

Curriculum Vitae

João Domingos Galamba Correia
Associate Researcher
(Investigador Principal)

Departamento de Engenharia e Ciências Nucleares and Centro de
Ciências e Tecnologias Nucleares, Instituto Superior Técnico,
Universidade de Lisboa, Portugal

Campus Tecnológico e Nuclear
Estrada Nacional 10 (km 139,7)
2695-066 Bobadela LRS, Portugal

29 November, 2019

Curriculum Vitae

Name: João Domingos Galamba Correia
Birthdate: October 14, 1967
Place: Porto-Amélia, Moçambique
Nationality: Portuguese
Address: Departamento de Engenharia e Ciências Nucleares Centro de Ciências (DECN) e Tecnologias Nucleares (C²TN)
Instituto Superior Técnico (IST), Universidade de Lisboa,
Campus Tecnológico e Nuclear
Estrada Nacional 10 (km 139,7),
2695-066 Bobadela LRS
Portugal
Phone: +351 21 994 62 33
e-mail: jgalamba@ctn.tecnico.ulisboa.pt

ORCID: <http://orcid.org/0000-0002-7847-4906>

Scopus Author ID: 7202364104

ResearcherID: J-7036-2013

CiênciaVitae: <https://www.cienciavitae.pt/portal/EC11-F3E9-78A2>

H-index: 26

Citations: 1 820 (without self-citations: 1 557)

- Since March 2006** *Associate Researcher (Investigador Principal)* - C²TN/IST, Universidade de Lisboa (*former* Instituto Tecnológico e Nuclear - ITN, Unidade de Ciências Químicas e Radiofarmacêuticas).
- Nov. 2000/feb. 2006** *Invited Assistant Researcher (Investigador Auxiliar Convidado)* ITN – Departamento de Química, Sacavém, Portugal.
- 1998/2000** *Postdoctoral fellow* (FCT/PRAXIS fellowship), ITN - Departamento de Química, Sacavém, Portugal.
- 1993/1996** *PhD in Inorganic Chemistry* at the Inorganic Chemistry Institute of the Technical University of Munich, Munich, Germany, under the Supervision of Prof. Dr. Drs. h.c. W. A. Herrmann. PhD Thesis: “*Molecular Rhenium Oxides as Oxidation Catalysts*”.
- 1985 / 1991** *Graduation in Pharmaceutical Sciences* – Faculdade de Farmácia, Universidade de Lisboa, Portugal.

Current Research Interests

- Medicinal chemistry
- Radiopharmaceutical chemistry
- Design of target specific tools for cancer theranostics
- Chemical biology and peptide Science
- Antibody fragments
- Computational chemistry tools for (radioactive) drug development

Training and professorships

Sept./Nov. 2017 Visiting Professor at the Technical University of Munich - TUM, Faculty of Chemistry and Catalysis Research Center, Molecular Catalysis, under the frame of an *August-Wilhelm Scheer Visiting Professorship 2017* - TUM, Munich, Germany.

April 2016 Workshop on *Immuno-imaging and molecular therapy*. April 25-29. Department BEFY - Lab ICMI, Vrije Universiteit Brussel (VUB), Brussels, Belgium.

November 2013 Training school on *Chemical probes in chemical proteomics and biosynthesis studies*, organized within the framework of COST Action CM 1004 – Synthetic Probes for Chemical proteomics & Elucidation of Biosynthetic Pathways, Universität Duisburg-Essen, Campus Essen, Germany.

December 2013 Visiting professor at the Group of Prof. K. T. Al-Jamal, Institute of Pharmaceutical Science, King's College London, under the framework of a Short-Term Scientific Mission (STSM). COST Action TD1004 Theragnostics Imaging and Therapy: An Action to Develop Novel Nanosized Systems for Imaging-Guided Drug Delivery.

2003 Training at the Radiological Chemistry Department, Basel University Hospital, Basel, Switzerland, in the group of Prof. H. Maecke under the framework of a STSM. COST ACTION B12. Radiotracers for in vivo assessment of biological functions. Working Group 5: "TECHNETIUM CHELATES".

September 2001 Attendance to the 4th Southern European School of the European Physical Society on Physics in Medicine, University of Algarve.

- 2000 and 2001** Training at the Institute of Inorganic Chemistry, University of Zurich, Zurich, Switzerland, in the group of Prof. R. Alberto under the framework of a STSM. COST ACTION B12. Radiotracers for in vivo assessment of biological functions. Working Group 5: "TECHNETIUM CHELATES".
- 1993 / 1996** DAAD fellowship at the Inorganic Chemistry Institute of the Technical University of Munich, Munich, Germany.
- 1991 / 1993** JNICT fellowship at the Organic Chemistry group of the Instituto de Tecnologia Química e Biológica, Oeiras, Portugal.
- 1990 / 1991** Undergraduate Trainee at the Pfizer Laboratories, Coima, Portugal.
- 1985 / 1990** INIC undergraduate fellowship at the Centro de Estudos de Ciências Farmacêuticas, Faculdade de Farmácia, Universidade de Lisboa, Portugal.

Teaching activities

- Since 2013** Invited Lecturer at the Faculdade de Medicina da Universidade de Lisboa, Master Course in Oncobiology, *Radiopharmaceutical Science and Cancer Therapy - Drug Discovery and Development in Oncology*.
- Since 2014** Invited Lecturer at the Perceptorship Program in Bone metastases and bone-targeting agents: Research with Radionuclides. Hospital de Santa Maria and IMM, Oncology Division and Radiology Division.
- 2006 - 2016** Lecturer (Radiopharmacy) at the Master Course Química Farmacêutica e Terapêutica, Faculdade de Farmácia, Universidade de Lisboa, Portugal.
- May 2014** Organizer and Lecturer at the COST Training School: *Peptides for Targeted Drug Delivery - Hands-on*, within the framework of COST Action CM 1105: Functional metal complexes that bind to biomolecules, C²TN, Campus Tecnológico e Nuclear, Instituto Superior Técnico, Universidade de Lisboa.
- 2012 - 2014** Invited Lecturer at the Groningen Research Institute of Pharmacy, University of Groningen, the Netherlands. Pharmaceutical

Inorganic Chemistry course, 1st year Master in Pharmacy, *Radioactive Metal-Based Drugs for Imaging and Therapy*.

2005 - 2011 Lecturer (Radiochemistry and Medicinal Inorganic Chemistry) at the Master Course Química Inorgânica Biomédica: Aplicações em Diagnóstico e Terapia, organized by ITN and Faculdade de Ciências, Universidade de Lisboa, Portugal.

Other Activities

Since 1999 Pharmaceutical Assessor (Radiopharmaceuticals, Quality) at the National Authority of Medicines and Health Products – INFARMED, I.P. Member of the Comissão de Avaliação de Medicamentos (CAM) since 2010 (*Despacho 11043/2010, de 5 de Julho* and *Despacho 12352/2013, de 27 de Setembro*).

Since 2016 Quality Assessor at the European Medicines Agency (EMA).

Scientific Supervision

Post-doctoral fellows

- *Structural and Functional Studies on Nitric Oxide Synthase Complexed to ^{99m}Tc/Re Compounds*. Dr. Márcia Alexandra da Silva Correia (FCT Grant: SFRH/BPD/64917/2009). 2010 - 2016.
- Target-specific delivery of radioactivity to cancer cells by virus-like particles: a computational chemistry and bioengineering approach. Dr. Rita Paiva Melo (FCT grant: FRH/BPD/97650/2013). Since 2014.
- *Biological role of clinically relevant collagen type I fragments in bone metastatic disease*. Dr. Irina Duarte Alho. Since 2015 - 2017.

Graduate Students

MSc. Theses

- Mafalda Inês Apolinário Pereira, *Design of Peptides to Interfere with the RANK-TRAF6 Pathway: an Integrated Approach*, Mestrado em Engenharia Química e Bioquímica, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 2018.

- Rúben Diogo Marques da Silva, *Study of the impact of metalophilic hydrogelators on polyglutamine aggregation*, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 2016.
- Bárbara Franco Andrade Góis, *The effect of bone collagen fragments on breast and prostate cancer cells*, Instituto Superior Técnico/Faculdade de Medicina da Universidade de Lisboa, 2016.
- Elisa Vaz Morgado de Palma, *Complexos de Re e ^{99m}Tc contendo antagonistas dos receptores serotoninérgicos 5-HT_{1A} estabilizados por fosfinas heterofuncionalizadas: química, radioquímica e avaliação biológica*, Faculdade de Ciências da Universidade de Lisboa, 2007.
- Bruno Luis Jesus Pinto de Oliveira, *Análogos da L-Arginina contendo a unidade fac- [^{99m}Tc(CO)₃]⁺ para Detecção in vivo do Óxido Nítrico Sintase: Química, Radioquímica e Avaliação Biológica*, Faculdade de Ciências da Universidade de Lisboa, 2007.
- Flávio Alberto da Silva Figueira, *Novos derivados da L-Arginina com a unidade fac- [^{99m}Tc(CO)₃]⁺ para Detecção in vivo do Óxido Nítrico Sintase*, Faculdade de Ciências da Universidade de Lisboa, 2008.
- Maurício da Silva Morais, *Radiolabeling of functionalized dextran for detection of sentinel node*, Faculdade de Ciências da Universidade de Lisboa, 2008.

PhD Theses

- Elisa Vaz Morgado de Palma, *Complexos Organometálicos de Re e Tc com Propriedades Osteotrópicas para Imagiologia e/ou Terapia*, Faculdade de Ciências da Universidade de Lisboa, 2011.
- Bruno Luís Jesus Pinto de Oliveira, *Re and ^{99m}Tc Organometallic Complexes for Targeting Nitric Oxide Synthase*, Faculdade de Ciências da Universidade de Lisboa, 2012.
- Maurício da Silva Morais, *Target-Specific Detection of Melanoma and Sentinel Lymph Node with ^{99m}Tc(CO)₃-containing probes*, Faculdade de Ciências da Universidade de Lisboa, 2013.

- João Miguel Franco Machado, *Targeting metastatic breast cancer with innovative ruthenium-peptide conjugates*, FCT grantee (SFRH/BD/135915/2018), 2018 – 2022.

Undergraduate students

- Mariana Antunes, *Síntese de polipéptidos baseados em glutamina e estudo da sua associação em fase aquosa*, Bachelor thesis, Chemistry, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, 2016.
- Pedro Miguel Dias, *Fragmentos de colagénio do tipo I, ICTP e CTX, como mediadores celulares em cancro da mama*, Laboratory Rotation - Biochemistry, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, 2013.
- Inês Farinha Antunes, *Preparação de Radiofármacos Específicos Potencialmente Úteis em Diagnóstico e/ou Terapia: Síntese e Caracterização de Novos Ligandos Orgânicos do Tipo PNO e PN₂ para Estabilização de Complexos de Rénio e Tecnécio*, Final Diploma work, Degree "in Química Tecnológica", Faculdade de Ciências da Universidade de Lisboa, 2002.
- Gisela Gersteberger, *Addukte von methyltrioxorhenium mit N-oxidierten Stickstoffbasen als Katalysatoren in der Olefinepoxidation*, Diplomarbeit, Technische Universität München, Munich, Germany, 1995.
- Martina Prinz, *Beiträge zu Untersuchungen der Katalytischen Aktivität von Rheniumverbindungen bei Diels-Alder-Reaktionen*, Laboratory Rotation, Technische Universität München, Munich, Germany, 1994.

Visiting students and scientists

- Sandra Deiser, Faculty of Chemistry, Department of Chemistry, Technical University of Munich, Munich, Germany. Internship (6 ECTs). 9 September – 4 October 2019. Master student, Biochemistry.
- Bruno Dominelli, Faculty of Chemistry and Catalysis Research Center, Molecular Catalysis, Technische Universität München, Munich, Germany. ERASMUS internship, 26 August – 4 October 2019. PhD Student, Chemistry.

- Benjamin Woods, Medicinal and Bioinorganic Chemistry Group, Cardiff University, Cardiff, United Kingdom. ERASMUS internship, 1 May – 30 June 2018. PhD Student, Chemistry.

