

CURRICULUM VITAE

Tânia Sofia Ferreira Morais



Present Titles and Affiliation

Junior researcher (CEECIND2017) at Centro de Química Estrutural, Faculdade de Ciências da Universidade de Lisboa.

Co-coordinator of 1st in Chemistry of Faculdade de Ciências da Universidade de Lisboa.

Assistant Professor at Faculdade de Ciências da Universidade de Lisboa.

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Research Focus and Expertise Areas

Research Focus

My research interests are mainly focused in the design and development of new organic, inorganic and organometallic drugs put in perspective for applications in healthcare. Currently I am involved in the design and synthesis of new ruthenium(II/III), iron(II) and copper(I) complexes containing targeting molecules (e.g. peptides, carbohydrates, biomolecules) in their structure for the selective inhibition of the growth of cancer cells and metastases. Also, I am interested in the evaluation of the studied compounds as potential drugs and interaction studies with biomolecules (DNA, serum proteins, enzymes).

Scientific and Technical Expertise

- Synthesis and characterization of new organic, inorganic and organometallic compounds for different applications, such as pharmaceutical applications (antitumoral, anti-leishmanicidal and antiparasitic agents) and non-linear optics (NLO);
- Peptide synthesis (automated and manual) and characterization;
- X-ray of single crystals diffraction;

- Handling air-sensitive compounds under inert atmosphere using Schlenk techniques;
- Interaction studies of complexes with proteins, DNA and other biomolecules;
- Purification techniques, such as, recrystallizations and chromatography (Column, preparative in layer, preparative HPLC);
- Spectroscopic techniques, such as NMR (^1H , ^{13}C , ^{31}P , COSY, NOESY, HMQC/HSQC, HMBC, DEPT), Ultraviolet and visible (UV-vis), Fourier Transform Infrared spectroscopy (FT-IR), Steady-state fluorescence;
- Chromatography and Analytical Techniques, like high performance liquid chromatography (HPLC), and high-performance liquid chromatography coupled to mass spectrometry (HPLC-MS)
- Electrochemical techniques by cyclic voltammetry for characterization and reactivity studies of complexes and interaction with proteins.

Education

- **2013**
December
Ph.D In Chemistry - Inorganic Chemistry
Thesis title: *“Synthesis of new ruthenium bio-organometallic complexes and evaluation of their anti-tumor properties”*
Supervisor: Prof. M. Helena Garcia, Profª Associada c/ Agregação, FCUL Faculdade de Ciências, Universidade de Lisboa (FCUL)
- **2008**
July
M. Sc. In Chemistry - Chemistry, health and nutrition
Thesis title: *“Synthesis and characterization of cytotoxic organometallic complexes derived from “RuCp” fragment and evaluation of their potential as antitumor agents”*
Supervisor: Prof. M. Helena Garcia, Profª Associada c/ Agregação, FCUL Faculdade de Ciências, Universidade de Lisboa (FCUL)
- **2007**
September
Graduated in Chemistry
Thesis title: *“Synthesis and characterization of Ru(II) and Fe(II) complexes with nitrogenous ligands. Preliminary study on their potential as antitumor agents”*
Supervisor: Prof. M. Helena Garcia, Profª Associada c/ Agregação, FCUL Faculdade de Ciências, Universidade de Lisboa (FCUL)

Academic Positions

- **2019, May**
to
present
(current position)
Junior Researcher (CEECIND2017 - Stimulus of Scientific Employment – Individual Support 2017 - FCT Programme)
Centro de Química Estrutural, Faculdade de Ciências da Universidade de Lisboa (CQE-FCUL).
Independent area of research: *“Ruthenium-peptide drugs: new bullets to fight breast cancer”*
- **2019, May**
to
present
(current position)
Assistant professor
Faculdade de Ciências da Universidade de Lisboa
- **2016, August**
to
2019, April
Invited assistant professor
Faculdade de Ciências da Universidade de Lisboa

- **2014**, March to **2019**, April

Post-doctoral fellow with *Fundação para a Ciência e Tecnologia* (FCT) grant: SFRH/BPD/93513/2013.
“Targeting tumors with innovative metal peptide complexes: improving efficacy in anticancer drugs”
 Centro de Química Estrutural (CQE), Faculdade de Ciências da Universidade de Lisboa, Supervisor: Prof. M. Helena Garcia (Prof^a Associada c/ Agregação) and Instituto de Medicina Molecular (IMM), Faculdade de Medicina da Universidade de Lisboa, Supervisor: Prof. Miguel Castanho (Prof. Catedrático).
 From September 2016 to present: 100% at CQE; March 2013 – August 2016: 30% at CQE + 70% at IMM
- **2015**, April to **2015**, October

Post-doctoral visitor researcher at *ProteoDesign Company/Barcelona Biomedical Research Park (PRBB)*, Barcelona, Spain under the project *IMPACT/RISE - Innovative peptides against cancer and pathogenic bacteria, with advances in science, biopharmaceutical drug development, product market targeting, training, and communication (Marie Skłodowska-Curie Actions, H2020-MSCA-RISE-2014)*; David Andreu Group: Automated and manual synthesis of peptides and Ru-peptides conjugates for cancer therapy. Characterization by HPLC, preparative HPLC and LC-MS.
- **2013**, December to **2014**, February

Researcher under the project *“Preclinical evaluation of ruthenium potential drugs for cancer therapy”*, FCT PTDC/QUI-QUI/118077/2010
 Coordinator: Prof. M. Helena Garcia
 Centro de Ciências Moleculares e Materiais, Faculdade de Ciências da Universidade de Lisboa.
- **2009**, November to **2013**, December

Ph.D Student with *Fundação para a Ciência e Tecnologia* (FCT) grant: SFRH/BD/ 45871/2008
“Evaluation of the potential anti-tumoral properties of new ruthenium bioorganometallic compounds”
 Supervisor: Prof. M. Helena Garcia
 Centro de Ciências Moleculares e Materiais, Faculdade de Ciências da Universidade de Lisboa
- **2009**, May to **2009**, October

Researcher under the project *“Synthesis of molecular and polymeric organometallic materials with non-linear optical properties”*, FCT PTDC/QUI/66148/2006
 Coordinator: Prof. M. Helena Garcia
 Centro de Ciências Moleculares e Materiais, Faculdade de Ciências da Universidade de Lisboa.
- **2008**, May to **2009**, April

Researcher under the project *“Design of copper, zinc or iron compounds with leishmanicidal activity”*, FCT PTDC/QUI/72656/2006
 Coordinator: Doctor João Paulo Madureira
 Centro de Ciências Moleculares e Materiais, Faculdade de Ciências da Universidade de Lisboa.

Management Positions / Appointments

- **2020**, June to **present**

Co-coordinator of the 1st cycle in Chemistry
 Faculdade de Ciências da Universidade de Lisboa (CQE-FCUL).

(current position)

- **2020, June** to **present** (current position) **Member of the Pedagogic Committee** of the 1st cycle in Chemistry Faculdade de Ciências da Universidade de Lisboa

Entrepreneurship

The research work and good results obtained *in vivo* for triple negative breast cancer (highly aggressive breast cancer sub-type with no cure in clinic) for one of the Lead compounds developed during my PhD was awarded with the 1st position (project “*RuPharma*”) by a panel of external private investors at the **ScienceIN2Business 2015** initiative promoted by TecLabs, the FCUL Innovation Centre for Entrepreneurship. These promising results lead to the development of a second generation of compounds and to the submission of an international patent application WO 2016/087932 (see *section VIII.iv* for more details) that drew the attention of private sponsors.

As a result, the *Proto-Company HATICancer* was created on the 22nd of January 2017 by the WO 2016/087932 patent inventors, following an invitation from *Faculdade de Ciências da Universidade de Lisboa*. The aim of **HATICancer** is the preparation of the commercial valuation and exploration of metallodrugs developed within the mentioned patent, and to facilitate initiatives of the research team with potential investors.

In this frame **Prodigy Bubble**, a new company created on 30th May 2017 by a group of Portuguese Investors, is **sponsoring the pre-clinical *in vivo* assays** in a Good Practice Laboratory, required to support the proof-of-concept of the metallodrugs developed in the frame of the WO 2016/087932 patent. Besides, Prodigy Bubble, also supports all expenses associated with the entrance in Nacional Phase in UE and in the most competitive countries outside Europe.

Research Projects

Principal Investigator in one research project funded by the Portuguese Foundation for Science and Technology (FCT) - ongoing;

Team member in one European project Marie Skłodowska-Curie Actions (concluded). **Team member** in two Transnational Cooperation Programmes - Portugal-Poland (concluded) and Portugal-Hungary (ongoing).

Team member in 4 FCT financed projects (concluded).

Principal Investigator

- **PTDC/QUI-QIN/0146/2020** FCT project, “*Ruthenium-peptide conjugates: arrows for selectively targeting breast cancer*”, Funding: 249985,01€. From 2021, March to 2024, February – ongoing.

Team Member

European projects

- **H2020 EU programmes, Marie Skłodowska-Curie Actions/INPACT- H2020MSCARISE2014**, “*Innovative peptides against cancer and pathogenic bacteria, with advances in science, biopharmaceutical drug development, product market targeting, training, and communication.*” Grant Agreement: 644167, Start: 01/02/2015, End: 31/01/2019 – Concluded.

National projects

- **PTDC/QuiQui/118077/2010** FCT project, “*Preclinical evaluation of ruthenium potential drugs for cancer therapy*”, 2012-2015 – Concluded.
- **PTDC/QuiQui/101187/2008** FCT project, “*Ruthenium complexes for antitumour applications*”, 2010-2013 – Concluded.
- **PTDC/QUI/66148/2006** FCT project, “*Synthesis of organometallic molecular and polymeric materials with Nonlinear Optical Properties*”, 2009-2012 – Concluded.
- **PTDC/QUI/72656/2006** FCT project, “*Design of copper, zinc or iron compounds with leishmanicidal activity*”, 2008-2011 – Concluded.

