

ARTUR MANUEL SOARES DA SILVA

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Completed the Título de Agregado in N/A in 1999/06/28 by Universidade de Aveiro, Doutoramento in PhD in Chemistry in 1993/07/31 by Universidade de Aveiro and Licenciatura in Ensino em Física e Química in 1987/06/25 by Universidade de Aveiro.

Is Full Professor in Universidade de Aveiro, President in Sociedade Portuguesa de Química and Comissão Diretiva do Grupo de Química Terapêutica da Sociedade Portuguesa de Química in Sociedade Portuguesa de Química.

Published 635 articles in journals. Has 37 section(s) of books and 1 book(s). Has 3 patent(s) registered. Participated in 27 event(s). Supervised 25 PhD thesis(es) e co-supervised 11. Supervised 36 MSc dissertation(s) e co-supervised 7. Has received 6 awards and/or honors.

Works in the area(s) of Exact Sciences with emphasis on Chemical Sciences with emphasis on Organic Chemistry and Medical and Health Sciences with emphasis on Basic Medicine with emphasis on Medicinal Chemistry. In their professional activities interacted with 1382 collaborator(s) co-authorship of scientific papers.

In his curriculum Ciência Vitae the most frequent terms in the context of scientific, technological and artistic-cultural output are:

Organic Synthesis; Natural products; Heterocyclic Compounds; Phenolic Compounds; Biological activity; Osteosarcoma; Drug Discovery; Fisetin derivatives; Metastasis; C-glycosylated polyphenols; New synthesis methods; Epigenetic Modulators; Cancer; Macroalgae; Florotannins; Bioavailability; Bioactivity; DNA nucleobases/molecular recognition; Macromolecules of natural origin; Layer-by-layer deposition technique; Regenerative medicine; 2-Styrylchromones; Rheumatoid arthritis; Chemical synthesis; Inflammation; Antidiabetic agents; Flavonoids; Rational drug design; macroalgae; pasta; health; nutrition; Biorefinery; By-products and waste; New extraction and conversion processes; Bioproducts; Oxygenated and nitrogenated heterocycles; Hybrid organic-inorganic compounds; Anticancer and antitumor activity; Heart failure with ejection fraction...; Aging; Systems Biology; Therapy; vine and wine by-products; polyphenols; encapsulation; Food matrix applications; crystal engineering; halogen bonds; phosphorescence; OLED; Seaweed; Marine natural products; Biological activity;

Identification

Personal identification

Full name

ARTUR MANUEL SOARES DA SILVA

Gender

Male

Birth date

1963/06/27

Citation names

Silva, Artur

Author identifiers

Ciência ID

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Websites

<https://sites.google.com/site/artursilva/> (Professional)

Knowledge fields

Exact Sciences - Chemical Sciences - Organic Chemistry

Medical and Health Sciences - Basic Medicine - Medicinal Chemistry

Languages

Language	Speaking	Reading	Writing	Listening	Peer
Spanish; Castilian	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	
Portuguese	Advanced (C1)	Advanced (C1)	Advanced (C1)	Advanced (C1)	
French	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	
English	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	Intermediate (B1)	

Education

	Degree	Classification
1999/06/28 Concluded	N/A (Título de Agregado) Major in Chemistry	Unanimida (unanimity members)
	Universidade de Aveiro, Portugal	
	<i>"2-Phenyl and 2-styrylcromones synthesis and transformation in other heterocyclic compounds" (THESIS/DISSERTATION)</i>	

1993/07/31 Concluded	PhD in Chemistry (Doutoramento) Major in Outra: Organic Chemistry	Distinção e (the maxim
	Universidade de Aveiro, Portugal <i>"Synthesis and structural characterisation of flavonoids and related compounds" (THESIS/DISSERTATION)</i>	
1987/06/25 Concluded	Ensino em Física e Química (Licenciatura)	14 valores
	Universidade de Aveiro, Portugal <i>"NA" (THESIS/DISSERTATION)</i>	

Affiliation

Teaching in Higher Education

	Category Host institution/organization	Employer
2001/02/01 - Current	Full Professor (University Teacher)	Universidade de Aveiro, Portugal

Positions / Appointments

	Category Host institution/organization	Employer
2016/07/13 -	President Sociedade Portuguesa de Química, Portugal	Sociedade Portuguesa de Química
2018/05/08 - 2022/05/07	Vice-Rector Universidade de Aveiro, Portugal	Universidade de Aveiro, Portugal
2016 - 2018	Coordenação ou direção de centro de investigação, departamento ou equivalente	Universidade de Aveiro, Portugal
2013 - 2018	Conselho geral ou órgão correspondente	Universidade de Aveiro, Portugal
2013/06/25 -	Vice-President Sociedade Portuguesa de Química, Portugal	Sociedade Portuguesa de Química

Others

Category	Employer
Host institution/organization	
2013/02/01 - 2018/05/07	Presidente do Conselho da Escola Doutoral da Universidade de Aveiro Universidade de Aveiro, Portugal
2007/01/01 -	Comissão Diretiva do Grupo de Química Terapêutica da Sociedade Portuguesa de Química Sociedade Portuguesa de Química, Portugal

Projects**Grant**

	Designation	Funders
2014/01 - 2015/12	Incentive - UI 62 - 2014 grant.Provided by PTCRIS: 137371	Stichting Netherlar
2014/03 - 2015/02	Synthesis of Luminescent Organic Devices using Molecular Tectonics grant.Provided by PTCRIS: 134066	Stichting Netherlar
2010/06 - 2013/11	Development of Organic Synthesis Methodologies Based on an Ohmic Heating Reactor. grant.Provided by PTCRIS: 102454	Stichting Netherlar
2010/06 - 2013/11	Bioactive products in marine algae of Azores (AzoAlg) grant.Provided by PTCRIS: 100482	Stichting Netherlar