- Dr. Christian Kowol, Inorganic Chemistry Institute, University of Vienna, Vienna, Austria. Instituto de Química Inorgânica, Universidade de Viena, Viena, Áustria. Short Term Scientific Mission under the framework of COST Action CM 1105, Functional Metal Complexes that Bind to Biomolecules: *Novel peptide-targeted platinum(IV) complexes*". 01 February – 30 April 2016. Visiting scientist.

- Eva M. Hahn, Zentralinstitut für Katalyseforschung, Technische Universität München, Munich, Germany. Short Term Scientific Mission under the framework of COST Action CM 1105, Functional Metal Complexes that Bind to Biomolecules: *Novel RGD Derivatives for Metal Complexation*. 10 February – 30 April 30, 2015.

- Zsolt Bihari, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary. Short Term Scientific Mission under the framework of COST Action CM 1105, Functional Metal Complexes that Bind to Biomolecules: *Synthesis, Characterization and Biological Evaluation of Radiometallated (η^5 -Cp)Ru(η^6 -Tyr) Peptides with HAV motif*. 14 February – 14 March, 2015.

- Liam Connah, MR Neuroimaging Agents research group, Max Planck Institute for Biological Cybernetics, Tuebingen, Germany. Short Term Scientific Mission under the framework of COST Action TD1004, Theragnostics Imaging and Therapy, An Action to Develop Novel Nanosized Systems for Imaging-Guided Drug Delivery: *Synthesis of bismacrocyclic smart contrast agents (SCAs) using solid phase techniques*. 19 August – 16 September, 2015.

Scientific Publications

Books and chapters of international distribution

- M. Morais, J. D. G. Correia, I. Santos, M. Pelecanou, I. Pirmettis, M. Papadopoulos, (2015). A new class of $^{99m}\text{Tc(I)}$ agents for SLND: Chemical design and synthesis. In: *Radiopharmaceuticals For Sentinel Lymph Node Detection: Status and Trends*, IAEA Radioisotopes and Radiopharmaceuticals series, no. 6, STI/PUB/1674, ISSN: 2077-6462, ISBN: 978-92-0-109714-9. Chapter 5, pp. 95-107.

- M. Morais, J.D.G. Correia, I. Santos, M. Pelecanou, I. Pirmettis, M. Papadopoulos, (2015). A new class of $^{99m}\text{Tc}(\text{I})$ agentes for SLND: Labelling and quality control. In: *Radiopharmaceuticals For Sentinel Lymph Node Detection: Status and Trends*, IAEA Radioisotopes and Radiopharmaceuticals series, no. 6, STI/PUB/1674, ISSN: 2077---6462, ISBN: 978-92---0-109714-9. Chapter 6, pp. 109-114.

Scientific journals indexed in the "Web of Science"

- 82** – *Antiproliferative and TrxR Inhibition Studies of Syn/Anti-Isomers of Dinuclear Au(I) NHC Complexes*, B. Dominelli, C. H. G. Jakob, J. Oberkofler, P. J. Fischer, E.-M. Esslinger, R. M. Reich, F. Marques, J. D. G. Correia, Fritz E. Kühn, *Inorg. Chem.* **2019**, Submitted.
- 81** – *$_D\text{PepH3}$, an improved peptide shuttle for receptor-independent transport across the blood-brain barrier*, M. C. Cavaco, J. V. Garcia, R. D. M. Silva, J. D. G. Correia, D. Andreu, M. A. R. B. Castanho, V. Neves, *Curr. Pharm. Design* **2019**, Submitted.
- 80** – *Dynamical rearrangement of human epidermal growth factor receptor 2 upon antibody binding: Effects on the dimerization*, P. R. Magalhães, M. Machuqueiro, J. G. Almeida, A. Melo, M. N. D. S. Cordeiro, S. Cabo Verde, Z. H. Gumus, I. S. Moreira, J. D. G. Correia, R. Melo, *Biomolecules* **2019**, 9(11), 706. DOI: 10.3390/biom9110706.
- 79** – *Dinuclear Zwitterionic Silver(I) and Gold(I) Complexes Bearing 2,2-Acetate-Bridged Bisimidazolylidene Ligands*, B. Dominelli, G. M. Roberts, C. Jandl, P. J. Fischer, R. M. Reich, A. Pöthig, J. D. G. Correia, F. E. Kühn, *Dalton Trans.* **2019**, 48, 14036-14043. DOI: 10.1039/C9DT03035B.
- 78** – *Solid-Phase-Supported Approach for the Preparation of Bioresponsive and Multifunctional MRI Probes*, L. Connah, R. Joshi, S. Vibhute, G. Gambino, J. D. G. Correia, G. Angelovski, *Org. Lett.* **2019**, 21(14), 5378-5382. DOI: 10.1021/acs.orglett.9b01341.
- 77** – *Ferrocene derivatives as anti-infective agents*, B. S. Ludwig, J. D. G. Correia, F. E. Kühn, *Coordin. Chem. Rev.* **2019**, 396, 22-48. DOI: 10.1016/j.ccr.2019.06.004.
- 76** – *Biomedical applications of radioiodinated peptides*, M. C. Oliveira, J. D. G. Correia, *Eur. J. Med. Chem.* **2019**, 179, 56-77. DOI:10.1016/j.ejmech.2019.06.014.

- 75** – *Novel structures of platinum complexes bearing N-bisphosphonates and study of their biological properties*, A. Alvarez-Valdes, A. I. Matesanz, J. Perles, C. Fernandes, J. D. G. Correia, F. Mendes, A. G. Quiroga, *J. Inorg. Biochem.* **2019**, *191*, 112-118. DOI: 10.1016/j.jinorgbio.2018.11.010.
- 74** – *Less exploited GPCRs in precision medicine: Targets for molecular imaging and theranostics*, J. F. Machado, R. D. Silva, R. Melo, J. D. G. Correia, *Molecules* **2019**, *24*(1), E49. DOI: 10.3390/molecules24010049.
- 73** - *Establishment of a bioluminescent canine B-cell lymphoma xenograft model for monitoring tumor progression and treatment response in preclinical studies*, J. N. R. Dias, S. I. Aguiar, D. M. Pereira, A. S. André, L. Gano, J. D. G. Correia, B. Carrapiço, B. Rütgen, R. Malhó, C. Peleteiro, J. Gonçalves, C. M. P. Rodrigues, S. Gil, L. Tavares, F. Aires-da-Silva, *PLOS ONE* **2018**, *13*(12), e0208147. DOI: 10.1371/journal.pone.0208147.
- 72** - *An overview of antiretroviral agents for treating HIV infection in paediatric population*, R. Melo, A. Lemos, A. J. Preto, B. Bueschbell, P. Matos-Filipe, C. Barreto, J. G. Almeida, R. D. M. Silva, J. D. G. Correia, I. S. Moreira, *Curr. Med. Chem.* **2018**, *25*:1. DOI:10.2174/0929867325666180904123549.
- 71** - *Computational approaches in antibody-drug conjugate optimization for targeted cancer therapy*, R. Melo, A. Lemos, A. J. Preto, J. G. Almeida, J. D. G. Correia, O. Sensoy, I. S. Moreira, *Curr. Top. Med. Chem.* **2018**, *18*, 1091 - 1109. DOI:10.2174/1568026618666180731165222.
- 70** - *Targeting of the cystic fibrosis transmembrane conductance regulator (CFTR) protein with a technetium-99m imaging probe*, V. F. C. Ferreira, B. L. Oliveira, J. D. Santos, J. D. G. Correia, C. M. Farinha, F. Mendes, *ChemMedChem* **2018**, *13*, 1469-1478. DOI: 10.1002/cmdc.201800187.
- 69** – *The histone deacetylase inhibitor Panobinostat is a potent antitumor agent in canine diffuse large B-cell lymphoma*, J. N. R. Dias, S. I. Aguiar, D. M. Pereira, A. S. André, L. Gano, J. D. G. Correia, B. Carrapiço, B. Rütgen, R. Malhó, C. Peleteiro, J. Gonçalves, C. M. P. Rodrigues, S. Gil, L. Tavares, F. Aires-da-Silva, *Oncotarget* **2018**, *9*, 28586-28598. DOI: 10.18632/oncotarget.25580.

- 68** - *Medicinal Applications of Gold(I/III)-Based Complexes Bearing N-Heterocyclic Carbene and Phosphine Ligands*, B. Dominelli, J. D. G. Correia, F. E. Kühn, *J. Organomet. Chem.* **2018**, 866, 153-164. DOI: 10.1016/j.jorganchem.2018.04.023.
- 67** - *Technetium-99m complexes of L-arginine derivatives for targeting amino acid transporters*, M. Morais, V. F. C. Ferreira, F. Figueira, F. Mendes, P. Raposinho, I. Santos, B. L. Oliveira, J. D. G. Correia, *Dalton Trans.* **2017**, 46, 14537-14547. DOI: 10.1039/C7DT01146F.
- 66** – *A Multifunctional Radiotheranostic Agent for Dual Targeting of Breast Cancer Cells*, F. Vultos, C. Fernandes, F. Mendes, F. Marques, J. D. G. Correia, I. Santos, L. Gano, *ChemMedChem* **2017**, 12, 1103-1107. DOI: 10.1002/cmdc.201700287.
- 65** - *NMR insights into the structure-function relationships in the complex of melanocortin analogues with the receptor MCR1*, M. Morais, H. Zamora-Carreras, P. D. Raposinho, M. C. Oliveira, D. Pantoja-Uceda, J. D. G. Correia, M. A. Jiménez, *Molecules* **2017**, 22. DOI:10.3390/molecules22071189.
- 64** - *Albumin-binding domain from Streptococcus zooepidemicus protein Zag as a novel strategy to improve the half-life of therapeutic proteins*, C. Cantante, S. Lourenço, M. Morais, J. Leandro, L. Gano, N. Silva, P. Leandro, M. Serrano, A. O. Henriques, C. Fontes, J. D. G. Correia, F. Aires da Silva, J. Gonçalves, *J. Biotechnol.* **2017**, 253, 23-33. DOI: 10.1016/j.jbiotec.2017.05.017.
- 63** - *Novel peptides derived from dengue virus capsid protein translocate reversibly the blood–brain barrier through a receptor-free mechanism*, V. Neves, F. Aires-da-Silva, M. Morais, L. Gano, E. Ribeiro, A. Pinto, S. Aguiar, D. Gaspar, C. Fernandes, J. D. G. Correia, M. A. R. B. Castanho, *ACS Chem. Biol.* **2017**, 12, 1257–1268. DOI: 10.1021/acscchembio.7b00087. Impact Factor: 5.090.
- 62** - *Non-conventional trans-Platinum Complexes Functionalized with RDG Peptides: Chemical and Cytotoxicity Studies*, M. A. Medrano, M. Morais, V. F. C. Ferreira, J. D. G. Correia, A. Paulo, I. Santos, C. Navarro-Ranninger, A. A. Valdes, A. Casini, F. Mendes, A. G. Quiroga, *Eur. J. Inorg. Chem.* **2017**, 12, 1835–1840, DOI: 10.1002/ejic.201700072. Cited: 0; Impact Factor: 2.686.

