



Curriculum Vitae

Fernanda Marujo Marques

Fernanda Marques has so far 112 papers in international peer review journals and more than 90 presentations at national and international conferences. She participated in 13 projects. She has a graduation in Chemical Engineering at Instituto Superior Técnico, Universidade de Lisboa in 1978 and a PhD in Biochemistry at Faculdade de Ciências, Universidade de Lisboa in 1993. Since 1994, she has been Researcher at Instituto Tecnológico e Nuclear (now Centro Tecnológico e Nuclear). From 1994 to 1998, she was the Executive Director of Laboratório Central de Análises at Aveiro University and since 2012, at the Radiopharmaceutical Sciences Group, Centro Tecnológico e Nuclear, Instituto Superior Técnico, Universidade de Lisboa. She works in the area of Health Sciences with expertise in radioimmunoassays, irradiation techniques (X- and gamma rays, neutrons) radionuclides production in nuclear reactors (^{153}Sm , ^{166}Ho , ^{177}Lu , ^{186}Re , $^{198/199}\text{Au}$) and cancer therapy. She has also expertise in radiochemistry in the synthesis of radiolabeled compounds for cancer therapy. Since 2008 she has also been dedicated to the biological evaluation of (radio)metal based compounds for cancer theranostics.

Identificação

Identificação pessoal

Nome completo

Fernanda Marujo Marques

Género

Feminino

Data de nascimento

1955/06/21

Nomes de citação

Marques, Fernanda

Waerenborgh, Fernanda

Identificadores de autor

Ciência ID

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Moradas

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Rua Padre Américo, 31 4ºA, 1600-548 Lisboa, Lisboa, Portugal (Pessoal)

Domínios de atuação

Ciências Exatas - Química - Química Nuclear
 Ciências Médicas e da Saúde - Ciências da Saúde
 Ciências Naturais - Ciências Biológicas - Bioquímica
 Ciências Exatas - Química - Química Nuclear
 Ciências Exatas - Química - Química Analítica
 Ciências Médicas e da Saúde - Medicina Básica - Química Médica

Idiomas

Idioma	Conversação	Leitura	Escrita	Compreensão	Peer-review
Inglês	Utilizador independent e (B1)	Utilizador proficiente (C1)	Utilizador independent e (B1)	Utilizador independent e (B1)	
Francês	Utilizador independent e (B1)	Utilizador proficiente (C1)	Utilizador elementar (A1)	Utilizador independent e (B1)	
Espanhol; Castelhana	Utilizador elementar (A1)	Utilizador proficiente (C1)	Utilizador elementar (A1)	Utilizador elementar (A1)	
Árabe	Utilizador elementar (A1)	Utilizador elementar (A1)	Utilizador elementar (A1)	Utilizador elementar (A1)	

Formação

	Grau	Classificação
1987/04 - 1993/11 Concluído	n/a (Doutoramento) Especialização em Bioquímica	Magna cum Laude
	Universidade de Lisboa Faculdade de Medicina, Portugal "Contribuição para o Estudo de Fenómenos Redox na Membrana Citoplasmática Modificados pelas Catecolaminas" (TESE/DISSERTAÇÃO)	
1978 Concluído	Engenharia Química (ramo Tecnologia) (Licenciatura)	14/20
	Universidade de Lisboa Instituto Superior Técnico, Portugal "n/a" (TESE/DISSERTAÇÃO)	

Percurso profissional

Ciência

2012 - Atual	Investigador Auxiliar (carreira) (Investigação) Universidade de Lisboa Departamento de Engenharia e Ciências Nucleares, Portugal
1998/11/01 - 2012	Investigador Auxiliar (carreira) (Investigação) Instituto Tecnológico e Nuclear Departamento de Radioisótopos, Portugal
1985/04/01 - 1994/10/01	Assistente de Investigação (carreira) (Investigação) Laboratório Nacional de Engenharia e Tecnologia Industrial , Portugal

Outras Carreiras

1980/09 - 1982/12	Técnico Superior (Técnico Superior) Instituto Hidrográfico, Portugal
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Outros

1994/09/01 - 1998/11/01	Executive Director of Laboratório Central de Análises Universidade de Aveiro, Portugal
1982/12/01 - 1985/04/01	Trainee Researcher Laboratório Nacional de Engenharia e Tecnologia Industrial , Portugal

Projetos

Projeto

	Designação	Financiadores
2018/09/01 - 2021/08/31	Nanopartículas Multifuncionais para Quimiorradioterapia do Glioblastoma PTDC/MED-QUI/29649/2017 Investigador Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento, Portugal Universidade da Beira Interior, Portugal Universidade do Porto Instituto de Patologia e Imunologia Molecular, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2013/06/01 - 2016/11/30	Sistemas Moleculares e Nano para Teranóstica de Cancro EXCL/QEQ-MED/0233/2012 Investigador Associação do Instituto Superior Técnico para a	Fundação para a Ciência e a Tecnologia, Portugal

Investigação e Desenvolvimento, Portugal
 Universidade de Lisboa Instituto Superior Técnico Campus
 Tecnológico e Nuclear, Portugal
 Universidade de Aveiro, Portugal
 Universidade de Coimbra, Portugal
 Instituto de Medicina Molecular, Portugal
 Universidade Nova de Lisboa Instituto de Tecnologia
 Química e Biológica, Portugal

2012/03/01 - 2015/08/31	<p>Avaliação pré-clínica de potenciais fármacos de Ruténio na terapia do cancro PTDC/QUI-QUI/118077/2010</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p>
	<p>Investigador Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal Universidade de Lisboa Faculdade de Ciências, Portugal Associação para a Investigação e Desenvolvimento da Faculdade de Medicina, Portugal Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento, Portugal</p>	
2011/04/04 - 2014/10/02	<p>Síntese e Avaliação Pré-Clínica de Complexos de Índio Derivados do Estradiol para Radioterapia Tumoral PTDC/QUI-QUI/111891/2009</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p>
	<p>Investigador Universidade de Lisboa Instituto Superior Técnico, Portugal Universidade de Coimbra, Portugal</p>	
2011/03/01 - 2014/02/28	<p>Síntese, Caracterização e Avaliação Biológica de Compostos Multifuncionais Osteotrópicos PTDC/QUI-QUI/115712/2009</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p>
	<p>Investigador Universidade de Lisboa Instituto Superior Técnico, Portugal Instituto de Medicina Molecular, Portugal</p>	
2010/01/01 - 2013/06/30	<p>Complexos de Ruténio para aplicação anti-tumoral PTDC/QUI-QUI/101187/2008</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p>
	<p>Investigador Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal Universidade de Lisboa Faculdade de Ciências, Portugal Universidade de Lisboa Instituto Superior Técnico, Portugal</p>	
2009/01/01 - 2012/10/31	<p>Estudos Químicos, Radioquímicos e Biológicos de Complexos de Pt (II) com Ligandos Pirazolo-Alquilamina: Aplicações no Desenvolvimento de Novos Agentes Anti-cancerígenos PTDC/QUI/66813/2006</p>	<p>Fundação para a Ciência e a Tecnologia, Portugal</p>
	<p>Investigador Universidade de Lisboa Instituto Superior Técnico, Portugal Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal</p>	