2007/09 - 2011/02	New Methodologies to Study the Taste of Foods: Interpretation of Food Astringency 67579 Provided by PTCRIS: 67579	Universid Coimbra,
2008/01 - 2010/12	Reactions between catechins and anthocyanins: Synthesis of new pigments 67681 Provided by PTCRIS: 67681	Universid Coimbra,
2007/03 - 2010/10	FOOD NEOCOLORS - Synthesis and physical-chemical characterization of new anthocyanin-derived pigments with potential application in the Food Industry grant.Provided by PTCRIS: 65503	Stichting Netherlar
2007/01 - 2009/06	New Corrole Derivatives: Synthetic and Reactivity Studies grant.Provided by PTCRIS: 83376	Stichting Netherlar
2007/01 - 2009/03	Synthesis of chromones and in vitro evaluation of their antioxidant and anti-inflammatory properties grant.Provided by PTCRIS: 82720 grant.Provided by PTCRIS: 59284	Stichting Netherlar
2005/07 - 2008/12	Sensorial Impact of 3-hidroxy-4,5-dimethyl-2(5H)-furanone as the "Perceived Age" of Aged Port Wine. Mechanisms of formation. grant.Provided by PTCRIS: 61020	Stichting Netherlar
2005/09 - 2008/08	Synthesis, transformation and reactivity studies of novel 2- and 3-substituted 4-quinolones grant.Provided by PTCRIS: 58835	Stichting Netherlar
2005/10 - 2007/07	New Corrole Derivatives: Synthetic and Reactivity Studies grant.Provided by PTCRIS: 57589	Stichting Netherlar

Contract

	Designation	Funders
2019/12/01 -	Desenvolvimento de novos inibidores do osteossarcoma invasivo baseados em derivados da fisetina PTDC/MED-QUI/29243/2017	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal Universidade do Porto, Portugal	Ongoing
2018/07/16 -	Novos compostos heterocíclicos de nitrogénio e oxigénio C-glicosilados como potenciais agentes anticancerígenos com ação epigenética imunoestimuladora PTDC/QUI-QOR/29767/2017	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal	Ongoing
2018/07/15 -	Florotaninos de algas castanhas: da biodisponibilidade ao desenvolvimento de novos alimentos funcionais PTDC/BAA-AGR/31015/2017	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal	Ongoing
2018/06/22 - 2021/06/21	Dispositivos Supramoleculares Auto-Regulados baseados na Complementaridade dos Pares de Base do ADN: Uma Tecnologia Biomimética e com Reconhecimento Molecular para Isolar Células Específicas para Aplicações Biomédicas PTDC/QUI-OUT/30658/2017	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal	Ongoing
2018/06/01 -	2-Estirilcromonas no tratamento da artrite reumatoide: possível alternativa terapêutica? PTDC/MED-QUI/29253/2017	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal Universidade do Porto, Portugal	Ongoing
2018/06/01 -	Estudos interdisciplinares in silico, de síntese orgânica, in vitro e in vivo para desenvolvimento de novas estruturas de flavonoides com atividade antidiabética PTDC/MED-QUI/29241/2017	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal Universidade do Porto, Portugal	Ongoing

2017/01 - 2020/12	pAge project: Life-long protein aggregation Centro-01-0145-FEDER-000003	Ministério Tecnológico Superior,
2017/01 - 2020/12	GENIALG - GENetic diversity exploitation for Innovative macro- ALGal biorefinery Call H2020-BG-2016-1; Contract (GA) number – 727892	European Commissi
2017/01 - 2020/12	GENIALG - GENetic diversity exploitation for Innovative macro- ALGal biorefinery Call H2020-BG-2016-1; Contract (GA) number – 727892	European Commissi
2016/12/01 -	Novos alvos na insuficiência cardíaca diastólica: das comorbilidades à medicina personalizada SAICTPAC/0047/2015 Universidade do Porto Faculdade de Medicina, Portugal Instituto de Biologia Experimental e Tecnológica, Portugal Universidade de Aveiro, Portugal Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal Universidade do Porto Instituto de Biologia Molecular e Celular, Portugal Universidade do Porto Instituto de Patologia e Imunologia Molecular, Portugal	Fundação Ciência e Tecnologi Ongoing
2017/01/01 - 2020/06/30	Estratégias multiuso para a valorização de uma gama alargada de subprodutos agroflorestais e das pescas: Um passo em frente na criação de uma biorrefinaria integrada SAICTPAC/0040/2015 Universidade de Aveiro, Portugal Instituto de Biologia Experimental e Tecnológica, Portugal Universidade Católica Portuguesa, Portugal Universidade do Minho, Portugal Universidade de Coimbra, Portugal Associação para a Inovação e Desenvolvimento da FCT, Portugal	Fundação Ciência e Tecnologi Ongoing
2017/04 - 2020/03	AgroForWealth: Biorefining of agricultural and forest by-products and wastes: integrated strategic for valorisation of resources towards society wealth and sustainability CENTRO-01-0145-FEDER-000001	Ministério Tecnológico Superior,