- 61** - *Functionalization of Ruthenium(II) Terpyridine Complexes with Cyclic RGD Peptides to Target Integrin receptors in Cancer Cells*, E. M. Hahn, N. Estrada, J. Han, V. F. C. Ferreira, T. G. Kapp, J. D. G. Correia, A. Casini, F. E. Kühn, *Eur. J. Inorg. Chem.* **2017**, 12, 1667–1672, DOI: 10.1002/ejic.201601094. Cited: 0; Impact Factor: 2.686.
- 60** - *Radiolabeled Block Copolymer Micelles for Image-guided Drug Delivery*, E. Ribeiro, I. Alho, F. Marques, L. Gano, I. Correia, J. D. G. Correia, S. Casimiro, L. Costa, C. Fernandes, I. Santos, *Int. J. Pharm.* **2016**, 515 (1-2), 692-701. DOI: 10.1016/j.ijpharm.2016.11.004. Cited: 0; Impact Factor: 3.994.
- 59** - *A Machine Learning Approach for Hot-Spot Detection at Protein-Protein Interfaces*, R. Melo, R. Fieldhouse, A. Melo, J. D. G. Correia, M. N. D. S. Cordeiro, Z. H. Gumus, J. Costa, A. M. J. J. Bonvin, I. S. Moreira, *Int. J. Mol. Sci.* **2016**, 17. DOI:10.3390/ijms17081215. Cited: 0; Impact Factor: 3.257.
- 58** – *Biological Assessment of Radiolabeled Kyotorphin Derivatives*, M. C. Oliveira, L. Gano, I. Santos, J. D. G. Correia, M. A. Castanho, I. D. Serrano, S. S. Santos, M. Ribeiro, J. Perazzo, I. Tavares, M. Heras, E. Bardaji, *MedChemComm* **2016**, 7, 906-913. DOI: 10.1039/C6MD00028B. Cited: 0; Impact Factor: 2.495.
- 57** - *Synthesis, Characterization and Biological Evaluation of a ⁶⁷Ga-Labeled (η^6 -Tyr)Ru(η^5 -Cp) Complex with the HAV motif*, Z. Bihari, F. Vultos, C. Fernandes, L. Gano, I. Santos, J. D. G. Correia, P. Buglyó, *J. Inorg. Biochem.* **2016**, 160, 189-197. DOI:10.1016/j.jinorgbio.2016.02.011. Cited: 0; Impact Factor: 3.444.
- 56** - *Novel ¹⁸⁸Re Multi-Functional Bone-Seeking Compounds: Synthesis, Biological and Radiotoxic Effects in Metastatic Breast Cancer Cells*, C. Fernandes, S. Monteiro, A. Belchior, F. Marques, L. Gano, J. D. G. Correia, I. Santos, *Nucl. Med. Biol.* **2016**, 43, 150-157. DOI:10.1016/j.nucmedbio.2015.11.004. Cited: 0; Impact Factor: 2.412.
- 55** - *Re(I) and Tc(I) Complexes for Targeting Nitric Oxide Synthase: Influence of the Chelator in the Affinity for the Enzyme*, B. L. Oliveira, M. Morais, F. Mendes, I. S. Moreira, C. Cordeiro, P. A. Fernandes, M. J. Ramos, R. Alberto, I. Santos, J. D. G. Correia, *Chem. Biol. Drug Des.* **2015**, 86, 1072-1086. DOI:10.1111/cbdd.12575. Cited: 1; Impact Factor: 2.485.

- 54** - *Radiolabeled Mannosylated Dextran Derivatives Bearing an NIR-Fluorophore for Sentinel Lymph Node Imaging*, M. Morais, M. P. C. Campello, C. Xavier, J. Heemskerk, J. D. G. Correia, T. Lahoutte, V. Caveliers, S. Hernot, I. Santos, *Bioconjugate Chem.* **2014**, 25, 1963-1970. DOI: 10.1021/bc500336a. Cited: 3; Impact Factor: 4.513.
- 53** - *Comparative Biological Evaluation of Two [^{99m}Tc(CO)₃]-Dextran Pyrazolyl Mannose Conjugates Developed for Use in Sentinel Lymph Node Detection*, S. Subramanian, U. Pandey, M. Morais, J. D. G. Correia, I. Santos, G. Samuel, *Q. J. Nucl. Med. Mol. Im.* **2014**, 58, 216–223. Cited: 2; Impact Factor: 2.033.
- 52** - *A ^{99m}Tc(CO)₃-Labeled Benzylguanidine with Persistent Heart Uptake*, B. L. Oliveira, M. Morais, L. Gano, I. Santos, J. D. G. Correia, *J. Labelled Compd. Rad.* **2014**, 57, 358-364. DOI: 10.1002/jlcr.3188. Cited: 0; Impact Factor: 1.273.
- 51** - *Biodistribution of a ⁶⁷Ga-Labeled anti-TNF VHH Single-Domain Antibody Containing a Bacterial Albumin-Binding Domain (Zag)*, M. Morais, C. Cantante, L. Gano, I. Santos, S. Lourenco, C. Santos, C. Fontes, F. Aires da Silva, J. Gonçalves, J. D. G. Correia, *Nucl. Med. Biol.* **2014**, 41 Suppl., e44-e48. DOI:10.1016/j.nucmedbio.2014.01.009. Cited: 3; Impact Factor: 2.412.
- 50** - *Biological Assessment of Novel Bisphosphonate-Containing ^{99m}Tc/Re-Organometallic Complexes*, C. Fernandes, S. Monteiro, P. Mendes, L. Gano, F. Marques, S. Casimiro, L. Costa, J. D. G. Correia, I. Santos, *J. Organomet. Chem.* **2014**, 760, 197-204. DOI: 10.1016/j.jorganchem.2013.10.038. Cited: 1; Impact Factor: 2.173.
- 49** - *Theoretical Studies on the Binding of Rhenium(I) Complexes to Inducible Nitric Oxide Synthase*, B. L Oliveira, I. S. Moreira, P. A. Fernandes, M. J. Ramos, I. Santos, J. D. G. Correia, *Mol. Graphics Modell.* **2013**, 45, 13-25. DOI: 10.1016/j.jmgm.2013.07.007. Cited: 6; Impact Factor: 1.722.
- 48** - *Target-Specific Tc(CO)₃-Complexes for in vivo Imaging*, M. Morais, A. Paulo, L. Gano, I. Santos, J. D. G. Correia, *J. Organomet. Chem.* **2013**, 744, 125-139. DOI:10.1016/j.jorganchem.2013.05.050. Cited: 7; Impact Factor: 2.173.

- 47** - *Emerging Protein Targets for Metal-Based Pharmaceutical Agents: An Update*, A. de Almeida, B. L. Oliveira, J. D. G. Correia, G. Soveral, A. Casini, *Coord. Chem. Rev.* **2013**, 257(19-20), 2689-2704. DOI:10.1016/j.ccr.2013.01.031. Cited: 28; Impact Factor: 12.239.
- 46** – *Insights Into the Structural Determinants for Selective Inhibition of Nitric Oxide Synthase Isoforms*, B. L. Oliveira, I. S. Moreira, P. A. Fernandes, M. J. Ramos, I. Santos, J. D. G. Correia, *J. Mol. Model.* **2013**, 19(4), 1537-1551. DOI:10.1007/s00894-012-1677-8. Cited: 6; Impact Factor: 1.736.
- 45** - *Influence of the Bifunctional Chelator on the Pharmacokinetic Properties of ^{99m}Tc(CO)₃-Labeled Cyclic Alpha-Melanocyte Stimulating Hormone Analog*, M. Mauricio, B. L. Oliveira, J. D. G. Correia, M. C. Oliveira, M. A. Jimenez, I. Santos, P. D. Raposinho, *J. Med. Chem.* **2013**, 56(5), 1961-1973. DOI:10.1021/jm301647t. Cited: 9; Impact Factor: 5.447.
- 44** - *NMR Structural Analysis of MC1R-Targeted Rhenium(I) Metallopeptides and Biological Evaluation of ^{99m}Tc(I) Congeners*, M. Morais, P. D. Raposinho, M. C. Oliveira, D. Pantoja-Uceda, M. A. Jimenez, I. Santos, J. D. G. Correia, *Organometallics* **2012**, 31(16), 5929-5939. DOI:10.1021/om300502n. Cited: 4; Impact Factor: 4.126.
- 43** - *New ^{99m}Tc(CO)₃-Mannosylated Dextran Bearing S-Derivatized Cysteine Chelator for Sentinel Lymph Node Detection*, I. Pirmettis, Y. Arano, T. Tsotakos, K. Okada, A. Yamaguchi, T. Uehara, M. Morais, J. D. G. Correia, I. Santos, M. Martins, S. Pereira, C. Triantis, P. Kyprianidou, M. Pelecanou, M. Papadopoulos, *Mol. Pharmaceutics* **2012**, 9(6), 1681-1692. DOI:10.1021/mp300015s. Cited: 7; Impact Factor: 4.384.
- 42** - *Evaluation of Novel ^{99m}Tc-(I)-Labeled Homobivalent Alpha-Melanocyte-Stimulating Hormone Analogs for Melanocortin-1 Receptor Targeting*, M. Morais, P. D. Raposinho, M. C. Oliveira, J. D. G. Correia, I. Santos, *J. Biol. Inorg. Chem.* **2012**, 17(4), 491-505. DOI:10.1007/s00775-011-0871-y. Cited: 8; Impact Factor: 2.538.
- 41** - *Bisphosphonates as Radionuclide Carriers for Imaging or Systemic Therapy*, E. Palma, J. D. G. Correia, I. Santos, *Mol. Biosyst.* **2011**, 7(11), 2950-2966. DOI: 10.1039/C1MB05242J. Cited: 19; Impact Factor: 3.210.

- 40** - *Radiometallated Peptides for Molecular Imaging and Targeted Therapy*, J. D. G. Correia, A. Paulo, P. D. Raposinho, I. Santos, *Dalton Trans.* **2011**, 40(23), 6144-6167. DOI: 10.1039/C0DT01599G. Cited: 45; Impact Factor: 4.197.
- 39** - *^{99m}Tc(CO)₃-Labeled Pamidronate and Alendronate for Bone Imaging*, E. Palma, J. D. G. Correia, B. L. Oliveira, L. Gano, I. C. Santos, I. Santos, *Dalton Trans.* **2011**, 40(12), 2787-2796. DOI: 10.1039/c0dt01396j. Cited: 14; Impact Factor: 4.197.
- 38** - *Mannosylated Dextran Derivatives Labeled with fac-[M(CO)₃]⁺ (M = ^{99m}Tc, Re) for Specific Targeting of Sentinel Lymph Node*, M. Morais, S. Subramanian, U. Pandey, G. Samuel, M. Venkatesh, M. Martins, S. Pereira, J. D. G. Correia, I. Santos, *Mol. Pharmaceutics* **2011**, 8(2), 609-620. DOI: 10.1021/mp100425p. Cited: 17; Impact Factor: 4.384.
- 37** - *Targeting Nitric Oxide Synthase with ^{99m}Tc/Re-Tricarbonyl Complexes Containing Pendant Guanidino or Isothiourea Moieties*, B. L. Oliveira, P. D. Raposinho, F. Mendes, I. C. Santos, I. Santos, A. Ferreira, C. Cordeiro, A. P. Freire, J. D.G. Correia, *J. Organomet. Chem.* **2011**, 696(5), 1057-1065. DOI:10.1016/j.jorganchem.2010.09.019. Cited: 12; Impact Factor: 2.173.
- 36** - *Re and Tc Tricarbonyl Complexes: From the Suppression of NO Biosynthesis in Macrophages to in vivo Targeting of Inducible Nitric Oxide Synthase*, B. O. Oliveira, P. D. Raposinho, F. Mendes, F. Figueira, I. Santos, A. Ferreira, C. Cordeiro, A. P. Freire, J. D. G. Correia, *Bioconjugate Chem.* **2010**, 21(12), 2168-2172. DOI: 10.1021/bc100291e. Cited: 10; Impact Factor: 4.513.
- 35** - *MC1 Receptor-Targeting with Radiolabeled Cyclic Alpha-Melanocyte Stimulating Hormone Analogs for Melanoma Imaging*, P. D. Raposinho, J. D. G. Correia, M. C. Oliveira, I. Santos, *Biopolymers (Peptide Science)* **2010**, 94(6), 820-829. DOI: 10.1002/bip.21490. Cited: 12; Impact Factor: 2.385.
- 34** - *Syntheses of Bifunctional 2,3-Diamino Propionic Acid Based Chelators as Small and Strong Tripod Ligands for the Labelling of Biomolecules with ^{99m}Tc*, Y. Liu, B. L. Oliveira, J. D. G. Correia, I. C. Santos, I. Santos, B. Spingler, R. Alberto, *Org. Biomol. Chem.* **2010**, 8(12), 2829-2839. DOI: 10.1039/C002796K. Cited: 8; Impact Factor: 3.562.

