic Science of Cystic Fibrosis, Régua, Portugal, April 2008.

Theses

M.Sc.

F. Silva, *Complexos de Ga(III) e Re(V) com Ligandos Assimétricos (N,N',O) Derivados do Pirazolo: Síntese, Caracterização e Avaliação Biológica*, Faculdade de Ciências da Universidade de Lisboa, 2008. Supervisor: A. Paulo.

S. Cunha, *Avaliação Biológica de Complexos Catiônicos de ^{99m}Tc(I) para Detecção Tumoral*, Faculdade de Ciências da Universidade de Lisboa, 2008. Supervisor: Lurdes Gano.

M. S. Balbina, *Complexos de radiolantânídeos com ligandos macrocíclicos para terapia paliativa de metástases ósseas*, Faculdade de Ciências da Universidade de Lisboa, 2008. Supervisors: M. P. C. Campello, A. Kling.

Maurício S. Morais, *Compostos de ^{99m}Tc(I) contendo conjugados dextrano-manose*, Faculdade de Ciências da Universidade de Lisboa, 2008. Supervisor: J.D.G. Correia.

Flávio A. S. Figueira, *Novos complexos organometálicos de Re(I)/^{99m}Tc(I) contendo derivados da L-Arginina: síntese, caracterização e avaliação da actividade enzimática*, Faculdade de Ciências da Universidade de Lisboa, 2008. Supervisor: J.D.G. Correia.