2017/01/01 -	Chemotipos orgânicos e inorgânicos como fármacos anticancerígenos e antitumorais PT-DZ/0005/2015	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal Universidade de Aveiro Unidade de Investigação de Química Orgânica Produtos Naturais e Agroalimentares, Portugal	Ministério Tecnologi Superior, Conclude
2007/01 - 2019/12	Multi-purpose strategies for broadband agro-forest and fisheries by-products valorisation: a step forward for a truly integrated biorefinery SAICTPAC/0040/2015 - POCI-01-0145-FEDER-016403 SAICTPAC/0040/2015- POCI-01-0145-FEDER-016403	Ministério Tecnologi Superior,
2016/12 - 2019/11	NETDIAMOND - New Targets in Diastolic heart failure: from comorbidities to personalized medicine SAICTPAC/0047/2015 - POCI-01-0145-FEDER-016385	Ministério Tecnologi Superior,
2017/09/18 -	Alimentação saudável de massa com algas SAICT-POL/23780/2016	Fundação Ciência e Tecnologi
	Instituto Politécnico de Coimbra, Portugal Universidade de Aveiro, Portugal	Conclude
2016/06/01 - 2019/06/01	VINE&WINE RESIDUES: Fontes ilimitadas de compostos polifenólicos para aplicação em Alimentos Funcionais. PTDC/AGR-TEC/2789/2014	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal Associação para a Inovação e Desenvolvimento da FCT, Portugal	Conclude
2017/09 - 2019/02	HEPA-Healthier eating of pasta with algae IC&DT- SAICT 02/SAICT/2016 Nr 023780	Ministério Tecnologi Superior,
2016/01 - 2018/12	SHARP – Seaweed for Healthier Traditional Food Products POCI-01-0247-FEDER-003419	Ministério Tecnologi Superior,

2013/01 - 2015/06	New Strategies Applied to Neuropathological Disorders CENTRO-07-ST24-FEDER-002034	Comissão Coordena Desenvol Regional Portugal
2014/03/01 - 2015/02/28	Síntese de Dispositivos Organicos Luminescente usando Tectónica Molecular EXPL/QEQ-SUP/1041/2013 Universidade de Aveiro, Portugal Universidade de Aveiro Unidade de Investigação de Química Orgânica Produtos Naturais e Agroalimentares, Portugal	Fundação Ciência e Tecnologi Conclude
2013/01 - 2014/12	Research Unit - Strategic project FCOMP-01-0124-FEDER-037296 (FCT PEst-C/QUI/UI0062/2013)	Universid Coimbra,
2010/06/01 -	Produtos com potencial actividade biológica extraídos de algas do mar dos Açores (AzoAlg) PTDC/MAR/100482/2008 Centro de Investigação Marinha e Ambiental, Portugal Universidade de Aveiro, Portugal Fundação Gaspar Frutuoso, Portugal	Fundação Ciência e Tecnologi Conclude
2010/06/01 -	Desenvolvimento de Metodologias de Síntese Orgânica Baseadas num Reactor de Aquecimento Óhmico. PTDC/QUI-QUI/102454/2008 Universidade de Aveiro, Portugal Universidade de Aveiro Unidade de Investigação de Química Orgânica Produtos Naturais e Agroalimentares, Portugal Universidade do Minho, Portugal Universidade do Porto Faculdade de Ciências, Portugal Universidade do Porto Instituto de Ciências e Tecnologias Agrárias e Agro-Alimentares, Portugal	Fundação Ciência e Tecnologi Conclude
2008/12 - 2012/11	Natural Products and related Redox Catalysts: Basic Research and Applications in Medicine and Agriculture ITN 215009	European Commissi

2007/09/01 - 2011/02/28	Novas Metodologias para o Estudo do Sabor de Alimentos: Interpretação do Fenómeno da Adstringência PTDC/AGR-ALI/67579/2006	Fundação Ciência e Tecnologi
	Universidade do Porto Faculdade de Ciências, Portugal Universidade do Porto Centro de Investigação em Química, Portugal Universidade de Aveiro, Portugal Universidade do Minho, Portugal	Conclunde
2008/01/01 -	Reacções entre catequinas e antocianinas: Síntese de novos pigmentos PTDC/QUI/67681/2006	Fundação Ciência e Tecnologi
	Universidade do Porto Faculdade de Ciências, Portugal Universidade do Porto Centro de Investigação em Química, Portugal Universidade de Aveiro, Portugal	Conclunde
2007/03/01 -	FOOD NEOCOLORS - Síntese e caracterização físico-química de novos pigmentos derivados de antocianinas com potencial aplicação na Indústria Alimentar PTDC/AGR-ALI/65503/2006	Fundação Ciência e Tecnologi
	Universidade do Porto Faculdade de Ciências, Portugal Universidade do Porto Centro de Investigação em Química, Portugal Universidade de Aveiro, Portugal Universidade do Porto Instituto de Ciências e Tecnologias Agrárias e Agro-Alimentares, Portugal	Conclunde
2005/07/01 - 2008/12/31	Impacto sensorial da 3-hidroxi-4,5-dimetil-2(5H)-furanona na "idade tecnologica" do vinho do Porto. Mecanismos de formação POCI/AGR/61020/2004	Fundação Ciência e Tecnologi
	Universidade Católica Portuguesa, Portugal Universidade Católica Portuguesa Escola Superior de Biotecnologia, Portugal Universidade de Aveiro, Portugal	Conclunde
2005/09/01 - 2008/08/31	Estudos de síntese, transformação e reactividade de novos derivados de 4-quinolonas POCI/QUI/58835/2004	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal Universidade de Aveiro Unidade de Investigação de Química Orgânica Produtos Naturais e Agroalimentares, Portugal	Conclunde