2008 - 2012	Chemical, Radiochemical and Biological Studies of Pyrazolyl-Alkylamine Pt(II) Complexes: Application on the Development of Novel Anti-cancer Drugs info:eu-repo/grantAgreement/FCT/3599-PPCDT/66813/PT Investigador Universidade de Lisboa Instituto Superior Técnico, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2005 - 2008	Novel estrogen receptor ligands as potential probes for targeted tumor imaging and therapy CIMAGO/FLAD/09/05 Investigador Universidade de Lisboa Instituto Superior Tecnico Campus Tecnológico e Nuclear, Portugal	Associação de Apoio ao Centro de Investigação em Meio Ambiente Genética e Oncobiologia, Portugal
2005/10/01 - 2007/12/31	Complexos Multifuncionais de Tecnécio e Gálio para Radioterapia Selectiva POCI/QUI/57632/2004 Investigador Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2002/03/01 - 2005	Radiopharmaceuticals for treatment of bone cancer pain and/or therapy based on macrocyclic lanthanide complexes. info:eu-repo/grantAgreement/FCT/POCI/35859/PT Investigador Instituto Tecnológico e Nuclear Departamento de Radioisótopos, Portugal	Universidade do Algarve Faculdade de Ciências e Tecnologia, Portugal
2002 - 2004	Quality of skin as a barrier to ultra-fine particles (NANODERM) EC shared COST RTD ACTION: QoL Investigador Instituto Tecnológico e Nuclear Departamento de Radioisótopos, Portugal	
2000/11/01 - 2003/11	Evaluation of the genotoxic and antiestrogenic potential of triphenylethylene derivatives and their metabolites info:eu-repo/grantAgreement/FCT/POCI/33544/PT Investigador Instituto Tecnológico e Nuclear Departamento de Radioisótopos, Portugal	Universidade do Algarve Faculdade de Ciências e Tecnologia, Portugal