European/International Networks

- **FCT/NKFIH, 2019/2020** - Scientific and Technological Cooperation Project – Portugal-Hungary, “*Development and bio-speciation studies of ruthenium anti-tumor complexes*”, 2019, June – 2021, May – ongoing.
- **FCT RD0480/Project 6818** – Transnational Cooperation Programme – Portugal-Poland, “*Complexes of Flavonoid’s Schiff bases: Impact of structural modification on the chelating ability and evaluation of biological and therapeutic properties*”, 2015-2016– Concluded.

Prizes, distinctions, radio/TV interviews and media citations*Prizes***Individual prizes**

- Granted with an honorarium by **Lilly UK pharmaceuticals** for the visit to the company in the scope of Lilly CASE award day, where I presented a conference, **2016**, Lilly UK pharmaceuticals.
- Tânia Morais awarded with the **Portuguese Young Chemist Award 2014 (PYC-Gradiva 2014) prize** with the work “*New compounds, big challenges*”, **2014**.

Team prizes

- M. Helena Garcia, **Tânia S. Morais**, Andreia Valente, Ana Isabel Tomaz, “*Rupharma*”, 1st position in the **ScienceIN2Business Initiative, TecLabs for Translational Research, 2015**.
- **Best poster prize**, M. Helena Garcia, **Tânia S. Morais**, Ana Isabel Tomaz, Andreia Valente, Fernanda Marques, “*Cyclopentadienyl ruthenium (macro)metalloodrugs: large spectrum antitumor agents*”, Drug Discovery & Therapy World Congress, **2013**.

Distintions

- Paper Dalton Trans., 2020, 49, 12273-12286. **Selected as HOT TOPIC (October2020)**
- Nominated for participation in the AAAS/science program for Excellence in Science (The American Association for Advance of Science); member number 20346650, **2016**, entity: **The American Association for Advance of Science**.
- 9th place (in 25) on the “*most downloaded papers in last 90 days*” from J. Inorg. Biochem., with the paper Journal of Inorganic Biochemistry, 169, 2017, 68-78, **June 2017**.
- 1st place (in 25) on the “*most downloaded papers in last 90 days*” from J. Inorg. Biochem., with the paper Journal of Inorganic Biochemistry, 130, 2014, 1-14, **February 2014**.

- 6th place (in 25) on the “most downloaded papers in last 90 days” from J. Inorg. Biochem., with the paper Journal of Inorganic Biochemistry, 129, 2013, 1 - 8, **January 2014**.
- 11th place (in 25) on the “most downloaded papers in last 90 days” from J. Inorg. Biochem., with the paper Journal of Inorganic Biochemistry, 122, 2013, 8 – 17, **March 2013**.

Radio/TV interviews

- **Program 90 segundos de ciência**, Antena 1 radio “Investigadora Tânia Morais, Investigação Desenvolve Composto Para Tratar O Cancro Da Mama Triplo Negativo, 90 segundos de ciência”, 11-12-2020 [link](#)

Media Citations

- “Novo complexo de Ruténio inibe o desenvolvimento de metástases in vivo”, Website ASPIC, **4th April 2017**, [link](#)
- “In vivo Performance of a Ruthenium-cyclopentadienyl Compound in an Orthotopic Triple Negative Breast Cancer Model”, Website ASPIC, **4th April 2017**, [link](#)
- “Novos complexos de cobre(I) e cobre(I)-ruténio(II) promissores para a terapia do cancro”, Website ASPIC, **16th March 2017**, [link](#)
- “Tânia Morais galardoada com o Portuguese Young Chemists Award”, Website Diário Digital, **17th July 2014**, [link](#)
- “Pós-doutorada da ULisboa distinguida com Portuguese Young Chemists Award 2014”, Website ULisboa, **17th July 2014**, [link](#)
- “Tânia Morais identificou compostos eficientes contra várias linhas celulares cancerígenas”, Website TVciência, **8th July 2014**, [link](#)
- “Tânia Morais identificou compostos eficientes contra várias linhas celulares cancerígenas”, Website PortugalNews, **8th July 2014**, [link](#)
- “Investigadora recebe «Portuguese Young Chemists Award» pelo trabalho «Novos compostos, grandes desafios»”, Website Diário Digital, **8th July 2014**, [link](#)
- “Jovens cientistas: Tânia S. Morais” Website FCUL, **8th July 2014**, [link](#)
- “1^o Prémio no “Drug Discovery & Therapy World Congress 2013”, **24th June 2013**, [link](#)
- “Cancro: Portuguesas vencem prémio mundial nos EUA”, **25th June 2013**, [link](#)
- In the Portuguese News/TVI channel – “Jornal da 8(TVI): Os comentários do Prof. Marcelo Rebelo de Sousa”, **14th July 2013**, [link](#) (3min 11seg)

Scientific Publications and Communications

Summary of Scientific Output Indicators



ResearcherID: D-8824-2011



ORCID code: 0000-0003-0233-8243

Scopus Scopus ID: 25930490800

h-index: 16 (source: Scopus)

Citations: 607 total citations by 326 documents (source: Scopus)

28 papers published in International Scientific Indexing (ISI) Journals:

6 as scientific responsible author

8 as first author

1 paper published in a NON-ISI Indexed Journal

6 book chapters

1 National Patent Application

3 International Patent Application

21 Oral communications in Scientific Meetings (9 as invited)

37 Poster communications in Scientific Meetings (see Annex)

Summary of Scientific Output Indicators Papers in International Scientific Indexing (ISI) Journals

29. Filipa C. Santos, Paulo J. Costa, M. Helena Garcia, **Tânia S. Morais***, “*Binding of RuCp complexes with human apo-transferrin: fluorescence spectroscopy and molecular docking methods*”, *BioMetals*, **2021** (submitted).
28. Ben Woods Rúben D. M. Silva, Claudia Schmidt, Darren Wragg, Marco Cavaco, Vera F. C. Ferreira, Lurdes Gano, **Tânia S. Morais**, Filipa Mendes* João D. G. Correia*, Angela Casini*, “*Bioconjugate supramolecular Pd²⁺ Metallacages Penetrate the Blood Brain Barrier In Vitro and In Vivo*”, *Bioconjugate Chemistry*, **2021**, *in press*. DOI: [10.1021/acs.bioconjchem.0c00659](https://doi.org/10.1021/acs.bioconjchem.0c00659). IF 4.031
27. Diogo Sequeira, Pedro V. Baptista, Ruben Valente, M. Fátima M. Piedade, M. Helena Garcia, **Tânia S. Morais***, Alexandra R. Fernandes*, “*Cu(I) complexes as new antiproliferative agents against sensitive and doxorubicin resistant colorectal cancer cells: Synthesis, Characterization, and Mechanisms of Action*”, *Dalton Transactions*, **2021**, 50, 1845-1865. DOI: [10.1039/D0DT03566A](https://doi.org/10.1039/D0DT03566A). IF 4.174
26. João Franco Machado, Diogo A. Sequeira, Fernanda M. Marques, Maria Fátima Minas da Piedade, Maria Villa Brito, Maria Helena Garcia, Alexandra R Fernandes, **Tânia S. Morais***, “*New copper(I) complexes selective for prostate cancer cells*”, *Dalton Transactions*, **2020**, 49, 12273-12286. DOI: [10.1039/D0DT02157A](https://doi.org/10.1039/D0DT02157A). **Selected as HOT TOPIC** (October2020/3 months). IF 4.174
25. Diana Fontinha, Sílvia A. Sousa, **Tânia S. Morais**, Miguel Prudêncio, Jorge H. Leitão, Yann Le Gal, Dominique Lorcy, Marta M. Andrade, Mariana F.G. Velho, M. Almeida, Dulce Belo, Joana F. Guerreiro, Rafaela A. L. Silva, Teresa Pinheiro, Fernanda Marques, “*Gold(III) bis(dithiolene) complexes: from molecular conductors to prospective antitumor, antimicrobial and antiplasmodial agentes*”, *Metallomics*, **2020**, 12, 974-987. DOI: [10.1039/D0MT00064G](https://doi.org/10.1039/D0MT00064G). IF 3.796
24. João Franco Machado, Miguel Machuqueiro, Fernanda M. Marques, Maria Paula Alves Robalo, Maria Fátima Minas da Piedade, Maria Helena Garcia, João D. G. Correia, **Tânia S. Morais***, “*Novel “ruthenium cyclopentadienyl”-peptide conjugate complexes against human FGFR(+) breast cancer*”, *Dalton Transactions*, **2020**, 49, 5974-5987. DOI: [10.1039/D0DT00955E](https://doi.org/10.1039/D0DT00955E). IF 4.052
23. Catarina Bravo, Maria Paula Alves Robalo, Fernanda M. Marques, Alexandra R Fernandes, Diogo A. Sequeira, Maria Fátima Minas da Piedade, Maria Helena Garcia, Maria Villa Brito, **Tânia S. Morais***, “*First heterobimetallic Cu(I)-dppf complexes designed for anticancer applications: synthesis, structural characterization and cytotoxicity*”, *New Journal of Chemistry*, **2019**, 43, 12308-12317. DOI: [10.1039/C9NJ02068C](https://doi.org/10.1039/C9NJ02068C). IF 3.069
22. Lurdes Gano, Teresa Pinheiro, António Pedro Matos, Francisco Tortosa, Tiago F. Jorge, Maria Salomé Gonçalves, **Tânia S. Morais**, Andreia Valente, Ana Isabel Tomaz, Maria Helena Garcia, Fernanda Marques, “*Antitumour and Toxicity Evaluation of a Ru(II)-Cyclopentadienyl Complex in a Prostate Cancer Model by Imaging Tools*”, *Anticancer. Agents Med. Chem.*, **2019**, 19(10), 1262-1275. DOI: [10.2174/1871520619666190318152726](https://doi.org/10.2174/1871520619666190318152726). IF 2.180
21. **Tânia S. Morais***, Yann Jousseau, 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 NN, NO and NS bidentate ligands*”, *Dalton Transactions*, **2018**, 47, 7819-7829. DOI: [10.1039/C8DT01653D](https://doi.org/10.1039/C8DT01653D). IF 4.029