2005/09/01 - 2008/06/30	Síntese de cromonas e avaliação, in vitro, das suas propriedades antioxidantes e anti-inflamatórias POCI/QUI/59284/2004	Fundação Ciência e Tecnologi
	REQUIMTE LAQV Porto, Portugal Universidade do Porto Instituto de Ciências e Tecnologias Agrárias e Agro-Alimentares, Portugal Universidade de Aveiro, Portugal	Conclude
2005/10/01 - 2007/07/01	Novos Derivados de Corrol: Estudos de Síntese e Reactividade POCI/QUI/57589/2004	Fundação Ciência e Tecnologi
	Universidade de Aveiro, Portugal Universidade de Aveiro Unidade de Investigação de Química Orgânica Produtos Naturais e Agroalimentares, Portugal	Conclude
2002/03 - 2005/02	Study of the reactivity and transformations of styrylchromones and related compounds POCTI/QUI/38394/2001	Universid Coimbra,

Outputs

Publications

Book	1	Silva, Artur (coord.); Teixeira, António (coord.). <i>Research Summit 2021: book of UA</i> Editora. 2021. 10.48528/qdpf-e229
	2	Silva, Artur. <i>Chemistry, Biology and Potential Applications of Honeybee Plant-Dei Products</i> . Sharjah, United Arab Emirates: Bentham Science Publishers. 2016. Published • Editor
Book chapter	1	Albuquerque, Hélio; Santos, Clementina M.M.; Silva, Artur. "Cholesterol chemist laboratory synthesis". Elsevier, Academic Press, 2022. 10.1016/B978-0-323-85857-1.00007-9
	2	Santos, Clementina M.M.; Silva, Artur. "Recent advances in the synthesis of 4H-c ones (2012 - 2021)". Elsevier, 2022. 10.1016/bs.aihch.2022.02.001
	3	Santos, Clementina M.M.; Silva, Artur; Clementina M.M. Santos, Artur M. S. Silva A.M.S.; Tomé, A.C.. "Eight-membered rings with one oxygen atom". In <i>Heterocyc Review of The Literature 1995-2007</i> , edited by David Black, Janine Cossy, Christ A. R. Katritzky, C. A. Ramsden, E. F. V. Scriven, R. J. K. Taylor, 49-88. Oxford, Unit Kingdom: Elsevier, 2022. Published • 10.1016/B978-0-12-409547-2.14816-4

- 4 Clementina M.M. Santos, Artur M. S. Silva. "Eight-membered Rings with One Ox", edited by David Black, Janine Cossy, Christian Stevens, 44-88. United Kingdom: 2022.
- 5 Clementina M. S. Santos, Artur M. S. Silva. Corresponding author: Clementina M. S. Santos, Artur M. S. Silva. "Six-Membered Ring Systems: With O and/or S Atoms". In *Progress in Heterocyclic Chemistry*, edited by G. W. Gribble and J. A. Joule, 501-563. London, United Kingdom: Elsevier, 2021.
Published
- 6 Vasco F. Batista, Carlos F. M. Silva, Diana C. G. A. Pinto, Artur M. S. Silva. Corresponding author: Vasco F. Batista, Carlos F. M. Silva, Diana C. G. A. Pinto, Artur M. S. Silva. "Six-Membered Ring Systems: With O and/or S Atoms". In *Synthetic Approaches to Nonaromatic Heterocycles*, edited by A. M. Faisca Phillips, 325-68. Chichester - West Sussex, United Kingdom: John Wiley & Sons Ltd, 2021.
Published
- 7 Clementina M. S. Santos, Artur M. S. Silva. Corresponding author: Clementina M. S. Santos, Artur M. S. Silva. "Six-Membered Ring Systems: With O and/or S Atoms". In *Progress in Heterocyclic Chemistry*, edited by G. W. Gribble and J. A. Joule, 490-549. London, United Kingdom: Elsevier, 2021.
Published
- 8 Clementina M. S. Santos, Artur M. S. Silva. Corresponding author: Clementina M. S. Santos, Artur M. S. Silva. "Six-Membered Ring Systems: With O and/or S Atoms". In *Progress in Heterocyclic Chemistry*, edited by G. W. Gribble and J. A. Joule, 533-595. London, United Kingdom: Elsevier, 2020.
Published
- 9 Clementina M. S. Santos; Silva, Artur. "Six-Membered Ring Systems: With O and S Atoms". In *Progress in Heterocyclic Chemistry*, 533-595. London, United Kingdom: Elsevier, 2019.
Published
- 10 Gustavo da Silva; Rui Moreira; Silva, Artur. "Bioactive Quinolactacins and Structurally Related Pyrroloquinolones". In *Bioactive Natural Products*, 433-453. Amsterdam, Netherlands: Elsevier, 2019.
Published
- 11 Diana C. G. A. Pinto; Ana M. L. Seca; Susana M. Cardoso; Silva, Artur. "Seaweed Natural Products with Benefit Effects against Cardiovascular Diseases". In *Seaweed Bioactives: Health and Potential Application*. London, United Kingdom: CRC Press, 2018.
Published
- 12 Clementina M. S. Santos; Silva, Artur. "Six-Membered Ring Systems: With O and S Atoms". In *Heterocyclic Chemistry*, 427-491. London, United Kingdom: Royal Society of Chemistry, 2018.
Published
- 13 Diana Cláudia Gouveia Alves; Seca, Ana Maria Loureiro; Silva, Artur Manuel. "Insight Approaches of Medicinal Plants for the Discovery of Anticancer Drugs". In *Anticancer Plants: Clinical Trials and Nanotechnology*, edited by M. S. Akhtar, Anwar-ul-Haq Ali Shaheed, and M. S. Akhtar, 105-151. Springer Singapore, 2017.
Published • 10.1007/978-981-10-8216-0_4
- 14 Daniela Ferreira; Diana C. G. A. Pinto; Silva, Artur; Ana M. L. Seca. "Olea Europaea and Myths Regarding Cardiovascular Health". In *Herbal Medicine Back to the Future*, edited by Ed. F. Murad, Atta-ur-Rahman, and K. Bian, 57-128. Bentham Science Publishers, 2017.