Produções

Publicações

- Artigo em revista
- 1 Nunes, Patrique; Correia, Isabel; Cavaco, Isabel; Marques, Fernanda; Pinheiro, Teresa; Avecilla, Fernando; Pessoa, João Costa. "Therapeutic potential of vanadium complexes with 1,10-phenanthroline ligands, quo vadis? Fate of complexes in cell media and cancer cells". *Journal of Inorganic Biochemistry* 217 (2021): 111350. <http://dx.doi.org/10.1016/j.jinorgbio.2020.111350>.
10.1016/j.jinorgbio.2020.111350
 - 2 Ribeiro, Elisabete; Marques, Fernanda; Gano, Lurdes; Correia, João D.G.; Santos, Isabel; Fernandes, Célia. "Docetaxel-loaded block copolymer micelles labeled with ¹⁸⁸Re for combined radiochemotherapy". *Journal of Drug Delivery Science and Technology* 60 (2020): 101898. <http://dx.doi.org/10.1016/j.jddst.2020.101898>.
10.1016/j.jddst.2020.101898
 - 3 Marques, Fernanda. "Improved Antiproliferative Activity and Fluorescence of a Dinuclear Gold(I) Bisimidazolylidene Complex via Anthracene-Modification". *Chemistry – An Asian Journal* (2020): <http://dx.doi.org/10.1002/asia.202001104>.
10.1002/asia.202001104
 - 4 Atanu Banerjee; Subhashree P. Dash; Monalisa Mohanty; Gurunath Sahu; Giuseppe Sciortino; Eugenio Garribba; M. Fernanda N. N. Carvalho; et al. "New VIV, VIVO, VVO, and VVO₂ Systems: Exploring their Interconversion in Solution, Protein Interactions, and Cytotoxicity". *Inorganic Chemistry* (2020): <https://doi.org/10.1021/acs.inorgchem.0c01837>.
10.1021/acs.inorgchem.0c01837
 - 5 Marques, Fernanda. "Mechanisms underlying the cytotoxic activity of syn/anti-isomers of dinuclear Au(I) NHC complexes.". *European journal of medicinal chemistry* (2020): <https://doi.org/10.1016/j.ejmech.2020.112576>.
10.1016/j.ejmech.2020.112576
 - 6 Marques, Fernanda. "Copper Complexes with 1,10-Phenanthroline Derivatives: Underlying Factors Affecting Their Cytotoxicity". *Inorganic Chemistry* 59 13 (2020): 9116-9134. <http://dx.doi.org/10.1021/acs.inorgchem.0c00925>.
10.1021/acs.inorgchem.0c00925
 - 7 Marques, Fernanda. "Exploring the therapeutic potential of Cu(II)-complexes with ligands derived from pyridoxal". *Inorganica Chimica Acta* (2020): <http://dx.doi.org/10.1016/j.ica.2020.119558>.
10.1016/j.ica.2020.119558
 - 8 Marques, Fernanda. "Antiproliferative Activity of Functionalized Histidine derived Au(I) bis-NHC Complexes for Bioconjugation.". *Chemistry, an Asian journal* (2020): <https://doi.org/10.1002/asia.202000620>.
10.1002/asia.202000620
 - 9 Marques, Fernanda. "Biological properties of a new mixed lanthanide(III) complex incorporating a dypiridinium ylide". *Inorganica Chimica Acta* (2020): <http://dx.doi.org/10.1016/j.ica.2020.119517>.
10.1016/j.ica.2020.119517
 - 10 Busila, Mariana; Tabacaru, Aurel; Mussat, Viorica; Vasile, Bogdan Stefan; Neasu, Ionela Andreea; Pinheiro, Teresa; Roma-Rodrigues, Catarina; et al. "Size-Dependent Biological Activities of Fluorescent Organosilane-Modified Zinc Oxide Nanoparticles". *Journal of Biomedical Nanotechnology* 16 2 (2020): 137-152. <http://dx.doi.org/10.1166/jbn.2020.2882>.
10.1166/jbn.2020.2882
 - 11 Marques, Fernanda. "Dual Imaging Gold Nanoplatforms for Targeted Radiotheranostics". *Materials* 13 3 (2020): 513-513. <http://dx.doi.org/10.3390/ma13030513>.
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- 12 Marques, Fernanda. "On the path to gold: Monoanionic Au bisdithiolate complexes with antimicrobial and antitumor activities". *Journal of Inorganic Biochemistry* (2020): <http://dx.doi.org/10.1016/j.jinorgbio.2019.110904>.
10.1016/j.jinorgbio.2019.110904
- 13 Ricardo G. Teixeira; Fernanda Marques; M. Paula Robalo; Xavier Fontrodona; M. Helena Garcia; Simonetta Geninatti Crich; Clara Viñas; Andreia Valente. "Ruthenium carboranyl complexes with 2,2'-bipyridine derivatives for potential bimodal therapy application". *RSC Advances* (2020): <https://doi.org/10.1039/D0RA01522A>.
10.1039/D0RA01522A
- 14 João Franco Machado; Miguel Machuqueiro; Fernanda Marques; M. Paula Robalo; M. Fátima M. Piedade; M. Helena Garcia; João D. G. Correia; Tânia S. Morais. "Novel "ruthenium cyclopentadienyl" peptide conjugate complexes against human FGFR(+) breast cancer". *Dalton Transactions* (2020): <https://doi.org/10.1039/D0DT00955E>.
10.1039/D0DT00955E
- 15 João Franco Machado; Diogo Sequeira; Fernanda Marques; M. Fátima M. Piedade; Maria J. Villa de Brito; M. Helena Garcia; Alexandra R. Fernandes; Tânia S. Morais. "New copper(i) complexes selective for prostate cancer cells". *Dalton Transactions* (2020): <https://doi.org/10.1039/D0DT02157A>.
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- 16 Marques, Fernanda. "Gold(iii) bis(dithiolene) complexes: from molecular conductors to prospective anticancer, antimicrobial and antiplasmodial agents". *Metallomics* 12 6 (2020): 974-987. <http://dx.doi.org/10.1039/d0mt00064g>.
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- 17 Marques, Fernanda. "Antifungal, Antitumoral and Antioxidant Potential of the Danube Delta Nymphaea alba Extracts". *Antibiotics* (2019): <http://dx.doi.org/10.3390/antibiotics9010007>.
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- 18 Marques, Fernanda. "Pt-Fe ferrocenyl compounds with hydroxyquinoline ligands show selective cytotoxicity on highly proliferative cells". *Journal of Inorganic Biochemistry* (2019): <http://dx.doi.org/10.1016/j.jinorgbio.2019.110779>.
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- 19 Marques, Fernanda. "Antimicrobial Activity of Silver Camphorimine Complexes against Candida Strains". *Antibiotics* (2019): <http://dx.doi.org/10.3390/antibiotics8030144>.
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- 20 Marques, Fernanda. "Exploring the cytotoxic activity of new phenanthroline salicylaldimine Zn(II) complexes". *Journal of Inorganic Biochemistry* (2019): <http://dx.doi.org/10.1016/j.jinorgbio.2019.110727>.
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- 21 Marques, Fernanda. "Interaction with Blood Proteins of a Ruthenium(II) Nitrofuryl Semicarbazone Complex: Effect on the Antitumoral Activity". *Molecules* (2019): <http://dx.doi.org/10.3390/molecules24162861>.
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- 22 Marques, Fernanda. "Ruthenium–Cyclopentadienyl Bipyridine–Biotin Based Compounds: Synthesis and Biological Effect". *Inorganic Chemistry* (2019): <http://dx.doi.org/10.1021/acs.inorgchem.9b00735>.
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- 23 Marques, Fernanda. "Lanthanide complexes with phenanthroline-based ligands: insights into cell death mechanisms obtained by microscopy techniques.". *Dalton transactions (Cambridge, England : 2003)* (2019): <https://doi.org/10.1039/c9dt00640k>.
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- 24 Marques, Fernanda. "Antitumour and Toxicity Evaluation of a Ru(II)-Cyclopentadienyl Complex in a Prostate Cancer Model by Imaging Tools.". *Anti-cancer agents in medicinal chemistry* (2019): <https://doi.org/10.2174/1871520619666190318152726>.
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- 25 Marques, Fernanda. "Polymer "ruthenium-cyclopentadienyl" conjugates - New emerging anti-cancer drugs.". *European journal of medicinal chemistry* (2019): <https://doi.org/10.1016/j.ejmech.2019.02.061>.
10.1016/j.ejmech.2019.02.061
- 26 Catarina Bravo; M. Paula Robalo; Fernanda Marques; Alexandra R. Fernandes; Diogo A. Sequeira; M. Fátima M. Piedade; M. Helena Garcia; Maria J. Villa de Brito; Tânia S. Morais. "First heterobimetallic Cu(i)-dppf complexes designed for anticancer applications: synthesis, structural characterization and cytotoxicity". *New Journal of Chemistry* (2019): <https://doi.org/10.1039/C9NJ02068C>.
10.1039/C9NJ02068C
- 27 Marques, Fernanda. "Unprecedented inhibition of P-gp activity by a novel ruthenium-cyclopentadienyl compound bearing a bipyridine-biotin ligand.". *European journal of medicinal chemistry* (2018): <https://doi.org/10.1016/j.ejmech.2018.12.022>.
10.1016/j.ejmech.2018.12.022
- 28 Isabel Fuentes; Tania García-Mendiola; Shinichi Sato; Marcos Pita; Hiroyuki Nakamura; Encarnación Lorenzo; Francesc Teixidor; Fernanda Marques; Clara Viñas. "Metallacarboranes on the Road to Anticancer Therapies: Cellular Uptake, DNA Interaction, and Biological Evaluation of Cobaltabisdicarbollide [COSAN]-". *Chemistry - A European Journal* 24 65 (2018): 17239-17254. <https://doi.org/10.1002/chem.201803178>.
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- 29 Isabel Fuentes; Tania García-Mendiola; Shinichi Sato; Marcos Pita; Hiroyuki Nakamura; Encarnación Lorenzo; Francesc Teixidor; Fernanda Marques; Clara Viñas. "Frontispiece: Metallacarboranes on the Road to Anticancer Therapies: Cellular Uptake, DNA Interaction, and Biological Evaluation of Cobaltabisdicarbollide [COSAN]-". *Chemistry - A European Journal* 24 65 (2018): <https://doi.org/10.1002/chem.201886564>.
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- 30 M. Fernanda N.N. Carvalho; Ana M. Botelho do Rego; Adelino M. Galvão; Rudolf Herrmann; Fernanda Marques. "Search for cytotoxic compounds against ovarian cancer cells: Synthesis, characterization and assessment of the activity of new camphor carboxylate and camphor carboxamide silver complexes". *Journal of Inorganic Biochemistry* 188 (2018): 88-95. <https://doi.org/10.1016/j.jinorgbio.2018.08.011>.
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- 31 Marques, Fernanda. "Photophysical properties and biological evaluation of a Zinc(II)-5-methyl-1H-pyrazole Schiff base complex". *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (2018): <http://dx.doi.org/10.1016/j.saa.2018.06.028>.
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- 32 Marques, Fernanda. "Ru(II) (p-cymene) Compounds as Effective and Selective Anticancer Candidates with No Toxicity in Vivo.". *Inorganic chemistry* (2018): <https://doi.org/10.1021/acs.inorgchem.8b01270>.
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- 33 Marques, Fernanda. "Synthesis, characterization and antitumor activity of two new dipyridinium ylide based lanthanide(III) complexes". *Inorganica Chimica Acta* (2018): <http://dx.doi.org/10.1016/j.ica.2018.05.003>.
10.1016/j.ica.2018.05.003
- 34 Marques, Fernanda. "Methyl-cyclopentadienyl Ruthenium Compounds with 2,2'-Bipyridine Derivatives Display Strong Anticancer Activity and Multidrug Resistance Potential". *Inorganic Chemistry* (2018): <http://dx.doi.org/10.1021/acs.inorgchem.8b00358>.
10.1021/acs.inorgchem.8b00358
- 35 Tânia S. Morais; Yann Jousseume; M. Fátima M. Piedade; Catarina Roma-Rodrigues; Alexandra R. Fernandes; Fernanda Marques; Maria J. Villa de Brito; M. Helena Garcia. "Important cytotoxic and cytostatic effects of new copper(I)-phosphane compounds with N,N, N,O and N,S bidentate ligands". *Dalton Transactions* 47 23 (2018): 7819-7829. <https://doi.org/10.1039/C8DT01653D>.
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- 36 Marques, Fernanda. "Heteroleptic oxidovanadium(IV) complexes of 2-hydroxynaphthylaldimine and polypyridyl ligands against *Trypanosoma cruzi* and prostate cancer cells". *Journal Inorganic Biochemistry* (2017):
- 37 Marques, Fernanda. "New Cu(II) complexes with pyrazolyl derived Schiff base ligands: Synthesis and biological evaluation". *Journal Inorganic Biochemistry* (2017):
- 38 Marques, Fernanda. "Interaction of [VIVO(acac)₂] with Human Serum Transferrin and Albumin". *Chem Asian J* (2017):
- 39 Marques, Fernanda. "A Multifunctional Radiotheranostic Agent for Dual Targeting of Breast Cancer Cells". *ChemMedChem* (2017):
- 40 Marques, Fernanda. "Dinuclear Ru(II)(bipy)₂ Derivatives: Structural, Biological, and in Vivo Zebrafish Toxicity Evaluation". *Inorganic Chemistry* (2017):
- 41 Marques, Fernanda. "New copper(I) and heteronuclear copper(I)-ruthenium(II) complexes: Synthesis, structural characterization and cytotoxicity". *J Inorg Biochem* (2017):
- 42 Marques, Fernanda. "Ultrastructural features of cells following incubation with metal complexes using phenanthroline-based ligands: The influence of the metal center". *Ultrastructural Pathology* (2017):
- 43 Marques, Fernanda. "Synthesis and Biological Evaluation of Novel 2-Aryl Benzimidazoles as Chemotherapeutic Agents". *J Heterocyclic Chem* (2017): <http://onlinelibrary.wiley.com/doi/10.1002/jhet.2575/epdf>.