- 33** - *Re and Tc Complexes with Pyrazolyl-Containing Chelators: From Coordination Chemistry to Target-Specific Delivery of Radioactivity*, J. D. G. Correia, A. Paulo, I. Santos, *Curr. Radiopharm.* **2009**, 2(4), 277-294. DOI: 10.2174/1874471010902040277.
- 32** - *Re and ^{99m}Tc Organometallic Complexes Containing Pendant L-Arginine Derivatives as Potencial Probes of Inducible Nitric Oxide Synthase*, B. L. Oliveira, J. D. G. Correia, P. D. Raposinho, I. Santos, A. Ferreira, C. Cordeiro, A. P. Freire, *Dalton Trans.* **2009**, 152-162. DOI: 10.1039/b805986a. Cited: 16; Impact Factor: 4.197.
- 31** - *Comparative Study of Chemical Approaches to the Solid-Phase Synthesis of a Tumor-Seeking α -MSH Analogue*, M. Valldosera, M. Mansò, C. Xavier, P. d. Raposinho, J. D. G. Correia, I. Santos, P. Gomes, *Int. J. Pept. Res. Ther.* **2008**, 14(3), 273-281. DOI 10.1007/s10989-008-9143-2. Cited: 6; Impact Factor: 0.905.
- 30** - *Melanoma Targeting with α -Melanocyte Stimulating Hormone Analogs Labeled with *fac*-[^{99m}Tc(CO)₃]⁺: Effect of Cyclization on Tumor-Seeking Properties*, P. D. Raposinho, C. Xavier, J. D. G. Correia, S. Falcão, P. Gomes, I. Santos, *J. Biol. Inorg. Chem.* **2008**, 13(3), 449-459. DOI 10.1007/s00775-007-0338-3. Cited: 36; Impact Factor: 2.538.
- 29** - *A ^{99m}Tc(CO)₃-labeled Pyrazolyl- α -Melanocyte-Stimulating Hormone Analog Conjugate for Melanoma Targeting*, P. D. Raposinho, J. D. G. Correia, S. Alves, M. F. Botelho, Ana C. Santos, I. Santos, *Nucl. Med. Biol.* **2008**, 35(1), 91-99. DOI:10.1016/j.nucmedbio.2007.08.001. Cited: 35; Impact Factor: 2.412.
- 28** - *A Pyrazolylamine-Phosphonate Monoester Chelator for the *fac*-[M(CO)₃]⁺ Core (M = Re, ^{99m}Tc): Synthesis, Coordination Properties and Biological Assessment*, E. Palma, B. L. Oliveira, F. Figueira, J. D. G. Correia, P. D. Raposinho, I. Santos, *J. Labelled Compd. Rad.* **2007**, 50(13), 1176-1184. DOI: 10.1002/jlcr.1415. Cited: 4; Impact Factor: 1.273.
- 27** - *A new Bisphosphonate-Containing ^{99m}Tc(I) Tricarbonyl Complex Potentially Useful as Bone-Seeking Agent: Synthesis and Biological Evaluation*, E. Palma, B. L. Oliveira, J. D. G. Correia, L. Gano, L. Maria, I. C. Santos, I. Santos, *J. Biol. Inorg.*

- Chem.* **2007**, 12(5), 667-679. DOI 10.1007/s00775-007-0215-0. Cited: 44; Impact Factor: 2.538.
- 26** - *In Vitro and In Vivo Evaluation of a Novel $^{99m}\text{Tc}(\text{CO})_3$ -Pyrazolyl Conjugate of cyclo-(Arg-Gly-Asp-D-Tyr-Lys)*, S. Alves, J. D. G. Correia, L. Gano, T. L. Rold, A. Prasanphanich, R. Haubner, M. Rupprich, R. Alberto, C. Decristoforo, I. Santos, C. J. Smith, *Bioconjugate Chem.* **2007**, 18(2), 530-537. DOI: 10.1021/bc060234t. Cited: 51; Impact Factor: 4.513.
- 25** - *Pyrazolyl Conjugates of Bombesin: A New Tridentate Ligand Framework for Stabilization of the $\text{fac-}[M(\text{CO})_3]^+$ Moiety*, S. Alves, J. D. G. Correia, I. Santos, B. Veerendra, G. L. Sieckman, T. J. Hoffman, T. Rold, L. Retzloff, J. McCrate, A. Prasanphanich, C. J. Smith, *Nucl. Med. Biol.* **2006**, 33(5) 625–634. DOI:10.1016/j.nucmedbio.2006.03.007. Cited: 37; Impact Factor: 2.412.
- 24** - *Dramatic Effect of the Tridentate Ligand on the Stability of the ^{99m}Tc “3+1” Oxocomplexes Bearing Arylpiperazine Derivatives*, C. Fernandes, J. D. G. Correia, L. Gano, I. Santos, S. Seifert, R. Syhre, R. Bergmann, H. Spies, *Bioconjugate Chem.* **2005**, 16(3), 660-668. DOI: 10.1021/bc049718k. Cited: 20; Impact Factor: 4.513.
- 23** - *Pyrazolyl Derivatives as Bifunctional Chelators for Labeling Tumor-Seeking Peptides with the $\text{fac-}[M(\text{CO})_3]^+$ Moiety ($M = ^{99m}\text{Tc}$, Re): Synthesis, Characterization and Biological Behaviour*, S. Alves, A. Paulo, J. D. G. Correia, L. Gano, C. J. Smith, I. Santos, *Bioconjugate Chem.* **2005**, 16(2), 438-449. DOI: 10.1021/bc0497968. Cited: 58; Impact Factor: 4.513.
- 22** - *Rhenium and Technetium Complexes Anchored by Phosphines and Scorpionates for Radiopharmaceutical Applications*, I. Santos, A. Paulo, J. D. G. Correia, *Top. Curr. Chem.* **2005**, 252, 45-84 (review article). DOI 10.1007/b101224. Cited: 37; Impact Factor: 4.464.
- 21** - *A Short Ride on Scorpionates: From d- to f-elements*, A. Paulo, J. D. G. Correia, M. P. C. Campello, I. Santos, *Polyhedron* **2004**, 23 (2-3), 331-360 (review article). DOI:10.1016/j.poly.2003.11.022. Cited: 25; Impact Factor: 2.011.
- 20** - *Rhenium and Technetium Tricarbonyl Complexes Anchored by 5-HT_{1A} Receptor-Binding Ligands Containing P,O/N Donor Atom Sets*, E. Palma, J. D. G. Correia, Â.

- Domingos, I. Santos, R. Alberto, H. Spies, *J. Organomet. Chem.* **2004**, 689, 4811-4819. DOI:10.1016/j.jorganchem.2004.09.051. Cited: 14; Impact Factor: 2.173.
- 19** - *Rhenium(I)- and Technetium(I)Tricarbonyl Complexes Anchored by Bifunctional Pyrazole-Diamine and Pyrazole-Dithioether Chelators*, R. F. Vitor, S. Alves, J. D. G. Correia, A. Paulo, I. Santos, *J. Organomet. Chem.* **2004**, 689, 4764-4774. DOI:10.1016/j.jorganchem.2004.09.033. Cited: 35; Impact Factor: 2.173.
- 18** - *Synthesis and Structural Characterization of Novel Re(I) Tricarbonyl Complexes Anchored on a Phosphinoarylbenzylamine and a Phosphinoaryloxazoline Generated in situ*, T. Kniess, J. D. G. Correia, Â. Domingos, E. Palma, I. Santos, *Inorg. Chem.* **2003**, 42, 6130-6135. DOI: 10.1021/ic034372v. Cited: 10; Impact Factor: 4.762.
- 17** - *Coordination Capabilities of Pyrazolyl Containing Ligands Towards the fac-[Re(CO)₃]⁺ Moiety*, S. Alves, A. Paulo, J. D. G. Correia, Â. Domingos, I. Santos, *J. Chem. Soc., Dalton Trans.* **2002**, 4714-4719. DOI: 10.1039/B207164A. Cited: 42; Impact Factor: 4.197.
- 16** - *New Mixed-Ligand Re(V) Complexes with 2-Mercaptoethyl Sulphide and Functionalized Thioimidazolyl Ligands*, E. Palma, J. D. G. Correia, Â. Domingos, I. Santos, *Eur. J. Inorg. Chem.* **2002**, 2402-2405. DOI: 10.1002/1099-0682(200209)2002:9<2402::AID-EJIC2402>3.0.CO;2-0. Cited: 9; Impact Factor: 2.942.
- 15** - *Re Tricarbonyl Complexes with Ligands Containing P,N,N and P,N,O Donor Atom Sets: Synthesis and Structural Characterization*, J. D. G. Correia, Â. Domingos, I. Santos, R. Alberto, K. Ortner, *Inorg. Chem.* **2001**, 40, 5147-5151. DOI: 10.1021/ic010417l. Cited: 47; Impact Factor: 4.762.
- 14** - *Synthesis and Characterization of Mixed-Ligand Oxorhenium(V) Complexes with New [(PNO/S)(S)] Donor Atom Sets*, J. D. G. Correia, Â. Domingos, I. Santos, H. Spies, *J. Chem. Soc., Dalton Trans.* **2001**, 2245-2250. DOI: 10.1039/B101278l. Cited: 28; Impact Factor: 4.197.
- 13** - *Synthesis and Structural Analysis of Mono-Oxo Re(V) Complexes with Phosphino-Carboxylato Ligands*, J. D. G. Correia, Â. Domingos, I. Santos, C. Bolzati, F. Refosco, F. Tisato, *Inorg. Chim. Acta* **2001**, 315, 213-219. DOI:10.1016/S0020-1693(01)00374-7. Cited: 8; Impact Factor: 2.046.

- 12** - *Tc Oxocomplexes with the PNO/S and PNS/S Donor Atom Sets: Labelling of a 5HT_{1A} Receptor-Binding Ligand*, C. Fernandes, J. D. G. Correia, L. Gano, I. Santos, S. Seifert, R. Shyre, H. Spies, *J. Labelled Compd. Rad.* **2001**, *44* (Suppl. 1), S518 – S520. DOI: 10.1002/jlcr.25804401184. Cited: 0; Impact Factor: 1.273.
- 11** - *Heterofunctionalized Phosphines as Anchor Groups for Coupling Biomolecules to the fac-[M(CO)₃]⁺ (M = Re, Tc) Moiety*, J. D. G. Correia, I. Santos, R. Alberto, K. Ortner, H. Spies, A. Drews, *J. Labelled Compd. Rad.* **2001**, *44* (Suppl. 1), S507 – S509. DOI: 10.1002/jlcr.25804401180. Cited: 0; Impact Factor: 1.273.
- 10** - *Novel Six-co-ordinate Oxorhenium Complexes with Ligands Containing PN₂ and PNO Donor Atom Sets: Syntheses and Structural Characterization*, J. D. G. Correia, Â. Domingos, A. Paulo, I. Santos, *J. Chem. Soc., Dalton Trans.* **2000**, *14*, 2477-2482. DOI: 10.1039/B002798G. Cited: 29; Impact Factor: 4.197.
- 9** - *Neutral Trichlorooxorhenium(V) Complexes Containing New Heterofunctionalized Phosphine Ligands of the Type PN₂ and PNO*, J. D. G. Correia, Â. Domingos, I. Santos, *Eur. J. Inorg. Chem.* **2000**, *7*, 1523-1529. DOI: 10.1002/1099-0682(200007)2000:7<1523::AID-EJIC1523>3.0.CO;2-2. Cited: 24; Impact Factor: 2.942.
- 8** - *Rhenium Complexes with Poly(pyrazolyl)borates*, A. Paulo, J. D. G. Correia, I. Santos, *Trends Inorg. Chem.* **1998**, *5*, 57-87 (review article). Cited: 10.
- 7** - *Nitrogen-Donor Adducts of Organorhenium(VII) Oxides: Structural and Catalytic Aspects*, W. A. Herrmann, F. E. Kühn, M. R. Mattner, G. R. J. Artus, M. R. Geisberger, J. D. G. Correia, *J. Organomet. Chem.* **1997**, *538*, 203-209. DOI: 10.1016/S0022-328X(96)06919-7. Cited: 64; Impact Factor: 2.173.
- 6** - *Oxygen-Donor Adducts of Organorhenium(VII) Oxides: Syntheses, Structures and Catalytic Properties*, W. A. Herrmann, J. D. G. Correia, M. U. Rauch, G. R. J. Artus, F. E. Kühn, *J. Mol. Catal.* **1997**, *118*, 33-45. DOI: 10.1016/S1381-1169(96)00377-9. Cited: 41; Impact Factor: 3.615.
- 5** - *Hexamethylphosphoramide)methyl(oxo)bis(η²-peroxo)rhenium(VII), The First Example of an Anhydrous Rhenium Peroxo Complex: Crystal Structure and Catalytic*