Published • 10.2174/9781681084893117010005

- 15 Clementina M. S. Santos; Silva, Artur. "Six-Membered Ring Systems: With O and Atoms". In *Progress in Heterocyclic Chemistry*, edited by G. W. Gribble and J. A. Joule, 578. London, United Kingdom: Elsevier, 2017.

Published

- 16 Seca, Ana M.L.; Silva, Artur M.S.; Pinto, Diana C.G.A.. "Parthenolide and Parthenolide Sesquiterpene Lactones as Multiple Targets Drugs". In *Studies in Natural Product Chemistry*, edited by Atta-ur-Rahman, 337-372. Amsterdam, Netherlands: Elsevier, 2016.

Published • 10.1016/b978-0-444-63931-8.00009-6

- 17 Catarino, M.D.; Talhi, O.; Rabahi, A.; Silva, A.M.S.; Cardoso, S.M.. "The Antiinflammatory Potential of Flavonoids: Mechanistic Aspects". In *Food Research International*, edited by Atta-ur-Rahman, 65-99. Amsterdam, Netherlands: Elsevier, 2016.

Published • 10.1016/B978-0-444-63602-7.00003-5

- 18 Santos, C.M.M.; Silva, A.M.S.. "Six-Membered Ring Systems: With O and/or S Atoms". In *Magnetic Resonance in Food Science – A View to the Next Century*, edited by G. W. Gribble and J. A. Joule, 523-578. London, United Kingdom: Elsevier, 2016.

10.1016/B978-0-08-100755-6.00015-6

- 19 Clementina M. M. Santos; Silva, Artur. "Valuable Analytical Tools in Analysis of Plant-Derived Compounds: Nuclear Magnetic Resonance Spectroscopy". In *Chemical Biology and Potential Applications of Honeybee Plant-Derived Products*, edited by Artur; Susana M. Cardoso, 150-195. Sharjah, United Arab Emirates: BENTHAM PUBLISHERS, 2016.

Published • 10.2174/9781681082370116010008

- 20 Raquel S.G.R. Seixas; Vera L. M. Silva; Silva, Artur. "Metal-Catalysed Cross-Coupling Reactions". In *Synthesis and Modifications of Heterocycles by Metal-Catalyzed Cross-Coupling Reactions*, edited by T. Patonay and K. Kónya, 159-230. Switzerland: Springer, 2016.

Published

- 21 Soengas, Raquel G.; Tomé, Sara M.; Silva, Artur M. S.. "Reductive Ring-Opening in the Reactions of Carbohydrates". In *Domino and Intramolecular Rearrangement Reactions: Advanced Synthetic Methods in Glycoscience*, edited by Zbigniew J. Witczak and Irena Bielski, 49-75. John Wiley & Sons, Inc., 2016.

Published • 10.1002/9781119044222.ch3

- 22 Pinto, D.C.G.A.; Pereira, J.M.P.; Silva, A.M.S.. "Functional groups of biomolecules reactions". In *Food Research International*, edited by Nuno Vale, 2-43. Warsaw: Open Ltd, 2015.

Published • 10.1515/9783110468755-001

- 23 Santos, C.M.M.; Silva, A.M.S.. "Six-Membered Ring Systems: With O and/or S Atoms". In *Food Research International*, edited by G. W. Gribble and J. A. Joule, 465-529. London, United Kingdom: Elsevier, 2015.

Published • 10.1016/B978-0-08-100024-3.00015-5

- 24 Carla M. Oliveira; Silva, Artur; A. César Silva Ferreira. "Volatile Constitution of Volatile Compounds". In *Enological Chemistry*, edited by A. S. Curvelo-Garcia and Paulo Barros, 171-178. Portugal: Publindústria/Agrobook, 2015.

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- 25 Carla M. Oliveira; Silva, Artur; A. César Silva Ferreira. "Wines oxidation". In *Eno Chemistry – analytical methods*, 223-136. Porto, Portugal: Publindústria/Agrob
Published
- 26 Talhi, O.; Pinto, D.C.G.A.; Silva, A.M.S.. "The French paradox at tea time: From an flavonoids and stilbenes toward bio-inspired synthetic derivatives". In *Analysis Samples in Search of Bioactive Compounds*, edited by C. Jacob, G. Kirsch, A. Sluzar, A. Winyard and T. Burkholz, 149-189. Dordrecht, Netherlands: Springer, 2014.
Published • 10.1007/978-94-017-8953-0_6
- 27 Santos, C.M.M.; Silva, A.M.S.. "Six-membered ring systems: With O and/or S atom". In *Analysis of Marine Samples in Search of Bioactive Compounds*, edited by G. W. Gribble and J. A. Joule, 463-520. London, United Kingdom: Elsevier, 2014.
Published • 10.1016/B978-0-08-100017-5.00015-7
- 28 Santos, C.M.M.; Silva, A.M.S.. "Nuclear magnetic resonance spectroscopy for structural characterization of bioactive compounds". In *Analysis of Marine Samples in Search of Bioactive Compounds*, edited by Teresa Rocha-Santos and Armando C. Duarte, 1-10. Amsterdam, Netherlands: Elsevier, 2014.
Published • 10.1016/B978-0-444-63359-0.00007-0
- 29 Vera M. S. Isca; Ana M. L. Seca; Silva, Artur. "An Overview of Salicornia Genus: Taxonomy, Phytochemical and Pharmacological Profile". In *Natural Products: Research Review*, edited by V. K. Gupta, 145-176. New Delhi, India: Daya Publishing House, 2014.
Submitted
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Thesis /
Dissertation