20. João Lopes, David Alves, **Tânia S. Morais***, Paulo J. Costa, M. Fátima M. Piedade, Fernanda Marques, Maria J. Villa de Brito*, M. Helena Garcia, “*New copper(I) and heteronuclear copper(I)–ruthenium(II) complexes: Synthesis, structural characterization and cytotoxicity*”, *Journal of Inorganic Biochemistry*, **2017**, 169, 68-78. DOI: [10.1016/j.jinorgbio.2017.01.007](https://doi.org/10.1016/j.jinorgbio.2017.01.007) (9th place in the “most downloaded papers in last 90 days” from *J. Inorg. Biochem.*, June 2017). IF 3.348
19. Nuno Mendes, Francisco Tortosa, António Matos, Fernanda Marques, **Tânia S. Morais**, Andreia Valente, Ana Isabel Tomaz, Fátima Gartner, M. Helena Garcia, “*In vivo performance of a ruthenium cyclopentadienyl compound in an orthotopic triple negative breast cancer model*”, *AntiCancer Agents in Medicinal Chemistry*, **2017**, 17(1), 126 - 136. DOI: [10.2174/1871520616666160922165133](https://doi.org/10.2174/1871520616666160922165133). IF 2.722
18. **Tânia S. Morais**, Andreia Valente, A. Isabel Tomaz, Fernanda Marques, M. Helena Garcia, “*Tracking antitumor metallodrugs: promising agents with the Ru(II) and Fe(II) cyclopentadienyl scaffolds*”, *Future Medicinal Chemistry*, **2016**, 8(5), 527-544. DOI: [10.4155/fmc.16.7](https://doi.org/10.4155/fmc.16.7). **Selected as Issue Special Report**. IF 3.556
17. Mariana Fernández, Esteban Rodríguez Arce, Cynthia Sarniguet, **Tânia S. Morais**, Ana Isabel Tomaz, Claudio Olea Azar, Roberto Figueroa, J. Diego Maya, Andrea Medeiros, Marcelo Comini, M. Helena Garcia, Lucía Otero, Dinorah Gambino, “*Novel ruthenium(II) cyclopentadienyl thiosemicarbazone compounds with antiproliferative activity on pathogenic trypanosomatid parasite*”, *Journal of Inorganic Biochemistry*, **2015**, 153, 306-314. DOI: [10.1016/j.jinorgbio.2015.06.018](https://doi.org/10.1016/j.jinorgbio.2015.06.018). IF 3.205
16. Esteban Rodríguez Arce, Cynthia Sarniguet, **Tânia S. Morais**, Marisol Vieites, Ana Isabel Tomaz, Andrea Medeiros, Marcelo Comini, Javier Varela, Hugo Cerecetto, Mercedes González, Fernanda Marques, M. Helena Garcia, Lucía Otero, Dinorah Gambino, “*A new ruthenium cyclopentadienyl azole compound with activity on tumor cell lines and trypanosomatid parasites*”, *Journal of Coordination Chemistry*, **2015**, 68, 2923-2937. DOI: [10.1080/00958972.2015.1062480](https://doi.org/10.1080/00958972.2015.1062480). IF 2.012
15. Leonor Côrte-Real, Filipa Mendes, Joana Coimbra, **Tânia S. Morais**, Ana Isabel Tomaz, Andreia Valente, Maria Helena Garcia, Isabel Santos, Manuel P. Bicho, Fernanda Marques; “*Anticancer activity of structurally related ruthenium(II) cyclopentadienyl complexes*”, *Journal of Biological Inorganic Chemistry*, **2014**, 19, 853-867. DOI: [10.1007/s00775-014-1120-y](https://doi.org/10.1007/s00775-014-1120-y). IF 3.353
14. **Tânia S. Morais**, Filipa C. Santos, Tiago F. Jorge, Leonor Côrte-Real, Paulo J. A. Madeira, Fernanda Marques, M. Paula Robalo, António Matos, Isabel Santos, M. Helena Garcia, “*New Water-soluble Ruthenium(II) Cytotoxic Complex: Biological Activity and Cellular Distribution*”, *Journal of Inorganic Biochemistry*, **2014**, 130, 1 - 14. DOI: [10.1016/j.jinorgbio.2013.09.013](https://doi.org/10.1016/j.jinorgbio.2013.09.013). (1st place in the “most downloaded papers in last 90 days” from *J. Inorg. Biochem.*, January 2014). IF 3.444
13. **Tânia S. Morais**, Filipa C. Santos, Leonor Côrte-Real, M. Helena Garcia, “*Exploring the effect of the ligand design on the interactions between [Ru(η^5 -C₅H₅)(PPh₃)(N,O)][CF₃SO₃] complexes and Human Serum Albumin*”, *Journal of Inorganic Biochemistry*, **2013**, 129, 94 - 101. DOI: [10.1016/j.jinorgbio.2013.09.008](https://doi.org/10.1016/j.jinorgbio.2013.09.008). IF 3.274
12. Ana Cristina Gonçalves, **Tânia S. Morais**, M. Paula Robalo, Fernanda Marques, Fernando Avecilla, Cristina P. Matos, Isabel Santos, Ana Isabel Tomaz, M. Helena Garcia, “*Important cytotoxicity of novel iron(II) cyclopentadienyl complexes with imidazole based ligands*”, *Journal of Inorganic Biochemistry*, **2013**, 129, 1 - 8. DOI: [10.1016/j.jinorgbio.2013.07.033](https://doi.org/10.1016/j.jinorgbio.2013.07.033). (6th place in the “most downloaded papers in last 90 days” from *J. Inorg. Biochem.*, January 2014). IF 3.274
11. Susana Quintal, **Tânia S. Morais**, Cristina P. Matos, M. Paula Robalo, M. Fátima M. Piedade, Maria J. Villa de Brito, M. Helena Garcia, Mónica Marques, Carla Maia, Lenea Campino, João Madureira, “*Synthesis, structural characterization and leishmanicidal activity evaluation of ferroncenyl N-heterocyclic compounds*”,

- Journal of Organometallic Chemistry, **2013**, 745-746, 299-311. DOI: [10.1016/j.jorganchem.2013.07.044](https://doi.org/10.1016/j.jorganchem.2013.07.044). IF 2.302
10. Leonor Côrte-Real, António P. Matos, Irina Alho, **Tânia S. Morais**, Ana Isabel Tomaz, Maria Helena Garcia, Isabel Santos, Manuel P. Bicho, Fernanda Marques, “*Cellular Uptake Mechanisms of a Antitumor Ruthenium compound: The endosomal/Lysosomal System as a Target for Anticancer Metal-Based Drugs*”, Microscopy and Microanalysis, **2013**, 1-9. DOI: [10.1017/S143192761300175X](https://doi.org/10.1017/S143192761300175X). IF 2.161
9. **Tânia S. Morais**, Filipa C. Santos, Leonor Côrte-Real, Fernanda Marques, M. Paula Robalo, Paulo J. Amorim Madeira, M. Helena Garcia, “*Biological activity and cellular uptake of $[Ru(\eta^5-C_5H_5)(PPh_3)(Me_2bpy)][CF_3SO_3]$* ”, Journal of Inorganic Biochemistry, **2013**, 122, 8-17. DOI: [10.1016/j.jinorgbio.2013.01.011](https://doi.org/10.1016/j.jinorgbio.2013.01.011). (**11st place in the “most downloaded papers in last 90 days” from J. Inorg. Biochem., March 2013**). IF 3.274
8. Ana Isabel Tomaz, Tamás Jakush, **Tânia S. Morais**, Fernanda Marques, Rodrigo F. M. de Almeida, Filipa Mendes, Éva A. Enyedy, Isabel Santos, João Costa Pessoa, Tamás Kiss, M. Helena Garcia, “ *$[Ru(\eta^5-C_5H_5)(bipy)(PPh_3)]^+$ a promising large spectrum antitumor agent: cytotoxic activity and interaction with human serum albumin*”, Journal of Inorganic Biochemistry, **2012**, 117, 261 – 269. DOI: [10.1016/j.jinorgbio.2012.06.016](https://doi.org/10.1016/j.jinorgbio.2012.06.016). IF 3.197
7. Paulo J. Amorim Madeira[§], **Tânia S. Morais**[§], Tiago Silva, Pedro Florindo, M. Helena Garcia, “*Gas-phase behaviour of Ru(II) cyclopentadienyl-derived complexes with N coordinated ligands by electrospray ionization mass spectrometry: fragmentation pathways and energetics*”, Rapid Communications in Mass Spectrometry, **2012**, 26, 1675-1686. DOI: [10.1002/rcm.6276](https://doi.org/10.1002/rcm.6276). (**§ both authors contributed equally to the work**). IF 2.520
6. **Tânia S. Morais**, M. Helena Garcia, M. Paula Robalo, M. Fátima M. Piedade, M. Teresa Duarte, M. José Villa de Brito, Paulo J. Amorim Madeira, “*Synthesis and structural characterization of new piano-stool ruthenium(II) complexes bearing 1-butylimidazole heteroaromatic ligand*”, Journal of Organometallic Chemistry, **2012**, 712, 112- 122. DOI: [10.1016/j.jorganchem.2012.04.024](https://doi.org/10.1016/j.jorganchem.2012.04.024). IF 2.000
5. **Tânia S. Morais**, Tiago J. L. Silva, Fernanda Marques, M. Paula Robalo, Fernando Avecilla, Paulo J. Amorim Madeira, Paulo J. G. Mendes, Isabel Santos, M. Helena Garcia, “*Synthesis of organometallic ruthenium(II) complexes with strong activity against several human cancer cell lines*”, Journal of Inorganic Biochemistry, **2012**, 114, 65-74. DOI: [10.1016/j.jinorgbio.2012.04.014](https://doi.org/10.1016/j.jinorgbio.2012.04.014). IF 3.197
4. M. Helena Garcia, **Tânia S. Morais**, Andreia Valente, M. Paula Robalo, Mercè Font-Bardia, Teresa Calvet, Julia Lorenzo, Francesc X. Avilés, “*DNA interaction and cytotoxicity studies of new ruthenium(II) cyclopentadienyl derivative complexes containing heteroaromatic ligands*”, Journal of Inorganic Biochemistry, **2011**, 105, 241-249. DOI: [10.1016/j.jinorgbio.2010.10.009](https://doi.org/10.1016/j.jinorgbio.2010.10.009). IF 3.354
3. M. Helena Garcia, Andreia Valente, Pedro Florindo, **Tânia S. Morais**, M. Fátima M. Piedade, M. Teresa Duarte, Virtudes Moreno, “*New Ruthenium(II) Mixed Metallocene derived complexes: Synthesis, Characterization by X-ray Diffraction Studies and Evaluation on DNA interaction by Atomic Force Microscopy*”, Inorganica Chimica Acta, **2010**, 363, 3765- 3775. DOI: [10.1016/j.ica.2010.05.034](https://doi.org/10.1016/j.ica.2010.05.034). IF 1.899
2. Virtudes Moreno, Julia Lorenzo, Francesc X. Avilés, M. Helena Garcia, João Ribeiro, **Tânia S. Morais**, Pedro Florindo, “*Studies of the Antiproliferative Activity of Ruthenium(II) Cyclopentadienyl derived Complexes with Nitrogen Coordinated Ligands*”, Bioinorganic Chemistry and Applications, **2010**, article ID 936834. DOI: [10.1155/2010/396834](https://doi.org/10.1155/2010/396834). IF 1.217
1. M. Helena Garcia, **Tânia S. Morais**, Pedro Florindo, M. Fátima M. Piedade, Virtudes Moreno, Carlos Ciudad, Veronica Noe, “*Inhibition of Cancer Cell Growth by Ruthenium(II) Cyclopentadienyl derivative Complexes*