- Properties*, W. A. Herrmann, J. D. G. Correia, G. R. J. Artus, R. W. Fischer, *J. Organomet. Chem.* **1996**, 520, 139-142. DOI: 10.1016/0022-328X(96)06272-9. Cited: 19; Impact Factor: 2.173.
- 4** - *The "Peroxo Perrhenic Acid" $H_4Re_2O_{13}$: An Oxygen-Rich Metalperoxide and Oxidation Catalyst*, W. A. Herrmann, J. D. G. Correia, F. E. Kühn, G. R. J. Artus, C. C. Romão, *Chem. Eur. J.* **1996**, 2, 168-173. DOI: 10.1002/chem.19960020208. Cited: 56; Impact Factor: 5.731.
- 3** - *Lewis-Base Adducts of Organorhenium(VII) Oxides: Structures and Dynamic Behavior in Solution*, W. A. Herrmann, F. E. Kühn, M. U. Rauch, J. D. G. Correia, G. R. J. Artus, *Inorg. Chem.* **1995**, 32, 2914-2920. DOI: 10.1021/ic00115a019. Cited: 67; Impact Factor: 4.762.
- 2** - *Methyltrioxorhenium as a Catalyst of the Bayer-Villiger Oxidation*, W. A. Herrmann, R. W. Fischer, J. D. G. Correia, *J. Mol. Cat.* **1994**, 94, 213-223. DOI: 10.1016/S0304-5102(94)87043-8. Cited: 95; Impact Factor: 3.615.
- 1** - *Homogenkatalytische Oxidation von Arenen und eine neue Synthese von Vitamin K3*, W. Adam, W. A. Herrmann, J. Lin, C. R. Saha-Möller, R. W. Fischer, J. D. G. Correia, *Angew. Chem.* **1994**, 106, 2545-2546; *Angew. Chem. Int. Ed. Engl.* **1994**, 33, 2475-2477. DOI: 10.1002/ange.19941062322. Cited: 110; Impact Factor: 11.261

Oral Communications

- 26** - *Ruthenium-peptide conjugates for the selective treatment of triple-negative breast cancer*, J. D. G. Correia, 17th Iberian Peptide Meeting (EPI2020), February 5-7, 2020, Madrid, Spain.
- 25** - *Peptides derived from Dengue virus type 2 capsid protein translocate the blood brain barrier: Radiometalation and biological evaluation*, J. D. G. Correia, *Invited Lecture at the Institute of Inorganic Chemistry, University of Vienna*, 21 November, **2017**, Vienna, Austria.
- 24** - *Novel radiometaled peptides translocate reversibly the blood-brain barrier*, J. D. G. Correia, *IAS Birmingham and TUM-IAS joint workshop on Inorganic Chemistry*

meets Medicine, TUM Institute for Advanced Study, Technical University of Munich, Garching b. München, October 25-26, 2017, Munich, Germany.

- 23** - *The Importance of Radionuclides in Drug Development*, J. D. G. Correia, *Invited Lecture at the Inorganic Chemistry Institute, Technical University of Munich, Garching b. München*, October 4th, 2016, Munich, Germany.
- 22** - *Radioactive Bone-seeking Molecular and Nanoparticle Platforms for Theranostic Applications*, J. D. G. Correia, *Conference on radiopharmaceutical agents to treat bone metastases*, December 4th, 2015, Instituto de Medicina Molecular, Lisbon, Portugal.
- 21** - *New Bimodal Nanoprobos for Sentinel Lymph Node Imaging*, J. D. G. Correia, *XV Congresso Nacional de Medicina Nuclear*, November 21st, 2015, Coimbra, Portugal.
- 20** - *Radiometalated L-Arginine Derivatives for Tumor Imaging*, J. D. G. Correia, *6th European Conference on Chemistry in Life Sciences*, June 10th, 2015, Lisbon, Portugal.
- 19** - *Radiolabeled Peptide-modified Gold Nanoparticles for Cancer Theranostics*, J. D. G. Correia, *10th Anual Meeting of the European Society for Molecular Imaging, European Molecular Imaging Meeting – EMIM 2015*, 18-20 March, 2015, Tübingen, Germany.
- 18** - *Pharmacokinetics of a Radiolabeled anti-TNF VHH Single-Domain Antibody Containing an Albumin-Binding Domain*, J. D. G. Correia, *COST TD1004 Action: Theranostics Imaging and Therapy: An Action to Develop Novel Nanosized Systems for Imaging-Guided Drug Delivery*, Annual Meeting, October 3-4, 2014, Istanbul, Turkey.
- 17** - *Peptide-Based Radioactive Probes for SPECT-Imaging of Melanoma*, J. D. G. Correia, September 6th, 2012, *Groningen Research Institute of Pharmacy, University of Groningen*, the Netherlands.
- 16** - *Pharmacokinetic Properties of a ⁶⁷Ga-labeled anti-TNF VHH Single Domain Antibody Containing a Bacterial Albumin-Binding Domain (Zag)*, J. D. G. Correia,

2nd International Workshop on Innovative Personalized Radioimmunotherapy, WIPR 2013, July, 2013, Nantes, France.

- 15 - *Re(I)/^{99m}Tc(I) Organometallic Complexes for Targeting Nitric Oxide Synthase in vivo: Recent Advances*, J. D. G. Correia, *ChemForum 2011 Winter edition, Scientific Series*, February 23rd, 2011, Centro de Química Estrutural, IST, Lisbon, Portugal.
- 14 - *Nitric Oxide Synthase Targeting with ^{99m}Tc(I)/Re(I) Complexes*, J. D. G. Correia, 5th *International Symposium on Bioorganometallic Chemistry*, July 5–9, 2010, Ruhr-Universität Bochum, Germany.
- 13 - *Preclinical Evaluation of New ^{99m}Tc(I)–Complexes with Amino-Bisphosphonates for the Diagnosis of Bone Metastases*, J. D. G. Correia, *VI Jornadas do Serviço de Medicina Nuclear do Hospital Garcia de Orta, Cancro da Mama*, May 21 - 22, 2010, Sesimbra, Portugal.
- 12 - *Microwave-Assisted Solid-Phase Peptide Synthesis for Biomedical Applications*, J. D. G. Correia, *QLabo Seminar May 20, 2010, Faculty of Pharmacy, University of Lisbon*, Lisbon, Portugal.
- 11 - *Rhenium and Technetium Complexes with N-Omega-Substituted L-Arginine Analogues as Potencial Probes for Inducible Nitric Oxide Synthase*, J. D. G. Correia, 10th *International Symposium on Applied Bioinorganic Chemistry 2009*, September 25 – 28, Debrecen, Hungary.
- 10 - *Rhenium and Technetium Organometallic Complexes with Pendant L-Arginine Analogues as Potencial Probes of Inducible Nitric Oxide Synthase*, J. D. G. Correia, *Invited Lecture at the Inorganic Chemistry Institute, Technical University of Munich, Garching b. München*, May 5th, 2008, Munich, Germany.
- 9 - *Complexos Organometálicos de Re e ^{99m}Tc com Afinidade para o Óxido Nítrico Sintase e sua Relevância Biológica*, J. D. G. Correia, *Ciclo de Seminários Professora Marieta da Silva, DQB-FCUL*, December 19th, 2007, Lisbon, Portugal.
- 8 - *New Re/Tc Organometallic Complexes with Pyrazolyl-Based Chelators for Nuclear Targeting*, J. D. G. Correia, *COST D39 - Joint meeting between WG1 and WG3*, September, 2007, Villars-sur-Ollon, Switzerland.

- 7 - *Phosphine-Based Chelators for Labelling a Serotonergic Receptor Ligand with fac-[^{99m}Tc(CO)₃]⁺*, J. D. G. Correia, *COST B12 Working Group 5, Technetium Chelates*, 2002, Lisbon, Portugal.
- 6 - *Heterofunctionalized Phosphines as Chelating Ligands for the Labelling of a Serotonergic Receptor Ligand with the fac-[^{99m}Tc(CO)₃]⁺ Moiety*, J. D. G. Correia, *Conference on Advances and Perspectives in Radiotracer Development, COST Action B12*, 2002, Rossendorf/Dresden, Germany.
- 5 - *Rhenium and Technetium with Heterofunctionalized Phosphines (HPN₂, H₂PNO). fac-[M(CO)₃]⁺ moiety (M = Re, Tc)*, J. D. G. Correia, *COST B12 Working Group 5, Technetium Chelates*, 2002, Dresden, Germany.
- 4 - *Labelling of Small Biomolecules with Phosphorus-Containing Ligands Using the “3+1” Approach*, J. D. G. Correia, *COST B12 Working Group 5, Technetium Chelates*, 2001, Athens, Greece.
- 3 - *Re(V) and Tc(V) Mixed-Ligand Oxocomplexes with New [(PNO/S)(S)] Donor Atom Sets for Labeling CNS Receptor Ligands*, J. D. G. Correia, *V Conferência de Química Inorgânica, Sociedade Portuguesa de Química*, 2001, Monte Real, Portugal.
- 2 - *Rhenium(V) Oxo Complexes With Novel PNO and PN₂ Chelating Ligands For the Labelling of Bioactive Molecules*, J. D. G. Correia, A. Paulo, Â. Domingos, I. Santos, *IV Conferência de Química Inorgânica, Sociedade Portuguesa de Química*, 1999, Peniche, Portugal.
- 1 - *Molecular Rhenium Oxides as Oxidation Catalysts*, J. D. G. Correia, W. A. Herrmann, F. E. Kühn, G. R. J. Arthus, C. C. Romão, *Open Meeting of the Network “Selective Processes and Catalysis involving Small Molecules”*, 1996, ITQB, Oeiras, Portugal.

Poster Communications

- 64 - *Novel treatment for pneumococcal meningitis: An innovative brain targeted immunoliposome for antimicrobial drug delivery*, S. I. Aguiar, M. M. Gaspar, M. Silva, M. Ferreira, D. Martins, A. André, V. Neves, J. Dias, B. Carrapiço, L. Gano, J. D. G. Correia, J. Carriço, L. Tavares, J. Gonçalves, M. Castanho, F. Aires da

Silva, 30th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Paris, France, April 18-21, 2020.