- 1 Fernandes, Soraia Patrícia Silva. "Covalent organic frameworks to capture hazardous compounds from water". PhD, 2022. <http://hdl.handle.net/10773/34118>.
- 2 Vaz, Patrícia Alexandra Amaro Martins. "Synthesis and structure-properties relationship of small organic fluorophores". PhD, 2022. <http://hdl.handle.net/10773/3392>.
- 3 Tomé, Sara Mirassol. "Synthesis of flavonoid-type compounds and sugar-substituted phenolics of pharmacological importance". PhD, 2021. <http://hdl.handle.net/10773/31390>.
- 4 Catarino, Marcelo Dias. "Fucus vesiculosus phlorotannins: extraction, structural characterization and effects throughout the gastrointestinal tract". PhD, 2021. <http://hdl.handle.net/10773/31275>.
- 5 Correia, Catarina Marçal. "(E)-2-styrylchromones: synthesis and evaluation of their inhibitory effects on the oxidative burst produced by human monocytes". Master's, 2021. <http://hdl.handle.net/10773/33584>.
- 6 Francisco, Telmo Neves. "New synthetic methods for oxygen and nitrogen heterocycles". Master, 2021. <http://hdl.handle.net/10773/33483>.
- 7 Leal, Ana Catarina Lacerda. "Estimation of petroleum products properties based on combined NIR and high resolution ¹H NMR technologies". PhD, 2020. <http://hdl.handle.net/10773/28864>.
- 8 Varanda, Catarina Daniela Gonçalves Pinto. "Development of bitumens and anaerobic production process". PhD, 2016. <http://hdl.handle.net/10773/31572>.

Intellectual property

Patent

- 1 Silva, Artur. 2021. "Fluorescent Compounds, production methods and uses thereof". Portugal.
- 2 Silva, Artur; Samuel J. A. Guieu; João C. M. C. G. Rocha; Sandra I. M. O. Vieira; Odete Silva; Roberto A. S. Sias; Raquel F. Ruivo. 2018. "Fluorescent Compounds, production methods and uses thereof". Portugal.
- 3 Susana L. H. Rebelo; M. M. Q. Simões; Silva, Artur; José A. S. Cavaleiro; M. Margarida Silva. 2015. "Process for the production of indigo and derivatives". Portugal.
- 4 Silva, Artur; Vera L.M. Silva; Luis M. N. B. F. Santos; Ana M. G. Silva; Joana F. G. P. F. Enes; José A. S. Cavaleiro; et al. 2013. "Reactor para síntese química com aquecimento óhmico, métodos e suas aplicações". Portugal.

Other

- Other output
- 1 Valuable compounds on conifers, macroalgae and halophyte species. As part of going investigation on bioactive secondary metabolites, we carried out the phy study of the endemic conifer *Juniperus brevifolia* and the macroalga *Cystoseira* marine from Azores Islands, and also of the halophyte *Salicornia ramosissima* f lagoon. This communication gives an overview on the isolation, structural char and bioactivity of the most. 2013. Isca, Vera M. S.; Gouveia, Vera F.; Seca, Ana M Maria do Carmo; Pinto, Diana C. G. A.; Silva, Artur M. S.; Kijjoa, Anake.
<http://hdl.handle.net/10400.3/2350>.
 - 2 New glucosides from *Eucalyptus globulus* wood, bark and kraft pulps. 2004. Fri Silvestre, A.J.D.; Silva, A.M.S.; Neto, C.P.; Domingues, P..
<http://www.scopus.com/inward/record.url?eid=2-s2.0-10.1515/HF.2004.076>
 - 3 Easily degradable chlorinated compounds derived from glucuronoxylan in filtra: chlorine dioxide bleaching of *Eucalyptus globulus* kraft pulp. 2003. Freire, C.S.F A.J.D.; Neto, C.P.; Silva, A.M.S.; Evtuguin, D.V.; Cavaleiro, J.A.S..
<http://www.scopus.com/inward/record.url?eid=2-s2.0-0037286546&partnerID=MN8TOARS>.
10.1515/HF.2003.013

Activities

Supervision

	Thesis Title Role	Degree Subject (Type) Institution / Organization
2019 - 2023	Development of functional food targeting cardiometabolic risk Supervisor of Andreia Filipa Rodrigues Silva	Biotecnologia (PhD) Universidade de Aveiro, Portugal
2017 - 2021	Development of new anti-diabetic drugs based on the flavonoid scaffold: interdisciplinary network of in silico, in vitro, in vivo and organic synthesis studies Co-supervisor of Carina Isabel Coelho Proença	Ciências Farmacêuticas (PhD) Universidade do Porto Faculdade Farmácia, Portugal
2017 - 2021	Design, synthesis and evaluation of novel potential anti-leishmanial inhibitors Supervisor of Carlos Fábio Magalhães da Silva	Química (PhD) Universidade de Aveiro, Portugal
2017 - 2020	Estimation of petroleum product properties based on combined high resolution NIR and 1H NMR	Engenharia da Refinação, Petro Química (PhD) Universidade de Aveiro, Portugal