with *Heteroaromatic Ligands*”, Journal of Inorganic Biochemistry, **2009**, 103, 354-361. DOI: [10.1016/j.jinorgbio.2008.11.016](https://doi.org/10.1016/j.jinorgbio.2008.11.016). IF 3.252

Book Chapters

6. Andreia Valente, **Tânia S. Morais**, Ricardo G. Teixeira, Cristina P. Matos, Ana Isabel Tomaz*, M. Helena Garcia, “*Ruthenium and iron metallodrugs: new inorganic and organometallic complexes as prospective anticancer agents*”, Chp 6. In *Synthetic Inorganic Chemistry: New Perspectives*, Editor: Ewan Hamilton, Elsevier. ISBN: 9780128184295. scheduled release date: **March 2021** [link](#)

5. Andreia Valente, **Tânia S. Morais**, M, Helena Garcia, “*Ruténio - o elemento que não para de nos surpreender!*” In “*Os Elementos em Ciências - Uma viagem pela Tabela Periódica*” (Editors: A. Mourato, A. Paula Carvalho, F. Leitão, T. Pamplona), **2020**, Faculdade de Ciências da Universidade de Lisboa. ISBN: 978-972-9348-22-8, 978-972-9348-21-1 (printed version & Epub)

4. **Tânia S. Morais**, Maria José Villa de Brito, “*O cobre – protagonista de todos os tempos...*”, In “*Os Elementos em Ciências - Uma viagem pela Tabela Periódica*” (Editors: A. Mourato, A. Paula Carvalho, F. Leitão, T. Pamplona), **2020**, Faculdade de Ciências da Universidade de Lisboa. ISBN: 978-972-9348-22-8, 978-972-9348-21-1 (printed version & Epub)

3. António Matos, Filipa Mendes, Andreia Valente, **Tânia S. Morais**, Ana Isabel Tomaz, Philippe Zinck, Maria Helena Garcia, Manuel Bicho, Fernanda Marques, “*Ruthenium based anticancer compounds: insights into their cellular targeting and mechanism of action*”, Cap. 10, Wiley-VCH book “*Ruthenium Complexes – Photochemical and Biomedical Applications*” (Editors: Alvin A. Holder, Jimmie L. Bullock Jr., Marc A. Lawrence, Wesley R. Browne, Lothar Lilje), **2018**. ISBN: 978-3-527-33957-0. [link](#)

2. Tiago J. Silva, Paulo J. Mendes, **Tânia S. Morais**, Andreia Valente, M. Paula Robalo, M. Helena Garcia, “*RuCp” a versatile moiety: from NLO to antitumor properties*”, Cap. 4, Book “*Ruthenium: Synthesis, Physicochemical Properties and Applications*”, Nova Science Publishers, Inc. (NOVA), USA, **2014**. ISBN: 978-1-63321-657-0. [link](#)

1. **Tânia S. Morais**, M. Helena Garcia, “*On the track to cancer therapy: paving new ways with ruthenium organometallics*”, Cap. 43, Wiley-VCH book “*Organometallic Chemistry and Catalysis: Recent advances, the Silver/Gold Jubilee ICOMC Celebratory Book*” (Editor: Armando J. L. Pombeiro), **2013**. ISBN: 978-1-118-51014-8. [link](#)

Patents

4. “*Macromolecular transition metal complexes for treatment of cancer and process for their preparation*”, Inventors: M. Helena Garcia, Andreia Valente, **Tânia S. Morais**, Ana Isabel Tomaz - International Patent application PCT/IB2015/002312, WO 2016/087932. Applicant: Universidade de Lisboa; Filing date: 6.June.2016. [link](#)

3. “*Novos complexos macromoleculares de metais de transição para tratamento do cancro*” Inventors: M M. Helena Garcia, Andreia Valente, **Tânia S. Morais**, Ana Isabel Tomaz - Patent application PT Nº108.082. Applicant: Universidade de Lisboa; Filing date: 6.December.2014.

2. “*Water-soluble organometallic ruthenium and iron compounds presenting heteroaromatic ligands*” Inventors: M. Helena Garcia, **Tânia S. Morais**, Ana Isabel Tomaz, Fernanda Marques; Patent application:

PCT/IB2013/052035, WO 2013136296 A3; Applicant: Universidade de Lisboa; Filing date: 14.March.2013.
[link](#)

1. "Transition metal complexes for pharmaceutical applications", Inventors: **Tânia S. Morais**, Ana Isabel Tomaz, Fernanda Marques, Filipa Mendes; Patent application PCT/IB2012/054914, WO 2013038395 A1; Applicant: Universidade de Lisboa; Filing date: 17.September.2012. [link](#)

Proceedings with Scientific Refereeing

7. Fernanda Marques, Sílvia A. Sousa, Jorge H. Leitão, **Tânia S. Morais**, Yann Le Gal, Dominique Lorcy, "Gold(III) biddithiolate complexes: molecular conductors that also exhibit antitumor and antimicrobial activities", 4th International Congress of CiiEM 2019 on Health, Well-Being and Ageing in the 21st Century, Annals of Medicine (CiiEM Congress Supplement), **2019**.

6. M. Helena Garcia, Andreia Valente, **Tânia S. Morais**, Ana Isabel Tomaz, "Ruthenium new drug: paving the way for cancer therapy", J. Biol. Inorg. Chem., **2017**, 22:1, S122, 18th International Conference on Biological Inorganic Chemistry (ICBIC), Florianopolis, Brazil (ISSN: 0949-8257).

5. M. Helena Garcia, Andreia Valente, **Tânia S. Morais**, Fernanda Marques, "Ruthenium Organometallic compounds as promising antimetastatic drugs for breast cancer chemotherapy", Chem. Sci. J., **2016**, 7:2 (Suppl). DOI:10.4172/21503494.C1.002.

4. M. Helena Garcia, **Tânia S. Morais**, A. Isabel Tomaz, Fernanda Marques, Andreia Valente, "Ruthenium drugs for cancer therapy: small structural changes, different in vivo performances", 4th International Conference on Medicinal Chemistry and Computer Aided Drug Designing, November 02-04, **2015**, 5:10, Atlanta, USA (ISSN: 2161-0444). DOI:10.4172/21610444.C1.015.

3. M. Helena Garcia, **Tânia S. Morais**, Andreia Valente, Fernanda Marques, "Tracking antitumor drugs: Ruthenium(II)cyclopentadienyl complexes as promising agents", 3rd International Conference on Medicinal Chemistry & Computer Aided Drug Designing, December 08-10, **2014**, San Francisco, USA. DOI: 10.4172/21610444.S1.011.

2. Fernanda Marques, Leonor Côrte-Real, António P. Matos, Irina Alho, **Tânia S. Morais**, Ana Isabel Tomaz, Maria Helena Garcia, Manuel P. Bicho, "Intracellular distribution of antitumor Ru(II) compounds: the lysosome and the lysosomal enzymes as targets for anticancer metal based Drugs", Microscopy and Microanalysis", **2013**, volume 19 (supplement S4) 9 – 10. DOI: 10.1017/S1431927613000664.

1. **Tânia S. Morais**, M. Helena Garcia, M. Paula Robalo, Andreia Valente, Virtudes Moreno, Mercè Font-Bardia, Teresa Calvet, Julia Lorenzo, Francesc X. Avilés, "Cytotoxicity Studies and DNA Interaction of New Ruthenium(II) Cyclopentadienyl Complexes with Nitrogen Coordinated Ligands", XII Iberian Meeting of Electrochemistry and XVI Meeting of the Portuguese Electrochemical Society, September 8-11, Lisboa, Portugal. Portugaliae Electrochimica Acta, **2010**, 76 (abst. PB10).

Other Publications

Electronic Publications

Papers selected by the Global Medical Discovery (online continuous dissemination):

- **2014** “*Anticancer activity of structurally related ruthenium(II) cyclopentadienyl complexes*”, Leonor Côrte-Real, Filipa Mendes, Joana Coimbra, **Tânia S. Morais**, Ana Isabel Tomaz, Andreia Valente, M. Helena Garcia, Isabel Santos, Manuel Bicho, featured at Global Medical Discovery [ISSN 1929-8536], [link](#).
- **2012** “[*Ru^{II}(eta⁵-C₅H₅)(bipy)(PPh₃)₂*]⁺, a promising large spectrum antitumor agent: cytotoxic activity and interaction with Human Serum Albumin”, Ana Isabel Tomaz, Tamás Jakusch, Tânia S. Morais, Rodrigo F. M. de Almeida, Fernanda Marques, Filipa Mendes, Eva A. Enyedy, João Costa Pessoa, Támas Kiss, M. Helena Garcia, featured at Global Medical Discovery [ISSN 1929-8536], [link](#).