- 63** - *Indium(III) Complex with a bifunctional agent for dual targeting of cancer cells*, F. Vultos, C. Fernandes, F. Mendes, J. D. G. Correia, L. Gano, *third international symposium on Technetium and Other Radiometals in Chemistry and Medicine (TERACHEM 2018)*, Forum Brixen/Bressanone, Bressanone, Italy, September 26-29, 2018.
- 62** - *Trans-Blood brain barrier peptides to enhance delivery of therapeutic molecules to treat Alzheimer's disease*, V. Neves, F. Aires-Da-Silva, L. Gano, S. Corte-Real, J. D. G. Correia, M. A. R. B. Castanho, *35th European Peptide Symposium*, Dublin City University, Ireland, August 26-31, 2018.
- 61** - *Novel Peptide delivery systems for Blood brain barrier translocation with a focus on Alzheimer's disease*, V. Neves, F. Aires-da-Silva, M. Morais, L. Gano, S. Aguiar, H. V. Miranda, D. Gaspar, S. Corte Real, **J. D. G. Correia**, M. A. R. B. Castanho, *Gordon Research Conferences, Barriers of the CNS, Exploring Novel Technologies to Overcome Present Challenges in Understanding Brain Barriers Function*, Colby-Sawyer College, 541 Main Street, New London, NH, USA, June 17 – 22, 2018.
- 60** – *Cystic fibrosis: new molecular imaging tools*, V. F. C. Ferreira, B. L. Oliveira, J. D. G. Correia, I. Santos, C. M. Farinha, F. F. Mendes, *Gordon Research Conferences, Metals in Medicine, The Indispensable Role of Metals in Medical Diagnostics, Therapeutics and Beyond*, Proctor Academy, 204 Main Street Andover, NH, USA, June 24 – 29, 2018.
- 59** - *Radiometallated cell-penetrating peptides derived from a viral capsid protein*, V. Neves, F. Aires-da-Silva, M. Morais, L. Gano, A. Pinto, S. Aguiar, D. Gaspar, C. Fernandes, M. A. R. B. Castanho, J. D. G. Correia, *Gordon Research Conferences, Metals in Medicine, The Indispensable Role of Metals in Medical Diagnostics, Therapeutics and Beyond*, Proctor Academy, 204 Main Street Andover, NH, USA, June 24 – 29, 2018.
- 58** - *Tyrosine-kinase receptor targeted platinum(IV) complexes*, C. Kowol, J. D. G. Correia, P. Heffeter, W. Berger, I. Santos, B. Keppler, *4th Whole Action Meeting of the COST Action CM1105, 3rd International Symposium on Functional Metal*

Complexes that Bind to Biomolecules, Palma de Mallorca, Spain, April 28-29, 2016

- 57** - *In-111 labeled peptides towards the estrogen receptor for theranostic of breast cancer*, F. Vultos, M. Scheepstra, C. Fernandes, F. Mendes, L. Brunsveld, J. D. G. Correia, L. Gano, *15th Iberian Peptide Meeting – EPI XV*, 10-12 February, 2016, Porto, Portugal.
- 56** - *Novel radiopeptides for molecular imaging of EGFR positive tumors*, A. Gonçalves, L. Gano, J. D. G. Correia, F. Mendes, M. Morais, I. Santos, C. Fernandes, *15th Iberian Peptide Meeting – EPI XV*, 10-12 February, 2016, Porto, Portugal.
- 55** - *Block copolymer micelles for cancer therapy*, E. M. Ribeiro, C. Fernandes, F. Marques, J. D. G. Correia, D. Matos, I. Alho, S. Casimiro, L. Costa, I. Santos, *Training Network project Trace’N Treat, Conference on Molecular and Supramolecular Carriers for Imaging and Therapy*, 13-15th of July, 2015, Lisbon, Portugal.
- 54** - *In-111 labeled peptides targeting the estrogen receptor for theranostic of cancer*, F. Vultos, C. Fernandes, J. D. G. Correia, I. Santos, L. Gano, *Training Network project Trace’N Treat, Conference on Molecular and Supramolecular Carriers for Imaging and Therapy*, 13-15th of July, 2015, Lisbon, Portugal.
- 53** - *Synthesis, characterization and biological evaluation of radiometallated $Ru(\eta^5-Cp)(\eta^6-Tyr)$ peptides with the HAV motif*, Z. Bihari, F. Vultos, J. D. G. Correia, C. Fernandes, L. Gano, I. Santos, P. Buglyó, *13th International Symposium on Applied Bioinorganic Chemistry (ISABC13)*, 12-15 June 2015, NUI Galway, Galway, Ireland
- 52** - *Influence of the radionuclide on the stability and biological profile of a ER targeting peptide*, F. Vultos, M. Belo, C. Fernandes, J. D. G. Correia, M. C. Oliveira, I. Santos, L. Gano, *Workshop LOWDOSE-PT-2015, Biological effects and risks of low dose and protracted exposures to ionizing radiation*, 15-16 April, 2015, CTN/IST, Bobadela LRS, Portugal.
- 51** - *Novel $^{67/68}Ga$ -complexes for molecular imaging of EGFR positive tumors*, A. Gonçalves, M. Morais, L. Gano, J. D. G. Correia, F. Mendes, I. Santos, C. Fernandes, *10th Annual Meeting of the European Society for Molecular Imaging*,

European Molecular Imaging Meeting – EMIM 2015, 18-20 March, 2015, Tübingen, Germany.

- 50** - *Computational modeling and simulation of complexes between rhenium(I) and nitric oxide synthase*, B. L. Oliveira, I. S. Moreira, I. Santos, P. A. Fernandes, M. J. Ramos, J. D. G. Correia, *Biophysical Society Meeting*, February 2014, USA.
- 49** - *NMR studies on NO Synthase isoforms inhibition by Re(CO)₃-complexes*, A. L. Macedo, F. Leisico, M. S. A. Correia, M. Morais, B. L. Oliveira, M. J. Romão, T. Santos-Silva, J. G. D. Correia, *VII Biennial Meeting of the Nuclear Magnetic Resonance Group of the Spanish Royal Society of Chemistry / IV Iberian NMR Meeting / VI Ibero-American NMR Meeting (GERMN 2014 Meeting)*, September 22 – 25, 2014, Alcalá de Henares, Spain.
- 48** – *Structural and functional studies on Nitric Oxide Synthase complexed with Re(CO)₃-compounds*, F. Leisico, M. A. S. Correia, M. Morais, B. L. Oliveira, A. L. Macedo, M. J. Romão, T. Santos-Silva, J. D. G. Correia, *15th International Conference on the Crystallization of Biological Macromolecules. Crystallization Workshop*, September 14 - 20, 2014, Hamburg, Germany
- 47** - *Novel radiolabelled probes for in vivo detection of CFTR*, V. F. C. Ferreira, B. L. Oliveira, J. D. G. Correia, I. Santos, C. M. Farinha, F. Mendes, *11th European Cystic Fibrosis Basic Science Conference*, March 26-29, 2014, St. Julians, Malta
- 46** - *Radiolabelling of anti-CFTR antibodies for the detection of CFTR*, V. F. C. Ferreira, B. L. Oliveira, J. D. G. Correia, K. W. Peters, I. Santos, C. M. Farinha, F. Mendes, *11th European Cystic Fibrosis Basic Science Conference*, March 26-29, 2014, St. Julians, Malta.
- 45** - *Targeted-receptor bimodal probe for sentinel lymph node detection*, J. D. G. Correia, M. Morais, M. P. C. Campello, C. Xavier, S. Hernot, T. Lahoutte, V. Caveliers, I. Santos, *Annual Meeting of Cost Action 1004*, September 2013, Athens, Greece.
- 44** - *Bimodal nanoprobe for sentinel lymph node detection by positron emission tomography and optical Imaging*, M. P. C. Campello, M. Morais, C. Xavier, S. Hernot, T. Lahoutte, J. D. G. Correia, V. Caveliers, I. Santos, *The 3rd Global Cancer*

Genomics Consortium Symposium (GCGCS), September 2013, IMM, Lisbon, Portugal

- 43** - *MC1R-targeted metallopeptides: NMR structural analysis*, M. Morais, P. D. Raposinho, M. C. Oliveira, M. A. Jiménez, D. Pantoja-Uceda, J. D. G. Correia, I. Santos, *Summer School on Chemistry of Metals in Biological Systems, COST Action CM 1105*, May 2013, Louvain-la-Neuve, Belgium.
- 42** - *Detection of sentinel lymph node by single photon emission computed tomography and optical imaging with a bimodal probe*, M. Morais, C. Xavier, S. Hernot, T. Lahoutte, V. Caveliers, J. D. G. Correia, I. Santos, *The 3rd Global Cancer Genomics Consortium Symposium (GCGCS)*, September 2013, IMM, Lisbon, Portugal.
- 41** - *Albumin binding domains Zag and Proth improve pharmacokinetics and affects biodistribution of an anti-TNF VHH*, C. Cantante, S. Lourenço, J. Leandro, M. Morais, S. Oliveira, L. Gano, C. Fontes, P. Leandro, J. D. G. Correia, F. Silva, J. Gonçalves, *PEGS Summit Europe 2013*, November 2013, Lisbon, Portugal.
- 40** - *Bisphosphonate-containing $M(\text{CO})_3$ -complexes ($M = {}^{99m}\text{Tc}/\text{Re}$) as bone-seeking agents*, C. Fernandes, S. Monteiro, P. Mendes, L. Gano, F. Marques, J. D. G. Correia, L. Costa, S. Casimiro, I. Santos, *The 3rd Global Cancer Genomics Consortium Symposium (GCGCS)*, September, 2013, IMM, Lisbon, Portugal.
- 39** - *Indium-111 radiolabelled peptide for theranostics of ER positive tumours*, F. Vultos, C. Fernandes, I. Santos, J. Correia, L. Gano, *NanoFar, Autumn School*, October 2013, Santiago de Compostela, Spain.
- 38** - *MC1R-targeting properties of ${}^{99m}\text{Tc}(I)$ -labeled cyclic α -MSH analogs with thioether or amine bridge*, J. D. G. Correia, M. Morais, P. D. Raposinho, M. C. Oliveira, I. Santos, M. A. Jiménez, D. Pantoja-Uceda, *XIII Iberian Peptide Meeting*, 1-3 February, 2012, Alicante, Spain.
- 37** - *Modulation of the pharmacokinetic properties of ${}^{99m}\text{Tc}(\text{CO})_3\text{-}\beta\text{Ala-MTII}$* , M. Morais, B. L. Oliveira, J. D. G. Correia, M. C. Oliveira, I. Santos, P. D. Raposinho, *XIII Iberian Peptide Meeting*, 1-3 February, 2012, Alicante, Spain.

- 36** - *Albumin-binding domain (Zag) from Streptococcus zooepidemicus increases half-life and affect blood clearance of anti-TNF VHH*, C. Cantante, S. Lourenço, M. Morais, L. Gano, C. Santos, C. Fontes, J. D. G. Correia, F. Silva, J. Gonçalves, *8th Annual PEGS 2012 - the Essential Protein Engineering Summit*, April 30 - May 4, 2012, Boston, MA, USA.
- 35** - *^{99m}Tc/Re-tricarbonyl complexes containing pendant acetamidine moieties for iNOS targeting*, B. L. Oliveira, N. R. Martins, I. F. Rodrigues, A. Ponces, C. Cordeiro, P.A. Fernandes, M. J. Ramos, I. Santos, J. D. G. Correia, *XXV International Conference on Organometallic Chemistry*, September 2-7, 2012, Lisbon, Portugal
- 34** - *Design, characterization and evaluation of cyclized α -MSH Derivatives for MC1R targeting*, M. Morais, P. D. Raposinho, M. C. Oliveira, M. A. Jiménez, D. Pantoja-Uceda, J. D. G. Correia, I. Santos, *XXV International Conference on Organometallic Chemistry*, 2-7 September, 2012, Lisbon, Portugal
- 33** - *BP-containing $M(\text{CO})_3$ -complexes ($M = ^{99m}\text{Tc}/\text{Re}$) as multi-functional bone-seeking agents*, S. Monteiro, P. Mendes, C. Fernandes, L. Gano, E. Palma, J. D. G. Correia, I. Santos, *XXV International Conference on Organometallic Chemistry*, September 2-7, 2012, Lisbon, Portugal.
- 32** - *Albumin-binding domain from Streptococcus pyogenes protein H increases half-life and affect blood clearance of anti-TNF VHH*, C. Cantante, S. Lourenço, J. Leandro, M. Morais, L. Gano, C. Fontes, J. D. G. Correia, P. Leandro, F. Silva, J. Gonçalves, *PEGS Summit Europe 2012 – Protein and Antibody Engineering Summit*, 6-8 November, 2012, Vienna, Austria
- 31** - *^{99m}Tc(I)-Labeled homobivalent α -MSH analogs for melanoma detection*, J. D. G. Correia, M. Morais, P. D. Raposinho, M. C. Oliveira, I. Santos, *The 22nd American Peptide Symposium 2011*, 25 -30 June, 2011, San Diego, USA.
- 30** - *Novel ^{99m}Tc(CO)₃-labeled cyclic α -MSH analogs*, M. Morais, P. D. Raposinho, M. C. Oliveira, J. D. G. Correia, I. Santos, *The 22nd American Peptide Symposium 2011*, 25 – 30 June, 2011, San Diego, USA.
- 29** - *Homobivalent α -MSH derivatives for melanoma imaging: ^{99m}Tc(CO)₃-Labeling and biological evaluation*, M. Morais, P. D. Raposinho, J. D. G. Correia, I. Santos,

The 31st European Peptide Symposium, September 5-9, 2010, Copenhagen, Denmark.