- 44 Marques, Fernanda. "BODIPY-17 α -ethynylestradiol conjugates: Synthesis, fluorescence properties and receptor binding affinities". *Bioorg Med Chem Lett* (2017): <http://www.sciencedirect.com/science/article/pii/S0960894X16313269>.
- 45 Marques, Fernanda. "Evaluation of cellular uptake, cytotoxicity and cellular ultrastructural effects of heteroleptic oxidovanadium(IV) complexes of salicylaldimines and polypyridyl ligands". *J Inorg Biochem* (2017): <http://www.sciencedirect.com/science/article/pii/S0162013416303804>.
- 46 Marques, Fernanda. "In vitro and in vivo trackable titanocene-based complexes using optical imaging or SPECT". *Dalton Trans* (2017):
- 47 Marques, Fernanda. "In Vivo Performance of a Ruthenium-cyclopentadienyl Compound in an Orthotopic Triple Negative Breast Cancer Model". *Anticancer Agents Med Chem* (2017): <http://www.eurekaselect.com/145730/article>.
- 48 Océane Florès; Audrey Trommenschlager; Souheila Amor; Fernanda Marques; Francisco Silva; Lurdes Gano; Franck Denat; et al. "In vitro and in vivo trackable titanocene-based complexes using optical imaging or SPECT". *Dalton Transactions* 46 42 (2017): 14548-14555. <https://doi.org/10.1039/C7DT01981E>.
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- 49 Marques, Fernanda. "Unraveling the mode of action of new promising polymer-ruthenium conjugates". *Ultrastruct Pathol* (2017): <http://www.tandfonline.com/doi/abs/10.1080/01913123.2016.1272669?journalCode=iusp20>.
- 50 Marques, Fernanda. "Studies on the mechanism of action of antitumor bis (aminophenolate) ruthenium(III) complexes". *J Inorg Biochem* (2017): <http://www.sciencedirect.com/science/article/pii/S0162013416304998>.
- 51 Marques, Fernanda. "Coordination ability and biological activity of a naringenin thiosemicarbazone". (2016): <http://www.sciencedirect.com/science/article/pii/S016201341630277X>.
- 52 Marques, Fernanda. "Tracking antitumor metallodrugs: promising agents with the Ru(II)- and Fe(II)-cyclopentadienyl scaffolds". *Future Med Chem* (2016):
- 53 Marques, Fernanda. "Synthesis of Ag(I) camphor sulphonylimine complexes and assessment of their cytotoxic properties against cisplatin-resistant A2780cisR and A2780 cell lines". *J Inorg Biochem* (2016): <http://www.sciencedirect.com/science/article/pii/S0162013416303749>.
- 54 Marques, Fernanda. "Radiolabeled block copolymer micelles for image-guided drug delivery". *Int J Pharm* (2016): <http://www.sciencedirect.com/science/article/pii/S0378517316310559>.
- 55 Marques, Fernanda. "Novel (188)Re multi-functional bone-seeking compounds: Synthesis, biological and radiotoxic effects in metastatic breast cancer cells". *Nucl Med Biol* (2016):