Scientific publications NON-ISI Indexed

- **Tânia S. Morais***, “*Novos Compostos, Grandes Desafios*”, Química, Boletim da Sociedade Portuguesa de Química, Series III, number 133, June **2014**.

Oral Communications

Invited Speaker

3. **Tânia S. Morais**, “*Ruthenium Chemistry for cancer therapy: ten years challenge*”, Universidade de Évora, Portugal, 21st April **2020**.
2. **Tânia S. Morais**, “*Ruthenium Drugs: a break in the wall*”, Lilly CASE award day, Lilly UK pharmaceuticals, 16 September **2016**, Windlesham, UK.
1. **Tânia S. Morais**, “*New compounds, big challenges*”, 4th Portuguese Young Chemist Meeting, 1 May **2014**, Coimbra, Portugal.

Invited Co-author

6. M. Helena Garcia, **Tânia S. Morais**, Andreia Valente, Ana Isabel Tomaz, “*Progress on the design of metal-based drugs for cancer therapy*”, 6th World Congress on Natural Product & Synthetic Chemistry (Synthetic Chemistry 2019), June 24-25, **2019**, New York, USA.
5. Ana Isabel Tomaz, Andreia Valente, **Tânia S. Morais**, Fernanda Marques, M. Helena Garcia, “*Ruthenium compounds as metallodrug candidates for cancer therapy*”, BIT's 10th Annual World Cancer Congress 2017 (WCC2017), May 19-21, **2017**, Barcelona, Spain.
4. M. Helena Garcia, Andreia Valente, **Tânia S. Morais**, Ana Isabel Tomaz, “*Ruthenium new drugs: a promising future in cancer therapy?*” World Congress on Cancer Research & Therapy, November 21-23, **2016**, Miami, USA.
3. M. Helena Garcia, Andreia Valente, **Tânia S. Morais**, Fernanda Marques, “*Ruthenium Organometallic compounds as promising antimetastatic drugs for breast cancer chemotherapy*”, European Chemistry Congress, June 16-18, **2016**, Rome, Italy.
2. M. Helena Garcia, **Tânia S. Morais**, Ana Isabel Tomaz, Fernanda Marques, Andreia Valente, “*Ruthenium drugs for cancer therapy: small structural changes, different in vivo performances*”, 4th International Conference on Medicinal Chemistry & Computer Aided Drug Designing”, November 02-04, **2015**, Atlanta, USA.

1. M. Helena Garcia, **Tânia S. Morais**, Andreia Valente, Fernanda Marques, "Tracking antitumor drugs: ruthenium(II) cyclopentadienyl complexes as promising agents", 3rd International Conference on Medicinal Chemistry & Computer Aided Drug Designing, December 08-10, **2014**, San Francisco, USA.

Speaker/Co-author (International/National Conferences)

12. João D. G. Correia, João Franco Machado, Fernanda Marques, M. Helena Garcia, **Tânia S. Morais***, "Ruthenium-peptide conjugates for the selective treatment of triple-negative breast cancer", 17th Iberian Peptide Meeting (EPI 2020), February 5th-7th, **2020**, Madrid, Spain.

11. João Franco Machado, Fernanda Marques, M. Fátima M. Piedade, M. José Villa de Brito, Maria Helena Garcia, **Tânia S. Morais***, "Copper(I)-phosphane complexes as potencial anticancer agents", XXIV Encontro Luso-Galego de Química, November 21-23, **2018**, Porto, Portugal.

10. João Franco Machado, Fernanda Marques, M. Fátima M. Piedade, Maria Helena Garcia, **Tânia S. Morais***, "Synthesis and characterization of promising anticancer Cu(I) complexes", MMSE 2018 - Modern Methods of Structure Elucidation, October 18th, **2018**, Lisbon, Portugal. **FLASH PRESENTATION**

9. Maria Helena Garcia, Andreia Valente, **Tânia S. Morais**, Ana Isabel Tomaz, "Ruthenium new drug: paving the way for cancer therapy", ICBC18- 18th International Conference on Biological Inorganic Chemistry, July 31st - August 4th, **2017**, Florianópolis, Brazil.

8. Esteban Rodríguez Arce, Mariana Fernández, Cynthia Sarniguet, **Tânia S. Morais**, Ana Isabel Tomaz, Claudio Olea Azar, Roberto Figueroa, J. Diego Maya, Andrea Medeiros, Marcelo Comini, M. Helena García, Lucía Otero and Dinorah Gambino, "New ruthenium cyclopentadienyl thiosemicarbazone compounds with antiproliferative activity on pathogenic trypanosomatid parasites", 13th International Symposium on Applied Bioinorganic Chemistry (ISABC13) OP16, June 12-15, **2015**, Galway, Ireland.

7. **Tânia S. Morais**, "Targeting tumors with innovative ruthenium peptide complexes", CQE Young Researchers Day, 1 December **2014**, Lisbon, Portugal.

6. **Tânia S. Morais**, M. Helena Garcia, "Novos compostos organometálicos de ruténio na terapia do cancro", XX Encontro Luso-Galego de Química, 26-28 November **2014**, Porto, Portugal.

5. Fernanda Marques, Leonor Côrte-Real, **Tânia S. Morais**, Manuel Bicho, Maria Helena Garcia, António Matos, "Ruthenium-based anticancer compounds: Insights into their uptake mechanisms and cellular targets", 4th World Congress on Cancer Science & Therapy, 20-22 October **2014**, Chicago, USA.

4. Fernanda Marques, António P. Matos, Leonor Côrte-Real, Tânia S. Morais, Ana Isabel Tomaz, M. Helena Garcia, Manuel P. Bicho, "Novel Pathways for Anticancer Therapy: the Role of Golgi network in the mechanism of cell death of organometallic complexes", Microscopy at the Frontiers of Science, 2013: 3rd Joint Congress of the Portuguese and Spanish Microscopy Societies and Israel Society for Microscopy, 17-20 September **2013**, Tarragona, Spain.

3. Ana Isabel Tomaz, Tamás Jakusch, **Tânia S. Morais**, Rodrigo F. M. de Almeida, Fernanda Marques, Filipa Mendes, Éva A. Enyedy, M. Helena Garcia, "Promising organometallic ruthenium metallodrugs: Ru^{II}(η^5 -C₅H₅)(bipy)(PPh₃)⁺ a promising large spectrum antitumor agent", 3rd National Meeting on Medicinal Chemistry, 25 – 27 November **2012**, Aveiro, Portugal.

2. Fernanda Marques, Leonor Côrte-Real, António Matos, Irina Alho, **Tânia S. Morais**, Ana Isabel Tomaz, M. Helena Garcia, Manuel P. Bicho, "Intracellular distribution of antitumor Ru(II) compounds: the lysosome and the lysosomal enzymes as targets for anticancer metal-based drugs", XLVI Congress of the Portuguese Society for Microscopy 2012, 24-25 September **2012**, Centro Hospitalar de Lisboa Central/Hospital D. Estefânia, Lisbon, Portugal.

1. Ana Isabel Tomaz, Tamás Jakusch, **Tânia S. Morais**, Rodrigo F. M. de Almeida, Fernanda Marques, Filipa Mendes, Éva A. Enyedy, João Costa Pessoa, Tamás Kiss, M. Helena Garcia, "A promising large spectrum new

antitumor ruthenium agent: interaction with serum proteins ad mechanisms of cell death", 4th European Conference on Chemistry for Life Sciences, 31 August – 3 September **2011**, Budapest, Hungry.

Invited Speaker in Courses and Seminars

3. **Tânia S. Morais**, "*Peptides as therapeutic agents*", lecture on Biochemistry I from the 1st academic year of Sciences and Health Course, Faculdade de Ciências da Universidade de Lisboa, **2017**.
2. **Tânia S. Morais**, "*Carbohydrates. Classification of carbohydrates. Polysaccharides of structure and storage.*", lecture on Biochemistry I from the 1st academic year of Sciences and Health Course, Faculdade de Ciências da Universidade de Lisboa, **2016**.
1. **Tânia S. Morais**, "*Evaluation of the potential anti-tumoral properties of new ruthenium bioorganometallic compounds*", CCMM Seminars, 26 March **2014**, Lisbon, Portugal.

Teaching Experience

Assistant Professor at Faculdade de Ciências da Universidade de Lisboa (since **2016**).

- **2018 to present** **Inorganic Biochemistry/Bioquímica Inorgânica**; 2nd year course in the bachelor's degree (1st cycle) in Biochemistry; 2nd semester, FCUL; 2PL (2x2h);
- **2018 to present** **Complementary Inorganic Chemistry/Química Inorgânica Complementar**; 3rd year course in the bachelor's degree (1st cycle) in Chemistry, 1st semester, FCUL; 1PL (3h);
- **2017/2018** **Inorganic Chemistry/ Química Inorgânica**; 2nd year course in the bachelor's degree (1st cycle) in Chemistry, Technological Chemistry and Biochemistry; 2nd semester, FCUL; 1PL (2h);
- **2017/2018** **Laboratory of Synthesis and Development of Products /Laboratório de Sínteses e Desenvolvimento de Productos**; 2nd year course in the bachelor's degree (1st cycle) in Technological Chemistry; 2nd semester, FCUL; 1PL (2h);
- **2015/2016, 2016/2017** **Biochemistry/Bioquímica**; 1st year course in the bachelor's degree (1st cycle) in Health Sciences; 2nd semester, FCUL; 1PL (3h);
- **2013/2014, 2014/2015** **Biochemistry/Bioquímica**; 1st year course in the bachelor's degree (1st cycle) in Biology; 2nd semester, FCUL; 1PL (3h);

Monitor/Assistant:

- **2009/2010, 2010/2011** **Laboratory of Synthesis and Development of Products/Laboratório de Sínteses e Desenvolvimento de Productos**; 2nd year course in the bachelor's degree (1st cycle) in Technological Chemistry; 2nd semester, FCUL; 1PL (3h);
- **2008/2009** **Chemicals and Electrochemicals Industrial Processes/ Processos Químicos e Electroquímicos Industriais**; 3rd year course in the bachelor's degree (1st cycle) in Technological Chemistry;; 1st semester, FCUL; 1PL (3h);

Supervising Experience

Supervision of Graduate Students

PhD. Thesis

- João Machado (2018 - 2022), PhD. in Chemistry - Inorganic Chemistry, FCUL, entitled "*Targeting metastatic breast cancer with innovative ruthenium-peptide conjugates*", FCT grant SFRH/BD/135915/2018 (co-supervisor: Doctor João Galamba Correia, Campus Tecnológico e Nuclear, Instituto Superior Técnico) - **start in October 2018**.