- 28** - *Re and ^{99m}Tc-complexes containing N^ω-Substituted L-arginine analogues: Enzymatic assays and biological assessment*, B. L. Oliveira, P. D. Raposinho, J. D. G. Correia, I. Santos, A. Ferreira, C. Cordeiro, A. P. Freire, *10th International Symposium on Applied Bioinorganic Chemistry*, 25 – 28 September, 2009, Debrecen, Hungary.
- 27** - *^{99m}Tc(I)-labeled bisphosphonates for bone imaging*, E. Palma, B. L. Oliveira, J. D. G. Correia, L. Gano, I. Santos, *10th International Symposium on Applied Bioinorganic Chemistry*, September 25 – 28, 2009, Debrecen, Hungary.
- 26** - *Novel ^{99m}Tc(CO)₃-complexes containing guanidinium moieties potentially useful for probing nitric oxide synthase*, B. L. Oliveira, J. D. G. Correia, P. D. Raposinho, I. Santos, C. Cordeiro, A. P. Freire, *World Molecular Imaging Congress*, 10-13 September, 2008, Nice, France.
- 25** - *^{99m}Tc(CO)₃-labeled bisphosphonates for bone imaging*, E. Palma, B. L. Oliveira, J. D. G. Correia, L. Gano, I. Santos, *World Molecular Imaging Congress*, 10-13 September, 2008, Nice, France
- 24** - *Re and ^{99m}Tc organometallic complexes containing L-arginine analogues as substrates/inhibitors of Nitric Oxide Synthase*, B. L. Oliveira, J. D. G. Correia, P. D. Raposinho, I. Santos, C. Cordeiro, Ana P. Freire, *VII Conferência de Química Inorgânica, Sociedade Portuguesa de Química*, 2007, Fátima, Portugal.
- 23** - *Bisphosphonate-containing ^{99m}Tc(I) tricarbonyl complexes potentially useful as bone-seeking agents: synthesis and biological evaluation*, E. Palma, B. L. Oliveira, J. D. G. Correia, L. Gano, I. Santos, *VII Conferência de Química Inorgânica, Sociedade Portuguesa de Química*, 2007, Fátima, Portugal
- 22** - *Labeling of tumor-seeking peptides with the fac-[^{99m}Tc(CO)₃]⁺ moiety using bifunctional pyrazolyl-containing chelators: Chemistry, radiochemistry and biological evaluation*, J. D. G. Correia, S. Alves, I. Santos, P. D. Raposinho, C. Decristoforo, R. Haubner, I. Hernandez-Gonzales, M. Rupprich, C. J. Smith, *Gordon Research Conferences on Metals in Medicine*, 2006, Oxford, UK.

- 21 - *Bifunctional pyrazolyl-containing ligands for labelling bioactive peptides with the organometallic core fac-[^{99m}Tc(CO)₃]⁺*, J. D. G. Correia, S. Alves, I. Santos, P. D. Raposinho, C. Decristoforo, R. Haubner, I. Hernandez-Gonzales, M. Rupprich, C. J. Smith, *EUROBIC 8*, 2006, Aveiro, Portugal.
- 20 - *Labelling of L-arginine derivatives with the organometallic moiety fac-[^{99m}Tc(CO)₃]⁺ Using Bifunctional Pyrazolyl-Containing Chelators*, B. Oliveira, J. D. G. Correia, I. Santos, *EUROBIC 8*, 2006, Aveiro, Portugal.
- 19 - *Melanoma targeting with [^{99m}Tc(CO)₃-pyrazolyl-MSH analog]-conjugate*, P. D. Raposinho, J. D. G. Correia, S. Alves, I. Santos, *EUROBIC 8*, 2006, Aveiro, Portugal.
- 18 - *Phosphorus containing chelators for labelling 5-HT_{1A} receptor-binding ligands with the [M=O]³⁺ and [M(CO)₃]⁺ cores*, J. D. G. Correia, C. Fernandes, E. Palma, I. Santos, L. Gano, S. Seifert, R. Syhre, R. Bergmann, H. Spies, R. Alberto, *Radiotracers for in vivo assessment of biological function - New directions, COST B12 Final Conference*, 2005, Warsaw, Poland.
- 17 - *Functionalization of pyrazolyl containing ligands for labeling biomolecules with the unit fac-[^{99m}Tc(CO)₃]⁺*, S. Alves, J. D. G. Correia, A. Paulo, L. Gano, I. Santos, *Second International Symposium on Bioorganometallic Chemistry*, 2004, Zurich, Switzerland.
- 16 - *Marcação de péptidos biologicamente activos com a unidade fac-[^{99m}Tc(CO)₃]⁺*, S. Alves, J. D. G. Correia, A. Paulo, L. Gano, Â. Domingos, I. Santos, *XIX Encontro Nacional, Sociedade Portuguesa de Química*, 2004, Coimbra, Portugal.
- 15 - *Complexos do tipo fac-[MX(CO)₃(k²-PO/N)] (M = Re, ^{99m}Tc) funcionalizados com um fragmento arilpiperazina*, E. Palma, J. D. G. Correia, I. F. A. Pereira, I. Santos, H. Spies, A. Drews, R. Alberto, *XIX Encontro Nacional, Sociedade Portuguesa de Química*, 2004, Coimbra, Portugal.
- 14 - *Phosphine-based BFCA for labelling 5-HT_{1A} receptor ligands with [^{99m}Tc(CO)₃]⁺*, E. Palma, J. D. G. Correia, Â. Domingos, I. F. A. Pereira, I. Santos, A. Drews, H. Spies,

Annual Congress of the European Association of Nuclear Medicine, 2003, Amsterdam, the Netherlands.

- 13 - *Labelling bioactive peptides with the unit fac-[^{99m}Tc(CO)₃]⁺*, S. Alves, J. D. G. Correia, A. Paulo, L. Gano, Â. Domingos, I. Santos, *7th FIGIPS Meeting in Inorganic Chemistry*, 2003, Lisbon, Portugal.
- 12 - *Novel Re and ^{99m}Tc '3+1' oxocomplexes with high affinity for the 5-HT_{1A} receptor*, C. Fernandes, J. D. G. Correia, L. Gano, I. Santos, H. Spies, S. Seifert, *7th FIGIPS Meeting in Inorganic Chemistry*, 2003, Lisbon, Portugal.
- 11 - *A novel Re(I) tricarbonyl complex anchored on a phosphorus-oxazoline ligand generated in-situ*, E. Palma, J. D. G. Correia, Â. Domingos, T. Kniess, I. Santos, *7th FIGIPS Meeting in Inorganic Chemistry*, 2003, Lisboa, Portugal.
- 10 - *New "3+1" Tc(V) oxocomplexes containing a tridentate H₂PNS ligand and different monodentate ligands for the 5HT_{1A} receptor*, C. Fernandes, J. D. G. Correia, I. Santos, H. Spies, S. Seifert, *Conference on Advances and Perspectives in Radiotracer Development, COST Action B12*, 2002, Rossendorf/Dresden, Germany
- 9 - *Oxocomplexos mistos de Re para marcação de pequenos péptidos*, E. Palma, J. D. G. Correia, Â. Domingos, I. Santos, *XVIII Encontro Nacional, Sociedade Portuguesa de Química*, 2002, Aveiro, Portugal.
- 8 - *Coordenação de um antagonista dos receptores serotoninérgicos 5HT_{1A} à unidade [Re(CO)₃]⁺*, I. F. A. Pereira, J. D. G. Correia, T. Kniess, Â. Domingos, I. Santos, *XVIII Encontro Nacional, Sociedade Portuguesa de Química*, 2002, Aveiro, Portugal.
- 7 - *Novos compostos de Re e de ^{99m}Tc para marcação de péptidos*, S. Alves, Â. Domingos, A. Paulo, J. D. G. Correia, *XVIII Encontro Nacional, Sociedade Portuguesa de Química*, 2002, Aveiro, Portugal.
- 6 - *Oxocomplexos mistos de Re para marcação de pequenos péptidos*, E. Palma, J. D. G. Correia, Â. Domingos, I. Santos, *XVIII Encontro Nacional, Sociedade Portuguesa de Química*, 2002, Aveiro, Portugal.

- 5 - *Re and Tc oxocomplexes with SSS/S donor atom sets for labelling biomolecules*, E. Palma, J. D. G. Correia, Â. Domingos, I. Santos, *V Conferência de Química Inorgânica, Sociedade Portuguesa de Química*, 2001, Monte Real, Portugal
- 4 - *Uncommon neutral trichlorooxorhenium(V) complexes with ligands of the type PN₂ and PNO*, J. D. G. Correia, Â. Domingos, I. Santos, *5th FGIPS Meeting in Inorganic Chemistry*, Toulouse, 1999, France
- 3 - *Cis-dioxocomplexes of Mo(VI) with N and O Ligands: Inorganic and organometallic derivatives*, J. D. G. Correia, A. D. Lopes, E. Herdtweck, C. C. Romão, *13th Summer School on Coordination Chemistry*, 1996, University of Wroclaw, Poland
- 2 - *Síntese e catálise de cis-dioxo complexos de Mo(VI) com ligandos azotados*, J. D. G. Correia, A. D. Lopes, E. Herdtweck, C. C. Romão, *XV Encontro da Sociedade Portuguesa de Química*, 1996, Porto, Portugal.
- 1 - *Synthesis and catalysis with Mo and W oxide complexes*, W. A. Herrmann, J. D. G. Correia, A. D. Lopes, M. Pillinger, C. C. Romão, *Selective Processes and Catalysis Involving Small Molecules*, 1995, Athens, Greece.

Proceedings

- 14 – *Biological evaluation of radiolabelled peptides for oestrogen positive tumour theranostics*, M. Gano, F. Vultos, C. Fernandes, F. Silva, F. Mendes, J. D. G. Correia, *Eur. J. Nucl. Med. Mol. Imag.* **2019**, *46 Suppl 1*, S711-S711. Special Issue: 32nd Annual Congress of the European Association of Nuclear Medicine (EANM), Barcelona, Spain, October 12-16, 2019.
- 13 – *Trans-Blood brain barrier peptides to enhance delivery of therapeutic molecules to treat Alzheimer's disease*, V. Neves, F. Aires-Da-Silva, L. Gano, S. Corte-Real, J. D. G. Correia, M. Castanho, *J. Pept. Sci.* **2018**, *24* (Suppl. 2), S135-S135. Special issue: 35th European Peptide Symposium (35EPS), Dublin City University, Dublin, Ireland, August 26-31, 2018.
- 12 - *^{99m}Tc(I)-Labeled homobivalent alpha-MSH analogs for melanoma detection*, J. D. G. Correia, M. Morais, P. D. Raposinho, M. C. Oliveira, I. Santos, *Biopolymers* **2011**,

96(4), 504. Special Issue: 22nd American Peptide Symposium, San Diego, CA, June 25-30, 2011.