- 56 Marques, Fernanda. "Heteroleptic mononuclear compounds of ruthenium(II): synthesis, structural analyses, in vitro antitumor activity and in vivo toxicity on zebrafish embryos". *Dalton Trans* (2016): <http://pubs.rsc.org/en/content/articlepdf/2016/dt/c6dt03591d>.
- 57 Marques, Fernanda. "Vanadium(IV) and copper(II) complexes of salicylaldehydes and aromatic heterocycles: cytotoxicity, DNA binding and DNA cleavage properties". *J Inorg Biochem* (2015):
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Tese / Dissertação 1 Marques, Fernanda. "Contribuição para o estudo de fenómenos redox na membrana citoplasmática modificados pelas catecolaminas". Doutoramento, Universidade de Lisboa Faculdade de Ciências, 1993.

Atividades

Apresentação oral de trabalho

	Título da apresentação	Nome do evento Anfitrião (Local do evento)
2018/12	Carboranyl-containing acridone derivatives with dual application in boron neutron capture therapy and photodynamic therapy: biological studies in human glioblastoma cells	PBSi International Conference on phosphorus, Boron and Silicon (Barcelona, Espanha)
2018/12	Metallocarboranes with dual application in boron neutron capture therapy and radiation therapy: biological studies in human glioblastoma cells	PBSi International Conference on Phosphorus, Boron and Silicon (Barcelona, Espanha)
2015/09	Bis(phosphonate)-containing ^{99m} Tc/ ¹⁸⁸ Re organometallic complexes for theranostic applications	COST TD1004 Final Annual Meeting Serbian Academy of Sciences and Arts (Belgrade, Sérvia)
2014	Ruthenium-based anticancer compounds: insights into their uptake mechanisms and cellular targets	4th World Congress on Cancer Science & Therapy, Chicago, USA (Chicago, Estados Unidos)
2013	Novel pathways for anticancer therapy: the role of golgi network in the mechanism of cell death of organometallic complexes	MFS2013-Microscopy at the Frontiers of Science (Tarragona, Espanha)

Orientação

	Título/Tema Papel desempenhado	Curso (Tipo) Instituição / Organização
2020/06 - Atual	Steroid-BODIPY Theranostics: Receptor-mediated cell uptake and applications in cancer diagnostic and therapy Coorientador	Universidade Nova de Lisboa, Portugal
2020 - Atual	Evaluation of the Radiosensitizing Capabilities of Target-Specific Gold Nanoparticles (AuNPs) in the Radiotherapy of Glioblastoma Orientador	Science in Energy and Nuclear Engineering (Mestrado) Politecnico di Torino, Itália
2016 - 2016	Síntese de novos complexos de ruténio para tratamento dos adenomas da hipófise Coorientador	Química (Mestrado) Universidade de Lisboa Faculdade de Ciências, Portugal
2012 - 2012	Complexos de Ruténio como potenciais agentes terapêuticos: estudos dos mecanismos de captação celular e modulação de enzimas metabólicos Orientador de Leonor de Sá Nogueira Côrte-Real	Química Inorgânica Biomédica: Aplicações em Diagnóstico e Terapia (Mestrado) Universidade de Lisboa Faculdade de Ciências, Portugal

Participação em evento

	Descrição da atividade Tipo de evento	Nome do evento Instituição / Organização
2000 - 2020	Synthesis and evaluation of C-7 substituted estra-1,3,5(10),6 tetraenes as diagnostica for estrogen positive human breast cancer Encontro	78th Annual Spring Meeting of the Chemical Society of Japan Koeki Shadan Hojin Nihon Seikagakukai, Japão
2019/08 - 2019/08	Pt-Fe heterobimetallic ferrocenyl derivatives show cytotoxicity on highly proliferative cells Congresso	19Th International Congress on Biological Inorganic Chemistry
2019/06/04 - 2019/06/06	Modification of ZnO nanoparticles with silanes enables their application as anticancer agents Congresso	4th International Congress of CiiEM Centro de Investigação Interdisciplinar Egas Moniz, Portugal
2019/06 - 2019/06	Gold(III) bisdithiolate complexes: molecular conductors that also exhibit anticancer and antimicrobial activities Congresso	4th International Congress of CiiEM Centro de Investigação Interdisciplinar Egas Moniz, Portugal