Supervisor of ANA CATARINA LACERDA
LEAL

2016 - 2020	Extraction, structural characterization and biological activity of phlorotannins from brown algae Co-supervisor of Marcelo Dias Catarino	Química Sustentável (PhD) Universidade de Aveiro, Portugal
2016 - 2020	Study of some nitrogen and sulfur heterocycles: Synthesis, functionalization and biological properties Co-supervisor of Lydia Saidi	Química (PhD) Université des Sciences et de la Technologie Houari Boumediene, Algeria
2015 - 2020	Synthesis and application of new boron-quinoxaline complexes as organic chromophores Supervisor of PATRÍCIA ALEXANDRA AMARO MARTINS VAZ	Química (PhD) Universidade de Aveiro, Portugal
2014 - 2020	Synthesis of phenolic glycosides from carbohydrates building blocks Supervisor of SARA MIRASSOL TOMÉ	Química (PhD) Universidade de Aveiro, Portugal
2018 - 2019	New molecules for diagnosis of Alzheimer's disease by Positron Emission Tomography (PET) Co-supervisor of Pedro Miguel Oliveira Gomes	Bioquímica (Master) Universidade de Aveiro, Portugal
2018 - 2019	Pastas enriched in Fucus vesiculosus: nutritional evaluation and biological properties Co-supervisor of Nuno Filipe Costa Afonso	Bioquímica (Master) Universidade de Aveiro, Portugal
2017 - 2018	Tetróxido de Ósmio num Sistema Supramolecular Dinâmico / Osmium Tetroxide in a Dynamic Supramolecular System Supervisor of JOÃO MIGUEL PIMENTA PEREIRA	Química (Master) Universidade de Aveiro, Portugal
2014 - 2018	Syntheses of oxygen and nitrogen-containing heterocycles of therapeutic interest by multicomponent reactions. Valorization of fluorophores by UV-visible and fluorescence Co-supervisor of Liza Saher	Química (PhD) University of Mouloud Mammeri, Algeria
2014 - 2018	Phytochemical, taxonomic and biological studies of two Algerian Plants Co-supervisor of Naima Rahmouni	Química (PhD) Université Constantine 1, Algeria

2016 - 2017	Synthesis of benzopyran adducts with potential cannabinoid activity Supervisor of EMANUEL JORGE FERREIRA BALSA	Química (Master) Universidade de Aveiro, Portugal
2016 - 2017	Análise do perfil nutricional de <i>Ulva rigida</i> cultivada sob diferentes condições em sistema de aquacultura integrada multi-trófica Supervisor of Ana Rita Sousa Circuncisão	Bioquímica (Master) Universidade de Aveiro, Portugal
2016 - 2017	Effect of drying process on edible seaweed physical-chemical properties Supervisor of Andreia Filipa Rodrigues da Silva	Bioquímica (Master) Universidade de Aveiro, Portugal
2016 - 2017	Effect of various abiotic stresses on the metabolites present on olive leaf (<i>Olea europaea</i> L.) Supervisor of Catarina Mendes Figueiredo	Bioquímica (Master) Universidade de Aveiro, Portugal
2013 - 2017	Cycloaddition reactions and conjugate additions of chromones bearing insaturated systems at C-2 Supervisor of Hélio Miguel Teixeira Albuquerque	Química (PhD) Universidade de Aveiro, Portugal
2015 - 2016	Nitro e Aminoflavonas como Agentes Antibacterianos / Nitro- and aminoflavones as antibacterial agents Co-supervisor of GONÇALO RIBEIRO ROBERTO GONZAGA	Bioquímica (Master) Universidade de Aveiro, Portugal
2015 - 2016	Sulfonação da Anilina por Aquecimento Ôhmico / Sulfonation of aniline using ohmic heating Supervisor of MICKAEL ROBERT RESENDE COELHO PEREIRA	Engenharia Química (Master) Universidade de Aveiro, Portugal
2014 - 2016	<i>Pterospartum tridentatum</i> : Estudo Fitoquímico e Avaliação das Atividades Biológicas dos seus Compostos Supervisor of MARK ANTHONY MONTEIRO SIMÕES	Bioquímica (Master) Universidade de Aveiro, Portugal
2013 - 2016	Estudos sobre a aplicação do aquecimento ohmico à síntese orgânica / Studies on the application of ohmic heating to organic synthesis Supervisor of Joana Filipa Gonçalves Pinto	Química (PhD) Universidade de Aveiro, Portugal