MSc. Thesis

- Diogo Sequeira (2018/2019), MSc. in Molecular Genetics and Biomedicine, FCT-Nova, entitled "*Evaluation of Cu (I) compounds as novel chemotherapeutic agents*" (co-supervision with Doctor Alexandra Fernandes). Evaluated with 19/20.
- Catarina Bravo (2017/2018), MSc. in Chemistry, FCUL, entitled "*Synthesis of Cu(I) and Fe(II) complexes with potential antitumour application*" (co-supervisor: prof. Maria José Brito). Evaluated with 20/20.
- David Alves (2015/2016), MSc. In Technological Chemistry, FCUL, entitled "*Development and production of a drug. From the laboratorial synthesis to the industrial process*" (in collaboration with Iberfar Industria Farmacêutica S.A. company). Evaluated with 19/20.

Supervision of Undergraduate Students

Graduation Projects

- Marco Sá (2020/2021), undergraduate student from 1st Cycle in Chemistry from FCUL final project entitled "*New organometallic ruthenium complexes for breast cancer therapy*" (co-supervisor: MSc. João Franco Machado) – ongoing.
- Inês Ribeiro (2019/2020), undergraduate student from 1st Cycle in Technological Chemistry from FCUL, final project entitled "*Synthesis of copper(I) complexes with potential anti-tumor application*". Evaluated 17/20
- Joana Lourenço (2019/2020), undergraduate student from 1st Cycle in Chemistry from FCUL, final project entitled "*Development of new inorganic Cu(I) complexes with potential application as anti-tumor agents*". Evaluated 17/20
- Vanessa Wilson (2018/2019), undergraduate student from 1st Cycle in Chemistry from FCUL, final project entitled "*Development of copper(I) complexes containing amino acids for cancer therapy*". Evaluated 18/20
- Raquel Ferro (2018/2019), undergraduate student from 1st Cycle in Applied Chemistry from FCT-NOVA, final project entitled "*Development of copper(I) complexes for cancer therapy*". Evaluated 16/20.
- Francisco Manuel Silvestre (2015/2016), undergraduate student from 1st Cycle in Technological Chemistry from FCUL, final project entitled "*Synthesis of new ruthenium organometallic complexes functionalized with sugars for selective cancer therapy*". Evaluated 17/20.
- João Lopes (2014/2015), undergraduate student from 1st Cycle in Chemistry from FCUL, final project entitled "*Synthesis of copper and iron complexes with potential antitumor application*". Co-supervision of the project with prof. Maria José Brito. Evaluated 19/20.

- Rui Miguel Freitas (2014/2015), undergraduate student from 1st Cycle in Technological Chemistry from FCUL, final project entitled “*Synthesis of new ruthenium organometallic complexes with phosphates derived from sugars for potential application in selective therapy in cancer treatment*”. Evaluated 17/20.
- David Alves (2013/2014), undergraduate student from 1st Cycle in Technological Chemistry from FCUL, final project entitled “*Synthesis of new organometallic complexes with potential application in the treatment of gliomas*”. Evaluated 20/20.

Erasmus Projects

- Magdalena Sobieska (2017/2018), undergraduate student from University of Gdansk, Poland in the frame of the program *Erasmus+*, project entitled “*Synthesis of Cu(I) and Fe(II) complexes with potential anti-tumor application*”.
- Yann Jousseume (2015/2016), undergraduate student from University of Pierre and Marie Curie in Paris in the frame of the program *Erasmus+*, final project entitled “*Synthesis of copper(I) complexes with potential antitumor applications*”. Co-supervision of the project with prof. Maria José Brito. Evaluated 18/20.

Other Scholar Projects

- Inês Poças (2016), Ser Cientista project, FCUL, 18th-22nd July 2016, “*A puzzle piece in the fight of cancer*”.

Jury

Arguer

- Member of the Jury to discuss the final project in Chemistry Degree of Jorge Valentim, entitled “*New ruthenium complexes containing derivatized benzonitriles as potential anti-cancer agents*”, Thesis supervised by Doctor Andreia Valente. Faculdade de Ciências da Universidade de Lisboa, July, 2020.
- Member of the Jury to discuss the final project in Chemistry Degree of Duarte Antunes, entitled “*Study of the degradation and detection of pollutants*”, Thesis supervised by Doctor Elisabete Silva and Doctor Carla Nunes. Faculdade de Ciências da Universidade de Lisboa, July, 2019.
- Member of the Jury to discuss the final project in Chemistry Degree of Beatriz Filipa Afonso Moreno, entitled “*Synthesis of new complexes of endogenous metals with anticancer potential*”, Thesis supervised by Doctor Andreia Valente. Faculdade de Ciências da Universidade de Lisboa, July, 2019.
- Member of the Jury to discuss the final project in Biochemistry Degree of Susana Catapirra Magessi Ferreira, entitled “*Synthesis and biological evaluation of a peptide containing a TRAF6-binding sequence*”, Thesis supervised by Doctor João Galamba Correia and Doctor Rita Melo, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, June, 2019.
- Member of the Jury to discuss the final project in Chemistry Degree of Rafaela Farelo Silva Tenera Marques, entitled “*New Fe(III) and Co(II) Complexes with Ligands Derived from Hydrazides*”, Thesis supervised by Doctor Paulo Martinho. Faculdade de Ciências da Universidade de Lisboa, July, 2018.

President

- President of the Jury to discuss the final project in Chemistry Degree of Marcelo Nunes, entitled “*Síntese e caracterização de complexos de Molibdénio como sistemas de libertação de CO para o tratamento do cancro*”, Thesis supervised by Doctor Leonor Cortê-Real and Andreia Valente. Faculdade de Ciências da Universidade de Lisboa, September, **2020**.
- President of the Jury to discuss the final project in Chemistry Degree of Mónica Miranda, entitled “*Study of the antimicrobial activity of compounds derived from sugars*”, Thesis supervised by Professor Doctor Amélia Pilar Rauter. Faculdade de Ciências da Universidade de Lisboa, July, **2020**.
- President of the Jury to discuss the final project in Chemistry Degree of Ana Rita Reis, entitled “*Luminescent iron (III) compounds for spin transition*”, Thesis supervised by Doctor Paulo Martinho and Marta Saraiva. Faculdade de Ciências da Universidade de Lisboa, July, **2020**.

Board Commissions

- Member of Topic Board/Topic Editors of Pharmaceutics (IF 4.421, ISSN 1999-4923)., since 2020, [link](#).
- Member of Topic Board/Topic Editors of Molecules (IF 3.267, ISSN 1420-3049) since 2020, [link](#).
- Member of editorial board of Journal of Pharmacology and Pharmaceutical Research, since 2017, [link](#).

Editorial Activity

Guest Editor

- Acting as **Lead Guest Editor** of the special issue “Rational Drug Design of Metal Complexes for Cancer Therapy” from *Frontiers in Chemistry*, **2021**– ongoing. [link](#)
- Acting as **Lead Guest Editor** of the special issue “Target-Specific Delivery of Gold and Ruthenium Complexes to Cancer Cells: Where Are We?” from *Molecules and Chemistry (MDPI)*, **2021** – ongoing. [link](#)
- Acting as **Lead Guest Editor** for *Anti-Cancer Agents in Medicinal Chemistry*, Bentham Science, **2020**.
- Acting as **Lead Guest Editor** for *Journal of Chemistry*, Hindawi, **2020**. [link](#)
- **Guest Editor** of the special issue “1st CQE Days Meeting: 44 Years Connecting People and Chemistry” from *Molecules*, **2020**. [Link](#)

Book co-editor

- “*29th International Carbohydrate Symposium, Book of Abstracts*”, Amelia P. Rauter, Ana M. Matos, Rafael Nunes, João Pais, Nuno M. Xavier, Rita G. Pereira, Maria T. Blázquez-Sánchez, Filomena Martins, **Tânia S. Morais**, Ana P. Paiva, Teresa Pamplona, Luísa Roseiro, Maria Soledade Santos, Ana I. Tomaz, Ana P. Carvalho, Eduarda Araújo, Christopher Maycock, Carlos Borges, Eds., July **2018**.