2018/06 - 2018/06	Cellular ultrastructural studies and biological effects of copper complexes of phenanthroline derivatives Congresso	3th International Congress of CiiEM Centro de Investigação Interdisciplinar Egas Moniz, Portugal
2016/04 - 2016/04	Bodipy-estradiol conjugates as multi-modality tumor imaging agents Congresso	18th European Symposium on Radiopharmacy and Radiopharmaceuticals
2015/12 - 2015/12	Heteroleptic oxidovanadium(IV) complexes of salicylaldimines and polypyridyl ligands: cytotoxicity and mechanism of action Congresso	1st International Symposium on Clinical and Experimental Metallodrugs in Medicine: Cancer chemotherapy
2015/11/02 - 2015/11/04	On the mode of action of new promising anticancer agents: multifunctional polymer-ruthenium conjugates Conferência	4th International Conference on Medicinal Chemistry & Computer Aided Drug Design
2015/11 - 2015/11	Microscopic analysis of the antitumor effects of ruthenium complexes in a prostate cancer model Congresso	1st International Congress of CiiEM Centro de Investigação Interdisciplinar Egas Moniz, Portugal
2015/08 - 2015/08	Multifunctional polymer-ruthenium cyclopentadienyl complexes: applications as anticancer agents for photodynamic therapy Congresso	16th Congress of the European Society for Photobiology
2015/07 - 2015/07	Synthesis and biological evaluation of new carboranyl-methyl-benzo(b)acridones as novel agents for boron neutron capture therapy Congresso	Molecular and Supramolecular Carriers for Imaging and Therapy
2015/07 - 2015/07	Block copolymer micelles for cancer therapy Conferência	Trace and Treat Conference on Molecular and Supramolecular Carriers for Imaging and Therapy Technische Universiteit Delft, Países Baixos
2015/06 - 2015/06	Zn(II) salGly)(phenanthroline) complexes-synthesis, characterization and cytotoxicity Congresso	International Symposia on Metal Complexes -ISMEC
2014 - 2014	Block copolymer micelles for cancer therapy Congresso	XVIII Congress of the Portuguese Biochemical Society

2013 - 2013	111-In-DOTAGA-estradiol based complexes with binding affinity for the estrogen receptor Encontro	1st Symposium on Medicinal Chemistry
2013 - 2013	Interaction with proteins and antitumoral activity of a ruthenium semicarbazone complex Encontro	12th International Symposium on metal ions in biology and medicine
2013 - 2013	Cyclopentadienyl ruthenium (macro) metallodrugs: large spectrum antitumor agents Congresso	Drug Discovery & therapy World Congress
2013 - 2013	Searching for gallium(III) bioactive compounds: a new gallium(III) complexes as prospective anti-tumoral and anti-trypanosome cruzi compound Simpósio	12th International Symposium on Metal Ions in Biology and Medicine
2013 - 2013	Cyclopentadienyl ruthenium (macro) metallodrugs: large spectrum antitumor agents Congresso	Drug Discovery & Therapy World Congress
2012 - 2012	Organoruthenium binuclear thiosemicarbazone complexes as potential antitumor agents Encontro	international Symposium on Metal Complexes-ISMEC
2012 - 2012	New polydentate Ru(III)-salan complexes: synthesis, characterization, antitumor activity and interaction with human serum proteins Simpósio	ISMEC-2012 International Symposium on Metal Complexes
2012 - 2012	Promising organometallic ruthenium metallodrugs: (RuII(eta(5)-Cp)(bpy)(PPh3)+, a large spectrum antitumor agent Encontro	3º Encontro Nacional de Química Terapêutica da Sociedade Portuguesa de Química Sociedade Portuguesa de Química, Portugal
2012 - 2012	Intracellular distribution of antitumor Ru(II) compounds: the lysosome and the lysosomal enzymes as targets for anticancer metal-based drugs Congresso	XLVI Congress of the Portuguese Society for Microscopy (SPMicros)
2012 - 2012	New polydentate Ru(III)-salan complexes : synthesis, characterization, antitumor activity and interaction with human serum proteins	International Symposium on Metal Complexes (ISMEC 2012)

Simpósio

2011 - 2011	New ruthenium(II) polypyridyl complexes as potential antitumor agents: synthesis , characterization and antiproliferative activity Conferência	4th European Conference on Chemistry for Life Sciences (4ECCLS)
2011 - 2011	New Ruthenium tridentate amino-phenolate complexes: characterization and study of their biological activity Encontro	11th International Symposium on Applied Bioinorganic Chemistry (ISABC 11)
2011 - 2011	A promising large spectrum antitumor ruthenium agent: interaction with serum proteins and mechanisms of cell death Conferência	4th European Conference on Chemistry for Life Sciences (4ECCLS)
2011 - 2011	Synthesis and cytotoxicity of new ruthenium(II) complexes for antitumor application Encontro	XXII Encontro Nacional da Sociedade Portuguesa de Química Sociedade Portuguesa de Química, Portugal
2010/09 - 2010/09	Novel estradiol based metal complexes of TC-99m for breast cancer Encontro	International Symposium on Technetium and Other Radiometals in Chemistry and Medicine
2010 - 2010	New Pt(II) complexes with bidentate and tridentate pyrazolyl-containing chelators: synthesis, structural studies and in vitro antitumor activity Conferência	EUROBIC 10
2010 - 2010	Trifunctional tricarbonyl complexes for cell-specific and nuclear targeting Conferência	TERACHEM 2010
2010 - 2010	New (99m-Tc(CO) ₃) ⁺ -labelled bombesin conjugates bearing an acridine orange moiety for diagnosis and/or therapy of cancer Encontro	EPI XII-Iberian Peptide Meeting
2010 - 2010	New (99mTc(CO) ₃) ⁺ labeled bombesin conjugates bearing an acridine orange moiety for diagnosis and/or therapy of cancer Encontro	EPI XII Iberian Peptide Meeting

2009/09 - 2009/09	Estradiol based metal complexes for breast cancer diagnosis Encontro	10th International Symposium on Applied Bioinorganic Chemistry
2009 - 2009	Platinum(II) complexes with pyrazolyl-diamine chelators bearing DNA-binding groups Encontro	COST ACTION D39 - Metallo-Drug Design and Action
2009 - 2009	Copper(II) complexes fo pyrazole-salen ligands: synthesis, characterization, DNA-binding properties and cytotoxicity Encontro	FIGIPAS 10th International Meeting in Inorganic Chemistry
2009 - 2009	Estradiol based metal complexes for breast cancer diagnosis Encontro	10th International Symposium on Applied Bioinorganic Chemistry
2008 - 2008	Tricarbonyl complexes containing acridine fluorophores for multimodal imaging Congresso	World Molecular Imaging Congress
2008 - 2008	Novel radioiodinated estradiols as potential imaging agents for estrogen breast tumors Congresso	World Molecular Imaging Congress
2008 - 2008	Novel estra-1,3,5(10),6(7)-tetraen-3,17 (beta)diols as potential radioligands for the estrogen receptor Conferência	10th Eurasia Conference of Chemical Sciences (EuAs C2S-10)
2007 - 2007	Synthesis, structural characterization and biological studies of homoleptic gallium(III) complexes with novel tridentate (N,N´O) chelators Congresso	Congresso de Química Inorgânica da SPQ Sociedade Portuguesa de Química, Portugal
2007 - 2007	Synthesis, characterization and cytotoxic activity of Ga(III) complexes with asymmetric pyrazolyl-containing chelators Conferência	13th International Conference on Biological Inorganic Chemistry
2007 - 2007	Chemical and biological evaluation of ¹⁵³ Sm and ¹⁶⁶ Ho complexes with tetraethylester of DOTP Encontro	7th international Symposium on Radiopharmaceutical Sciences