- 11 - ^{99m}Tc(I)-Cyclic alpha-MSH analogs for MC1R targeting, M. Morais, P. D. Raposinho, M. C. Oliveira, J. D. G. Correia, I. Santos, *Biopolymers* **2011**, 96(4), 515. Special Issue: 22nd American Peptide Symposium, San Diego, CA, June 25-30, 2011.
- 10 - New ^{99m}Tc(CO)₃ mannosylated dextrans bearing S-derivatized cysteine chelator, T. Tsotakos, M. Morais, J. D. G. Correia, I. Santos, M. Martins, S. Pereira, M. Pelecanou, M. Papadopoulos, I. Pirmettis, *Technetium and Other Radiometals in Chemistry and Medicine*, U. Mazzi, W. C. Eckelman, W. A. Volkert Eds., SG-Editoriali, Padova, Italy, 2010, 69-72.
- 9 - 2,3-Diamino propionic acid based chelators for labeling biomolecules with ^{99m}Tc(I), B. L. Oliveira, Y. Liu, J. D. G. Correia, I. Santos, L. Gano, B. Spingler, R. Alberto, *Technetium and Other Radiometals in Chemistry and Medicine*, U. Mazzi, W. C. Eckelman, W. A. Volkert Eds., SG-Editoriali, Padova, Italy, 2010, 335-336.
- 8 - 1-Hydroxybisphosphonate-containing amino acids for radioactivity delivery, E. Palma, J. D. G. Correia, L. Gano, I. Santos, *Technetium and Other Radiometals in Chemistry and Medicine*, U. Mazzi, W. C. Eckelman, W. A. Volkert Eds., SG-Editoriali, Padova, Italy, 2010, 401-402.
- 7 - PEGylated DOTA-alpha-MSH analogues for in vivo targeting of melanoma, F. Silva, M. Morais, P. D. Raposinho, M. Paula, C. Carvell, J. D. G. Correia, A. Paulo, I. Santos, Isabel, *Technetium and Other Radiometals in Chemistry and Medicine*, U. Mazzi, W. C. Eckelman, W. A. Volkert Eds., SG-Editoriali, Padova, Italy, 2010.
- 6 - Homobivalent alpha-MSH derivatives for Melanoma Imaging: ^{99m}Tc(CO)₃-Labeling and Biological Evaluation, M. Morais, P. D. Raposinho, J. D. G. Correia, I. Santos, *J. Pept. Sci.* **2010**, 16 (Suppl. 1), 186.
- 5 - Metal-based drugs for diagnosis and therapy, S. Alves, R. Vitor, P. D. Raposinho, F. Marques, J. D. G. Correia, A. Paulo, I. Santos. In: *Metal Ions in Biology and Medicine*, John Libbey Eurotext Paris, 2006, 9, 3-8.

- 4 - *Coordination chemistry of new phosphine-containing ligands towards the organometallic moiety fac-[Re(CO)₃]⁺*, I. F. A. Pereira, T. Kniess, E. Palma, J. D. G. Correia, Â. Domingos, I. Santos, *Technetium and Rhenium in Chemistry and Nuclear Medicine 6*, M. Nicolini, U. Mazzi Eds., SG-Editoriali, Padova, Italy, 2002, 119-121.
- 3 - *New building blocks for labeling peptides with the [^{99m}Tc(CO)₃]⁺ Core*, S. Alves, A. Paulo, J. D. G. Correia, L. Gano, I. Santos, *Technetium and Rhenium in Chemistry and Nuclear Medicine 6*, M. Nicolini, U. Mazzi Eds., SG-Editoriali, Padova, Italy, 2002, 139-141.
- 2 - *Synthesis and characterization of a new Re(V) nitrido complex with iminobis(diphenylphosphineoxide): [ReN{N(OPPh₂)₂(PPh₃)₂}]*, J. D. G. Correia, Â. Domingos, A. Paulo, I. Santos, V. G. Montalvo, R. C. Olivares, *Technetium, Rhenium and Other Metals in Chemistry and Nuclear Medicine 5*, eds. M. Nicolini and U. Mazzi., SG Editoriali, Padova, Italy, 1999, 157 – 160.
- 1 - *Novel ¹⁸⁶Re complexes prepared using the irradiation conditions available at the RPI: Synthesis characterization and evaluation of their stability*, J. D. G. Correia, C. Fernandes, F. Marques, E. Martinho, Â. Domingos, Â. Gouveia, L. Patrício, I. Santos, *International Symposium on Research Reactor Utilization, Safety and Management*, IAEA, Lisbon, Portugal, 1999, IAEA-SM-360.

Patents

- I. Santos, J. D. G. Correia, A. Paulo, S. Alves, R. Vitor, Bifunctional Tridentate Pyrazolyl Containing Ligands for Re and Tc Tricarbonyl complexes, US20060198785A1, 2006-09-07.
- W. A. Herrmann, J. D. G. Correia, R. W. Fischer, Process for the selective oxidation of aromatic compounds, US5710292A, 1998-01-20.
- W. A. Herrmann, J. D. G. Correia, R. W. Fischer, W. Adam, J. Lin, C. R. Saha-Möller, M. Shimizu, Process for the catalytic oxidation of aromatic compounds, US5616734A, 1997-04-01.
- W. A. Herrmann, J. D. G. Correia, R. W. Fischer, W. Adam, J. Lin, C. R. Saha-Möller, M. Shimizu, Organo rhenium derivs. used as catalysts, DE4419799A1, 1995-12-07.

Research Projects

Principal Investigator (PI)

- *Targeting the transporters of cationic amino acids for cancer radiotheranostics: experimental and computational chemistry approach* - FCT: PTDC/QUI-NUC/30147/2017 (2018 - 2021). Partners: CNC (Universidade de Coimbra).
- *Nitric Oxide Synthase targeting with Re(I)/^{99m}Tc(I)-complexes containing L-Arg derivatives: A structure-activity study* - PTDC/QUI-QUI/121752/2010 (2012 - 2015), FCT. Partners: ICETA-Porto/ICETA, NOVA.ID.FCT.
- *Radiolabeling of L-arginine analogues with the unit fac-[^{99m}Tc(CO)₃]⁺ for Probing Nitric Oxide Synthase (NOS) in vivo: Synthesis, characterization and biological Evaluation* - POCTI/SAU-FCF/58855/2004 (2006 – 2010) FCT. Partners: FC-UL.

Member of Research Team

- *Engineering of Smart Exosomes for Amyloid-beta Clearance in Alzheimer disease* - PTDC/BTM-SAL/31057/2017 (2018 – 2021) FCT. PI: Fábio Monteiro Fernandes – IBB (IST/ID). Partners: IBB, CQE e C2TN (IST/ID).
- *Development of novel class of antibody-drug conjugated molecules for cancer treatment* - PTDC/BTM-SAL/32085/2017 (2018 – 2021) FCT, PI: Frederico Aires da Silva – FMV-CIISA. Partners: FMV-CIISA, C2TN/IST, iMed/FF, IMM/FM e Technophage.
- *Overcoming the Brain Drug Delivery Bottleneck: Development of single domain antibodies for brain targeting and drug delivery across the Blood Brain Barrier*, PTDC/BBB-BIO/0508/2014, FCT. PI: Frederico Aires da Silva – FMV-UL. C²TN responsible: J. D. G. Correia (2016 - 2019).
- *Peptides for blood brain barrier transmigration and drug delivery novel therapies for the central nervous system*, PTDC/BBB-NAN/1578/2014, FCT. PI: Vera Neves – IMM. C²TN coordinator: J. D. G. Correia (2016 - 2019).

- *Albumin binding-domain fusions to improve protein pharmacokinetics*, PTDC/SAU-FAR/115846/2009, FCT. PI: J. Gonçalves – FFUL. C²TN coordinator: J. D. G. Correia (2011-2014).
- *Molecular and Nano Tools for Cancer Theranostics*. EXCL/QEQ-MED/0233/2012, 06-2013/05-2018, FCT. PI: I. Santos – C²TN/IST. Partners: IMM/FM/UL; ITQB/UNL; UC.
- *Dual Targeting Strategy for EGFR Positive Tumors*, EXPL/QEQ-MED/1950/2013, FCT. 2014-2015. PI: C. Fernandes - C²TN/IST.
- *A Molecular Imaging Approach to Cystic Fibrosis*, EXPL/BIM-MEC/0115/2012, FCT. 2013-2014. PI: F. Mendes – C²TN/IST.
- *Synthesis, Characterization and Biological Assessment of Multi-Functional Bone-Seeking Agents*, PTDC/QUI-QUI/115712/2009, FCT. PI: Isabel Santos – C²TN/IST (2011-2014).
- *Complexos de Re e Tc para Radiofármacos Específicos para Receptores de Péptidos: Química, Radioquímica e Estudos Biológicos in vitro e in vivo* POCTI/QUI/35423/2000, FCT. PI: Isabel Santos – C²TN/IST (2001 - 2004).
- *Specific Organometallic Complexes*, Research Contract Mallinckrodt - Tyco Healthcare (2003 - 2006).
- *Development of ^{99m}Tc-based small biomolecules using novel ^{99m}Tc Cores*, IAEA project (2002-2005).

Industrial Research Contracts

- *Radiometalation and biological evaluation of protein-based biomolecules*. Contract IMM/IST, January 2015- Dezembro 2015. Responsible: J. D. G. Correia.
- *Radiolabeling and biological evaluation of a small domain antibodies*. Contract Technophage/IST, October 2015-September 2016. Responsible: J. D. G. Correia.

- *Peptide Synthesis*. Contract Hovione/IST, 2016. Responsible: I. Santos and J. D. G. Correia.

National and International Cooperation

Networks

- *Correlated Multimodal Imaging in Life Sciences*, COST Action CA17121, 2018-2022.
- *Synthetic Probes for Chemical Proteomics and Elucidation of Biosynthetic Pathways*, COST Action CM1004, 2011-15. COST National Coordinators.
- *Functional metal complexes that bind to biomolecules*, COST Action CM1105, 2012-16.
- *Theranostics Imaging and Therapy: An Action to Develop Novel Nanosized Systems for Imaging-Guided Drug Delivery*, COST Action TD1004, 2011-15.
- *Target-specific and Heterobimetallic Platinum Complexes: Synthesis, Characterization and Mechanistic Studies*, Bilateral project Portugal-Spain (Acções Integradas Luso-Espanholas), 2012-14.
- *Radiotracers for in vivo Assessment of Biological Functions*, COST Action B12, 1999 - 2004.

R&D Cooperation

- Frederico Aires da Silva, Faculdade de Medicina Veterinária, Universidade de Lisboa
- João Gonçalves, Faculdade de Farmácia, Universidade de Lisboa
- José Rino, IMM, Faculdade de Medicina, Universidade de Lisboa
- Luís Costa, IMM, Faculdade de Medicina, Universidade de Lisboa
- Maria João Romão, Faculdade Ciências e Tecnologia, Universidade Nova de Lisboa
- Miguel Castanho, IMM, Faculdade de Medicina, Universidade de Lisboa
- Paula Gomes, Departamento de Química e Bioquímica, FC, Universidade do Porto
- Sandra Casimiro, IMM, Faculdade de Medicina, Universidade de Lisboa
- Technophage S. A. – Biotech Company, IMM, Lisboa
- Teresa Santos Silva, Departamento de Química, FCT, Universidade Nova de Lisboa

- Adoracion Quiroga, Depart. Química Inorgánica, Univ. Autónoma de Madrid, Spain
- Angela Casini, University of Cardiff, UK
- Christian Kowol, Institute of Inorganic Chemistry, University of Vienna, Austria
- Maria Jimenez López, Instituto Rocasolano, Madrid, Spain
- Olga Iranzo, CNRS, Marseille, France
- Roger Alberto, University of Zurich, Switzerland
- Vicky Caveliers, Free University of Brussels, Brussels, Belgium
- F. E. Kühn, Technical University of Munich, Munich

Memberships

- Member of the *Sociedade Portuguesa de Medicina Nuclear*
- Member of the *Sociedade Portuguesa de Química*
- Member of the *Sociedade Portuguesa de Ciências Farmacêuticas*

CTN, IST, Univ. Lisboa

November 29, 2019

João Domingos Galamba Correia