Organization of Scientific Meetings/Seminars and Management

Member of Scientific Committee

- “*3rd edition of the CQE Days – Spring Meeting 2021*”, May 27-28, **2021**, Lisbon, Portugal. – ongoing.
- “*1st edition of the CQE Days – Spring Meeting 2019*”, May 30-31, **2019**, Lisbon, Portugal. [Link](#)

Member of Organizing Committee

- “3rd edition of the CQE Days – Spring Meeting 2021”, May 27-28, **2021**, Lisbon, Portugal. – ongoing.
- “Global Summit on Cancer Research and Therapy – 2020”, October 29 – 30, 2020, Valencia, Spain. [Link](#)
- “1st edition of the CQE Days – Spring Meeting 2019”, May 30-31, **2019**, Lisbon, Portugal. [Link](#).
- “International Year of Periodic Table 2019, celebrate 150 years – DQB-FCUL”, several events from January to November 2019, Portugal. [Link](#)
- “International Conference on Cancer and Oncotherapy”, October 14 – 16, 2019, London, UK
- “29th International Carbohydrate Symposium”, July 15 -19, 2018, Lisbon, Portugal. [Link](#)

Seminars Organization

- Organizing committee of "Chem Forum@FCUL Centro de Química Estrutural" seminars: Monthly scientific seminars of Centro de Química Estrutural, covering several topics of Chemistry, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal (since **2020**)

Management

- Member of communication and image committee of CQE (since **2020**)
- Responsible for the CQE Newsletter (since **2020**)

Peer Reviewer

Data available at [Publons](#) (only from the accession date: October **2018**)

- Dalton Transactions, RSC
- Molecules, MDPI
- Pharmaceuticals, MDPI
- Frontiers in Chemistry
- Polyhedron, Elseviers
- Inorganica Chimica Acta, Elsevier
- Chemical Papers, Springer
- Anti-Cancer Agents in Medicinal Chemistry, Bentham Science Publishers
- Current Medicinal Chemistry, Bentham Science Publishers
- Journal of Chemistry, Hindawi
- Advances in Chemistry, Hindawi
- Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Elsevier
- International Journal of Molecular Sciences, MDPI
- Acta Chimica Slovenica, Slovenian Chemical Society

Outreach

Participation in several activities that promote interaction between the community and FCUL:

- European Researchers' Night 2020, European Commission, “Podem os metalofármacos ser uma boa aposta para a terapia do cancro?”, Ana Tomaz, Andreia Valente e Tânia Morais (CQE), Festival de Curtas - Química para Todos@ULisboa, November 27th, **2020** [link](#).
- FlashMob | Cerimónia de abertura do Ano Internacional da Tabela Periódica 2019
IYPT -International Year of the Periodic Table |

Flash mob involving both students and professors/researchers, each identified as an Element of the Periodic Table and performed on the Periodic Table paint located on the entrance of C8 building -FCUL. The event was filmed by air and on the ground. [Link](#), [photos](#), [Youtube](#)

- *Verão ULisboa*, **2018, 2019**;
- Dia Aberto DQB, FCUL, **2018, 2019**;
- *Ser Cientista*, FCUL, **2016**;
- *Open Lab Days* to secondary school students (since **2011** to **2018**);
- *Dia Aberto*, FCUL (since **2009** to **2018**).

Complementary Training

- “*Egas Moniz Symposium on Electron Microscopy, An Overview of Scientific Applications*”, Egas Moniz Cooperativa de Ensino Superior CRL, Monte da Caparica, Portugal, May 12nd, **2014**.
- “*1st International Summer School on Modern Chemistry*”, FCUL, Lisbon, Portugal, October 10 – 15, **2011**.
- “*Modern Methods of Structure and Elucidation 2010 (theoretical and practical components)*”, Instituto Superior Técnico, Lisbon, Portugal, December 13-17, **2010**.
- “*Biomolecular NMR from liquids to solids*”, Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Oeiras, December 2nd, **2009**.
- “*Brucker NMR user’s meeting-Portugal 2009*” Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Oeiras, December 3rd, **2009**.

Professional Membership

- Member of Marie Curie Alumni Association
- Member of Royal Society of Chemistry
- Member of The American Association for Advance of Science
- Member of College of Chemistry of ULisboa
- Member of Sociedade Portuguesa de Química

Scientific Collaborations

International

- **Germany**, *Technical University of Munich, Munich* – Prof. Angela Casini
- **Spain**, *Universitat Pompeu Fabra, Barcelona* – Prof. David Andreu
- **Uruguai**, *Facultat de Química, Universidad de la República Uruguay (UDELAR)* – Prof. Dinorah Gambino
- **Spain**, *Consejo Superior de Investigaciones Científicas (CSIC), Madrid* – Prof. María Jiménez López
- **Spain**, *Universitat de Barcelona* – Prof. Julia Lorenzo
- **Spain**, *Facultad de Ciencias, Universitat Corunã* – Prof. Fernando Avecilla Porto
- **Spain**, *Universitat de Barcelona* – Prof. Virtudes Moreno

National

- **Lisboa**, *Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa* – Prof. Alexandra Fernandes
- **Lisboa**, *Centro Tecnológico Nuclear, IST, Universidade de Lisboa* – Doctor João Galamba

- Lisboa, Centro Tecnológico Nuclear, IST, Universidade de Lisboa – Doctor Fernanda Marques
- Lisboa, Faculdade de Ciências da Universidade de Lisboa – Prof. Maria José Brito
- Lisboa, CQB, Faculdade de Ciências da Universidade de Lisboa – Doctor Paulo Costa
- Lisboa, CQB, Faculdade de Ciências da Universidade de Lisboa – Doctor Miguel Machuqueiro
- Lisboa, Egas Moniz – Cooperativa de Ensino Superior, CRL – Doctor António Matos
- Lisboa, Faculdade de Medicina da Universidade de Lisboa – Doctor in Medicine Francisco Tortosa
- Lisboa, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa – Prof. Pedro Baptista
- Lisboa, Instituto Superior Técnico, Universidade de Lisboa – Prof. Paula Robalo
- Lisboa, Centro Tecnológico Nuclear, IST, Universidade de Lisboa – Doctor Filipa Mendes
- Lisboa, Centro Tecnológico Nuclear, IST, Universidade de Lisboa – Doctor Lurdes Gano
- Porto, Instituto de Ciências Biomédicas, Universidade do Porto – Prof. Fátima Gärtner

Annex**List of Poster Communications in International/National Conferences**

37. João Franco Machado, Miguel Machuqueiro, Fernanda Marques, M. Paula Robalo, M. Fátima M. Piedade, **M. Helena Garcia**, João D. G. Correia, **Tânia S. Morais***, “*Ru-peptide conjugates for targeting metastatic breast cancer*”, 2nd CQE Days Spring Meeting (Virtual) May 28th – 29th, **2020**, Lisbon, Portugal.
36. Andreia Valente, **Tânia S. Morais**, Leonor Côrte-Real, Ana Isabel Tomaz, M. José Brito, M. Helena Garcia, “*Metallo drugs for cancer therapy: challenges and expectations*”, Ciências Research Day, October 30, **2019**, Lisbon, Portugal.
35. João Franco Machado, Margarida P. Pereira, M. Paula Robalo, M. Fátima M. Piedade, M. Helena Garcia, **Tânia S. Morais***, “*New ruthenium(II)-cyclopentadienyl complexes for cancer therapy: synthesis, characterisation and interaction with human serum albumin*”, 4Th Meeting of the College of Chemistry (4ECQUL) - Chemistry: Shaping The Future, June 16th-19th, **2019**, Lisbon, Portugal.
34. Fernanda Marques, Sílvia A. Sousa, Jorge H. Leitão, **Tânia S. Morais**, Yann Le Gal, Dominique Lorcy, “*Gold(III) dithiolate complexes: molecular conductors that also exhibit antitumor and antimicrobial activities*”, 4th International Congress of CiiEM 2019 on Health, Well-Being and Ageing in the 21st Century, June 2-5th, **2019**, Caparica, Portugal.
33. Margarida P. Pereira, João Franco Machado, M. Fátima M. Piedade, M. Helena Garcia, **Tânia S. Morais***, “*Synthesis and characterization of a new family of ruthenium(II) complexes with phenantroline derivated ligands for anticancer applications*”, poster P21, 1st CQE Days – Spring Meeting 2019, May, 30-31st, **2019**, Lisbon, Portugal.
32. João Franco Machado, Fernanda Marques, M. Fátima M. Piedade, Maria J. Villa de Brito, M. Helena Garcia, **Tânia S. Morais***, “*New selective Copper(I) complexes for prostate cancer cells*”, poster P22, 1st CQE Days – Spring Meeting 2019, May, 30-31st, **2019**, Lisbon, Portugal.
31. **Tânia S. Morais**, Catarina Bravo, João Franco Machado, Nuno Xavier, M. José Villa de Brito, M. Helena Garcia, “*Synthesis and characterization of new copper(I) complexes comprising carbohydrates for cancer therapy*”, 29th International Carbohydrate Symposium (ICS2018), poster P-MD30, July 14-19th, **2018**, Lisbon, Portugal.
30. João Franco Machado, Inês D. Ribeiro, Maria José Villa de Brito, M. Fátima M. Piedade, Maria Helena Garcia, **Tânia S. Morais***, “*Synthesis and structural characterisation of a new family of copper(I)-phosphane complexes for cancer therapy*”, 3RD Meeting of the College of Chemistry (3ECQUL), poster L&H.P24, June 27-29th, **2018**, Lisbon, Portugal.
29. Catarina Bravo, M. Paula Robalo, Fernanda Marques, M. Fátima Minas da Piedade, Maria Helena Garcia, Maria José Villa de Brito, **Tânia S. Morais***, “*Heterobimetallic Cu(I)-Fe(II) complexes with NN-, NO-, NS-*

heteroaromatic ligands for cancer therapy: a combined structural, electrochemical and biological study”, 3RD Meeting of the College of Chemistry (3ECQUL), poster L&H.P9, June 27-29th, **2018**, Lisbon, Portugal.

28. Filipa D. de Oliveira, João Freire, M. Paula Robalo, M. Fátima M. Piedade, David Andreu, Ana Salomé Veiga, M. Helena Garcia, Miguel A. R. B. Castanho, Diana Gaspar, **Tânia S. Morais**, “*Study of cell penetrating peptides as drug delivery systems for chemotherapeutic drugs and their anticancer properties*”, A Química na Investigação da ULisboa – 1^o Encontro do Colégio de Química (1ECQUL), July 20-21st, **2017**, Lisbon, Portugal.

27. Miguel Freitas, **Tânia S. Morais**, Nuno Xavier, M. Helena Garcia, “*New Ruthenium(II) Complexes Comprising Carbohydrates for cancer therapy: Synthesis and characterization*”, ChemBioChem, February 9th, **2017**, Lisbon, Portugal.

26. António P. Matos, Lurdes Gano, Francisco Tortosa, Teresa Pinheiro, **Tânia S. Morais**, Andreia Valente, Ana Isabel Tomaz, Maria Helena Garcia, Fernanda Marques, “*Microscopic Analysis of the Antitumor Effects of Ruthenium Complexes in a Prostate Cancer Model*”, Congresso Internacional From Basic Sciences to Clinical Research (First International Congress of CiiEM) Poster 62, November 27-28th, **2015**, Almada, Portugal.