2006 - 2006	Ring annelated estranes as potential cancer diagnostic agents Encontro	8th Cross-Straits Symposium in Pusan
2006 - 2006	Radiolanthanide macrocyclic complexes as bone seeking agents: synthesis and biological evaluation Encontro	Medicinal Chemistry in the 21th Century
2006 - 2006	Radiolanthanide complexes with a novel bis(methylphosphonate) tetraazamacrocycle Encontro	9th International Symposium on Metal ions in Biology and Medicine
2006 - 2006	Synthetic estrane derived steroids as potential radiodiagnostics and drug delivery systems for minimal breast cancer Encontro	The Fukuoka Symposium - New Horizons in Natural Products and Biological Chemistries
2006 - 2006	Radiolanthanide complexes with tetraazamacrocycles bearing methylphosphonate pendant arms as bone seeking agents Simpósio	13th European Symposium on Radiopharmacy and Radiopharmaceuticals
2006 - 2006	Mixed tetraazamacrocycles with phosphonate pendant arms: the influence of the number of phosphonate arms on the radiochemical and biological behaviour of their ^{153}Sm and ^{166}Ho complexes Simpósio	7th International Symposium on Technetium in Chemistry and Nuclear Medicine
2006 - 2006	^{153}Sm and ^{166}Ho complexes with mixed tetraazamacrocycles: effect of the number of phosphonate pendant arms on bone targeting Oficina (workshop)	COST Action D18, Lanthanide Chemistry for Diagnosis and Therapy
2005 - 2005	Biological evaluation of ^{153}Sm and ^{166}Ho complexes with macrocyclic ligands containing acetate pendant arms as potential agents for therapy Encontro	International Symposium on Trends in Radiopharmaceuticals (ISTR-2005)
2004 - 2004	Radiopharmaceuticals for targeted therapy: synthesis, radiolabelling and biological evaluation Congresso	ICRS-10 RPS 2004, 21th Century Challenges in Radiation Protection and Shielding

2004 - 2004	In vitro and in vivo evaluation of ^{153}Sm and ^{166}Ho complexes with tetraazamacrocycles, effect of the incorporation of a pyridine head Oficina (workshop)	COST Action D18, Lanthanides in Therapy: Particle Emitting Radiolanthanides and Stable Lanthanides with Radiation Induced by External Irradiation
2003 - 2003	Lanthanide complexes with 13-14-membered tetraazamacrocycles Encontro	7th FIGIPS Meeting in Inorganic Chemistry
2003 - 2003	Evaluation of radiolanthanide complexes as potential therapeutic agents Encontro	1º Workshop em Bioquímica Clínica
2003 - 2003	In vitro and in vivo evaluation of ^{153}Sm and ^{166}Ho complexes with macrocycles Simpósio	11th European Symposium on Radiopharmacy and Radiopharmaceuticals
2002 - 2002	Complexação de $^{153}\text{-Sm}$ com macrociclos do tipo tetraaza Encontro	18º Encontro Nacional da Sociedade Portuguesa de Química
2002 - 2002	Novel estrone compounds for radiolabeling Encontro	4st Cross Straits Symposium
2002 - 2002	Lanthanide macrocyclic complexes: radiochemical and chemical studies Conferência	35th International Conference on Coordination Chemistry-ICCC 35
2002 - 2002	Composites peptides-steroids/alkaloids derived from estrones Conferência	ORCHEM 2002
2000 - 2000	C-7 substituted estra-1,3,5(10),6-tetraenes as new radioligands for the estrogen receptor ER alpha as potential diagnostic tools for human breast cancer Encontro	11Th International Symposium on Supramolecular Chemistry
1999 - 1999	New radioligands for the estrogen receptor ER alpha as potential diagnostic tools for human breast cancer Encontro	1st Cross straits Symposium
1999 - 1999	Novel $^{186}\text{-Re}$ complexes prepared using the irradiation conditions available at RPI. Synthesis, characterization and	International Symposium on Research Reactor Utilization, Safety and Management

evaluation of their stability

Encontro

1998 - 1998	Modulation of NADH ferricyanide reductase and phosphotyrosine phosphatase by high glucose levels Congresso	11º Congresso Nacional de Bioquímica
1998 - 1998	Receptor phosphorylation as an important signal for activation of a NADH dehydrogenase in human erythrocytes by insulin Congresso	4th European Congress of Endocrinology
1998 - 1998	Activation of a NADH ferricyanide reductase in the human erythrocytes is mediated by phosphorylation reactions Conferência	International Conference on Plasma Membrane Redox Systems
1997 - 1997	Proposta para valores de consenso para 87-Sr/86-Sr em carbonatos de estrôncio NBS-987 e SrN (E&A) Congresso	4º Congresso de Geoquímica dos Países de Língua Portuguesa
1997 - 1997	Activação do sistema enzimático redox transmembranar dos eritrócitos humanos por agonistas beta adrenérgicos Encontro	Reunião da Sociedade Portuguesa de Endocrinologia, Diabetes e Metabolismo
1996 - 1996	Regulation of a NADH dehydrogenase in the human erythrocytes by beta-adrenergic agonists Conferência	Oxidative Stress and Redox Regulation: Cellular Signalling, Aids, Cancer and other Diseases Institut Pasteur, França
1995 - 1995	Metal ion requirement for DNA strand breakage by H ₂ O ₂ in human leukocytes Congresso	2º Congresso de Radicais Livres em Química Universidade do Porto Faculdade de Ciências, Portugal
1993 - 1993	Control of plasma membrane oxidoreductase in the human erythrocytes by hGH and insulin Congresso	3rd European Congress of Endocrinology
1993 - 1993	Hormone control of NADH ferricyanide reductase activity in the human erythrocytes Congresso	IX Congresso Nacional de Bioquímica
1993 - 1993	Somatotrophin effect on a transmembrane oxidoreductase system of the human erythrocytes	6th Meeting of the European Neuroendocrine Association

Encontro

1993 - 1993	Geração de quinonas, semiquinonas e espécies activas de oxigénio durante oxidação da adrenalina pelas membranas do eritrócito humano Congresso	Congresso de Radicais Livres em Química, Biologia e Medicina
1992 - 1992	Transplasma membrane redox mechanism in the human erythrocytes activated by catecholamines Congresso	I Congresso Nacional de Neurociências
1992 - 1992	Sistema redox transmembranar, transdução hormonal e envelhecimento Encontro	VII Encontro sobre Envelhecimento Cerebral e Demências
1991 - 1991	Can a transmembranar redox system be a catecholamine transducing mechanism? Congresso	IV Portuguese-Spanish Biochemistry Congress
1989 - 1989	Systema redox transmembranar no coração de rã e sua regulação por modificadores de sistemas de transporte catiónicos Encontro	X Reunião Nacional da Sociedade Portuguesa de Fisiologia
1989 - 1989	Sistema redox transmembranar, ferro e envelhecimento do sistema nervoso Encontro	IV Encontro sobre Envelhecimento do Sistema Nervoso e Demências
1988 - 1988	Transplasma membrane redox system (ferricyanide reductase) in the blood red cells and free radicals of oxygen Congresso	III Portuguese-Spanish Biochemistry Congress
1988 - 1988	Possível papel das proteínas G no controlo das oxidoreductases do NADH da membrana celular Encontro	III Sessão Ordinária da Sociedade Portuguesa de Biologia
1988 - 1988	Ferricianeto reductase no coração de rã Encontro	IX Reunião da Sociedade Portuguesa de Fisiologia
1988 - 1988	Transferrin iron reductase, free radicals and aging Encontro	III Meeting on Aging Nervous System and Dementia

1988 - 1988	Transplasma membrane redox system in erythrocyte ghosts Oficina (workshop)	NATO Advanced Workshop on Plasma Membrane Oxidoreductases in Control of Animal and Plant Growth
1988 - 1988	Sistema redox transmembranar no coração de rã: papel do cálcio e pH Encontro	II Sessão Ordinária da Sociedade Portuguesa de Biologia
1987 - 1987	Diaforase (fericianeto reductase) do glóbulo vermelho Congresso	VIII Congresso Nacional de Bioquímica
1987 - 1987	Doseamento directo de cortisol no soro por radioimunoensaio Congresso	IV Congresso Nacional de Medicina Nuclear
1986 - 1986	Constante de afinidade de um anticorpo, parâmetro importante para o desenvolvimento de um kit Encontro	Reunião Científica da Sociedade Portuguesa de Medicina Nuclear
1985 - 1985	Estudo da Ligação a uma fase sólida de alguns anti-T3 Congresso	III Congresso Nacional de Medicina Nuclear
1983 - 1983	Estudo comparativo entre ^{198}Au e ^{109}Pd na forma de soluções coloidais Congresso	II Congresso Nacional de Medicina Nuclear

Júri de grau académico

	Tema Tipo de participação	Nome do candidato (Tipo de grau) Instituição / Organização
2017/06/23	Carboranylphosphinic acids: A new class of Purely Inorganic Ligands to generate Polynuclear Compounds and Multifunctional Nanohybrids Materials for Biomedical Applications Arguente	Elena Oleshkevich (Doutoramento) Institut de Ciència de Materials de Barcelona, Espanha
2017/05/03	The effect of bone collagen fragments on breast and prostate cancer Arguente	Bárbara Franco Andrade Góis (Mestrado) Universidade de Lisboa Instituto Superior Técnico, Portugal

Arbitragem científica em revista

	Nome da revista (ISSN)	Editora
2019 - 2019	Journal of Inorganic Biochemistry	

2018 - 2018	Boron-Based Compounds: Potential and Emerging Applications in Medicine (book)	Wiley Online Library
2017 - 2017	Journal of Inorganic Biochemistry (0162-0134)	Elsevier
2015 - 2015	Bioorganic & Medicinal Chemistry (0968-0896)	Elsevier
2015 - 2015	Bioorganic & Medicinal Chemistry (0968-0896)	Elsevier
2014 - 2014	Molecules (1420-3049)	MDPI AG
2014 - 2014	JBIC Journal of Biological Inorganic Chemistry (1432-1327)	Springer-Verlag
2014 - 2014	International Journal of Molecular Sciences	MDPI

Curso / Disciplina lecionado

	Disciplina	Curso (Tipo)	Instituição / Organização
2017/06/19 - 2017/06/22	Materials for Biomedical Applications: "in vitro" evaluation	International Summer School on Materials for Biomedical Application (MATBIO2017)	Institut de Ciència de Materials de Barcelona, Espanha
2004 - 2011	Interação da radiação com a matéria e deteção da radiação; Radiobiologia, efeitos biológicos das radiações.	Química Inorgânica Biomédica: Aplicações em Diagnóstico e Terapia	Universidade de Lisboa Faculdade de Ciências, Portugal
2001 - 2011	Radiolabeling techniques	(Licenciatura)	Instituto Tecnológico e Nuclear Departamento de Radioisótopos, Portugal
2009/10 - 2009/10	Radioimunoensaios	Proteção Radiológica em Laboratórios de Radioimunoensaio (Curso de Especialização Tecnológica)	Hospital Garcia de Orta EPE, Portugal
2003/02/10 - 2003/02/14	Desenvolvimento de complexos radioactivos como potenciais agentes terapêuticos	(Licenciatura)	Instituto Tecnológico e Nuclear Departamento de Radioisótopos, Portugal

Distinções

Outra distinção

2013 Best poster prize

1997 Ernesto Roma-Boehringer Mannheim
F Hoffmann-La Roche AG, Suíça