25. Ana Cristina Poeta, A. Sofia Assis, Andreia Valente, **Tânia S. Morais**, Fernanda Marques, M. Paula Robalo, Susana Santos, Ana Isabel Tomaz, M. Helena Garcia, “*On the field of metallodrugs: novel ruthenium(II) complexes with thiosemicarbazones*”, 19th European Symposium on Organic Chemistry (ESOC2015), July 12-16, **2015**, Lisbon, Portugal.

24. Miguel de Freitas, **Tânia S. Morais**, Nuno M. Xavier, Maria Helena Garcia, “*Synthesis of new ruthenium cyclopentadienyl complexes comprising carbohydrate ligands as potential antitumor agents*”, 19th European Symposium on Organic Chemistry (ESOC2015), July 12-16, **2015**, Lisbon, Portugal.

23. Fernanda Marques, Leonor Côrte-Real, **Tânia S. Morais**, Maria Helena Garcia, António Matos, Manuel Bicho, “*Ruthenium based anticancer compounds: Insights into their uptake mechanisms and cellular targets*”, 4th World Congress on Cancer Science & Therapy, October 20-22, **2014**, Chicago, USA.

22. **Tânia S. Morais**, Fernanda Marques, M. Paula Robalo, Paulo J. A. Madeira, António Matos, M. Helena Garcia, “*New water soluble ruthenium(II)cyclopentadienyl compound as potencial anticancer agent*”, EFMC International Symposium on Medicinal Chemistry, poster V040, September 7-11, **2014**, Lisboa, Portugal.

21. Esteban Rodriguez Arce, Cynthia Sarniguet, **Tânia S. Morais**, Isabel Tomaz, Andrea Medeiros, Marcelo Comini, Javier Varela, Mercedes González, Hugo Cerecetto, Fernanda Marques, M. Helena Garcia, Lucía Otero, Dinorah Gambino, “*Actividad en Líneas de Células Tumorales y Parásitos Trypanosomátidos de un Compuesto Organometálico Rutenio Clotrimazol*”, XV Jornadas de la Sociedad Uruguaya de Biociencias, September 5-7, **2014**, Maldonado, Uruguay.

20. Fernanda Marques, António P. Matos, Leonor Côrte-Real, **Tânia S. Morais**, M. Helena Garcia, “*Novel Pathways for Anticancer Therapy: the Role of Golgi network in the mechanism of cell death of organometallic Ru complexes*”, Microscopy in Research, December 9-10, **2013**, Egas Moniz Cooperativade Ensino Superior CRL, Monte da Caparica, Almada, Portugal.

19. M. Helena Garcia, **Tânia S. Morais**, Ana Isabel Tomaz, Andreia Valente, Fernanda Marques, “*Cyclopentadienyl ruthenium(macro)metallodrugs: large spectrum antitumor agentes*”, Drug Discovery & Therapy World Congress, June 3-6, **2013**, Boston, EUA. - **awarded the First Prize out of a total of 380 presentations.**

18. Cynthia Sarniguet, **Tânia S. Morais**, Ana Isabel Tomaz, Andrea Medeiros, Marcelo Comini, Lucía Otero, M. Helena Garcia, Dinorah Gambino, “*New ruthenium(II) cyclopentadienyl thiosemicarbazone complexes with antitrypanosomal activity*”, 12th International Symposium on Metal Ions and Medicine, poster 119, March 11-13, **2013**, Punta del Este, Uruguay.

17. Andreia Valente, M. Helena Garcia, **Tânia S. Morais**, Fernanda Marques, Yong Miao, Philippe Zinck, “*New targeted bifunctional polymeric metal complexes for drug delivery in cancer therapy*”, 3rd National Meeting on Medicinal Chemistry, November 25-27, **2012**, Aveiro, Portugal.

16. **Tânia S. Morais**, M. Helena Garcia, Ana Isabel Tomaz, Fernanda Marques, Filipa Mendes, “*New antitumor ruthenium(II) organometallic complexes: cytotoxicity and protein interaction*”, XXV International Conference on Organometallic Chemistry (ICOMC 2012), Poster PB.213, September 2-7, **2012**, Lisbon, Portugal.
15. **Tânia S. Morais**, M. Helena Garcia, Ana I. Tomaz, Fernanda Marques, Filipa Mendes, “*New anti-tumour ruthenium(II) organometallic complexes: cytotoxicity and protein interaction*”, International Symposium on Metal Complexes, ISMEC 2012, June 18-22, **2012**, Lisbon, Portugal.
14. **Tânia S. Morais**, M. Helena Garcia, Ana Isabel Tomaz, Fernanda Marques, M. Paula Robalo, Paulo J. Amorim Madeira, “*New ruthenium(II) cyclopentadienyl compounds: cytotoxicity and proteins binding*”, 11 International Symposium and Applied Bioinorganic Chemistry, December 2-5, **2011**, Barcelona, Spain.
13. M. Helena Garcia, **Tânia S. Morais**, M. Paula Robalo, M. José Villa de Brito, “*New piano-stool ruthenium(II) complexes bearing 1-butylimidazole heteroaromatic ligand*”, XIX EuCheMS Conference on Organometallic Chemistry, July 3-7, **2011**, Toulouse, France.
12. **Tânia S. Morais**, M. Helena Garcia, Paulo J. Amorim Madeira, M. Helena Florêncio, Virtudes Moreno, “*Interaction of new ruthenium(II) cyclopentadienyl compounds with proteins*”, XXII National Meeting SPQ, July 3-6, **2011**, Braga, Portugal.
11. Paulo J. Amorim Madeira, **Tânia S. Morais**, M. Helena Garcia, M. Helena Florêncio, “*Gas-phase behaviour of ruthenium(II) cyclopentadienyl derivatives: an FT-ICR mass spectrometry study*”, XXII National Meeting SPQ, July 3-6, **2011**, Braga, Portugal.
10. **Tânia S. Morais**, M. Helena Garcia, Ana Isabel Tomaz, Paulo J.A. Madeira, M. Helena Florêncio, Fernanda Marujo Marques, “*Novos compostos de “Ru(II)(eta5-C5H5)” como potenciais agentes anti-tumorais*”. Posterat Ciência QB-1º Encontro dos Alunos de Doutoramento do DQB – FCUL, June 7th, **2011**, Lisbon, Portugal
9. **Tânia S. Morais**, M. Helena Garcia, M. Paula Robalo, Andreia Valente, Virtudes Moreno, Mercè Font-Bardia, Teresa Calvet, Julia Lorenzo, Francesc X. Avilés, “*Cytotoxicity studies and DNA interaction of new ruthenium(II) cyclopentadienyl complexes with nitrogen coordinated ligands*”, XII Iberic Meeting of electrochemistry & XVI Meetinf of the Portuguese Electrochemical Society (XII IME), PB10, September 8-11, **2010**, Lisbon, Portugal.
8. Susana Quintal, **Tânia S. Morais**, Paula Robalo, Fátima Piedade, Maria José Villa de Brito, Maria Helena Garcia, João Madureira, Maria Marques, Carla Maia, Lenea Campino, “*Design of Ferrocenyl Compounds with Leishmanicidal Activity*”, XV Brazilian Meeting on Inorganic Chemistry (XV BMIC), August 16-19, **2010**, Angra dos Reis, Brasil.
7. Ana Isabel Tomaz, Tamás Jakusch, **Tânia S. Morais**, Rodrigo F. M. de Almeida, Fernanda Marques, A. Enyedy, João Costa Pessoa, Tamás Kiss, M. Helena Garcia, “*Interaction of cytotoxic ruthenium(II) cyclopentadienyl complexes with serum albumin*”, 10th European Biological Inorganic Chemistry Conference (EUROBIC 2010), June 22-26, **2010**, Thessalonica, Greece.
6. Ana Isabel Tomaz, Tamás Jakusch, **Tânia S. Morais**, M. Helena Garcia, A. Enyedy, João Costa Pessoa, Tamás Kiss, “*Human Albumin Binding to Cytotoxic Ruthenium(II) Cyclopentadienyl-type Complexes*”, 10th International Symposium on Applied Bioinorganic Chemistry (ISABC 10), September 25-28, **2009**, Debrecen, Hungry.
5. **Tânia S. Morais**, M. Helena Garcia, Pedro Florindo, João Ribeiro, M. Paula Robalo, Virtudes Moreno, Julia Lorenzo, Francesc X. Avilés, “*Studies of the antiproliferative activity of ruthenium(II) cyclopentadienyl derived complexes with nitrogen coordinated ligands*”, 8th Inorganic Chemistry Conference, October 16-17, **2009**, Curia, Portugal.
4. Maria J. Villa de Brito, **Tânia S. Morais**, João Madureira, Susana Quintal, M. Helena Garcia, “*Synthesis and characterization of new ferrocenylamide compounds with appended N-heterocycles designed for Leishmanicidal activity*”, 8th Inorganic Chemistry Conference, October 16-17, **2009**, Curia, Portugal.

3. M. Fátima M. Piedade, M. Helena Garcia, Andreia Valente, Pedro Florindo, **Tânia S. Morais**, M. Teresa Duarte, “*Molecular and crystal structures of new ruthenium(II) mixed metallocene derived complexes*”, 8th Inorganic Chemistry Conference, October 16-17, **2009**, Curia, Portugal.
2. M. Helena Garcia, **Tânia S. Morais**, Andreia Valente, M. Paula Robalo, Virtudes Moreno, Julia Lorenzo, Francesc X. Avilés, “*DNA interaction and cytotoxicity studies of new ruthenium(II) cyclopentadienyl derivative complexes containing heteroaromatic ligands*”, XVIII EuCheMS International conference on Organometallic Chemistry, Jun 22-25, **2009**, Goteborg, Sweden.
1. M. Helena Garcia, Andreia Valente, **Tânia S. Morais**, Pedro Florindo, M. Fátima M. Piedade, Virtudes Moreno, “*Studies on DNA interaction of new mixed metallocene ruthenium(II) derived complexes*”, International Conference on Organometallic Chemistry, P453, July 13-18, **2008**, Rennes, France.