2013 - 2016	Síntese de compostos heterocíclicos de oxigénio funcionalizados. Avaliação da atividade antioxidante de derivados 3-hidroxilados / Synthesis of functionalised oxygen heterocyclic compounds. Evaluation of the antioxidant activity of 3-hydroxy derivatives	Química (PhD) Universidade de Aveiro, Portugal
	Supervisor of Joana Lia Cardoso de Sousa	
2013 - 2016	Bitumens Development and Analysis of Its Production Process	Engenharia da Refinação, Petroquímica (PhD)
	Co-supervisor of Catarina Daniela Gonçalves Pinto Varanda	Universidade de Aveiro, Portugal
2012 - 2016	Synthesis and biological activities of new biflorin-based nitrogen compounds	Química (PhD)
	Co-supervisor of Luciana Gregório da Silva Souza	Universidade Federal do Ceará,
2014 - 2015	Synthesis and study of multicomponent reactions using 3-formylchromone	Química Bioorgânica (Master)
	Supervisor	Universidade Nova de Lisboa, Portugal
2014 - 2015	Synthesis of novel tricyclic scaffolds by [2+2]-photocycloaddition	Química (Master)
	Supervisor of Ana Isabel Oliveira Almeida	Universidade de Aveiro, Portugal
2012 - 2015	Estudos de síntese e transformação de cromonas e 4-quinolonas / Studies on the synthesis and transformations of chromones and 4-quinolones	Química (PhD)
	Supervisor of Djenisa Helene Ascensão Rocha	Universidade de Aveiro, Portugal
2013 - 2014	Deconstruction of plant biomass by autohydrolysis	Química (Master)
	Co-supervisor of Rute das Neves Sarabando Carlos	Universidade de Aveiro, Portugal
2013 - 2014	New developments in the synthesis of new flavone derivatives	Química (Master)
	Supervisor of Orlando Delfim Carvalho Couto de Azevedo	Universidade de Aveiro, Portugal
2013 - 2014	Synthesis of C-glycosyl polyphenolic compounds	Química (Master)
	Supervisor of Ana Rita de Carvalho Acúrcio	Universidade de Aveiro, Portugal

2011 - 2014	Vias de degradação oxidativa de vinho / Pathways of oxidative degradation of wine	Química (PhD) Universidade de Aveiro, Portugal
	Supervisor of Carla Maria Dias Marques de Oliveira	
2010 - 2014	Transformações organocatalíticas e mediadas por metais de transição na síntese de novos heterociclos nitrogenados e ciclohexanos / Organocatalytic and metal catalysed transformations towards the synthesis of novel nitrogen heterocyclic compounds and cyclohexanes	Química (PhD) Universidade de Aveiro, Portugal
	Supervisor of Diana Isabel Soares Pereira Resende	
2010 - 2014	RMN na caracterização de correntes processuais de resíduos pesados / NMR in the characterization of heavy residual and procedural streams	Engenharia da Refinação, Petroquímica (PhD) Universidade de Aveiro, Portugal
	Supervisor of Sandra Lopes da Silva	
2010 - 2014	Development of new synthetic routes of pyrazoles and indazoles with potential cannabinoide activity	Química (PhD) Universidade de Aveiro, Portugal
	Supervisor of Joana Patrícia Araújo Ferreira	
2010 - 2014	Post-synthetic modification of metal organic frameworks	Química (PhD) Universidade de Aveiro, Portugal
	Supervisor of Reda Mohamed Abdelhameed Ahmed	
2010 - 2014	Microbe-mediated recovery salt marshes contaminated with oil hydrocarbons	Biologia (PhD) Universidade de Aveiro, Portugal
	Co-supervisor of Vanessa Jesus Oliveira	
2012 - 2013	Piridinas como Moduladores de GPCRs / Pyridines scaffolds as modulators of GPCRs	Química (Master) Universidade de Aveiro, Portugal
	Supervisor of CAROLINA DUARTE MAIA SEABRA AMADOR	
2012 - 2013	Síntese de Novos Derivados do Tipo Imidazole Ativos no SNC / Synthesis of novel imidazole-based CNS active compounds	Química (Master) Universidade de Aveiro, Portugal
	Supervisor of JOANA RITA CASTRO COSTA	
2009 - 2013	Synthesis of new A-ligands useful in diagnosis of Alzheimer's disease	Química (PhD) Universidade de Aveiro, Portugal

	Supervisor of Francisco Miguel Ribeiro Cardona	
2012 - 2012	Colocasia esculenta (L.) Shott: phenolic profile and bioactivity Supervisor	Química (Master) Universidade de Aveiro, Portugal
2010 - 2012	Flavonóides: biotransformação em derivados de valor acrescentado Co-supervisor of Guido Rocha Lopes	Biotecnologia (Master) Universidade de Aveiro, Portugal
2010 - 2012	Dyads porphyrin-flavonoid, MSc. in Chemistry Co-supervisor of Sónia Pereira Lopes	Química (Master) Universidade de Aveiro, Portugal
2010 - 2012	Synthesis of 1,2-Dihydropyridines Supervisor of Pedro António Martins Mira Varandas	Química (Master) Universidade de Aveiro, Portugal
2010 - 2012	Evaluation of protective effect of luteolin derivatives in a Huntington model Supervisor of Ana Margarida Alves de Oliveira	Bioquímica (Master) Universidade de Aveiro, Portugal
2009 - 2012	Síntese e actividade biológica de híbridos polifenólicos / Synthesis and biological activities of polyphenolic hybrids Supervisor of Oualid Talhi	Química (PhD) Universidade de Aveiro, Portugal
2008 - 2012	Development of new synthetic routes of novel 4-quinolones and acridones with potential biological applications Supervisor of Andreia Isabel Sousa Almeida	Química (PhD) Universidade de Aveiro, Portugal
2009 - 2011	Synthesis of Prenylated (E)-2-Styrylchromones Supervisor of Frederico Ribeiro Baptista	Química (Master) Universidade de Aveiro, Portugal
2006 - 2011	Synthesis and transformation of novel quinolone-type compounds with potential antitumour activity Supervisor of Raquel Sofia Grevy Ribeiro Seixas	Química (PhD) Universidade de Aveiro, Portugal
2008 - 2010	Synthesis and transformation of novel 4-quinolone derivatives Supervisor of Patrícia Alexandra Amaro Martins Vaz	Química (Master) Universidade de Aveiro, Portugal

2008 - 2010	(E)-C-Glycosyl-2-styrylchromones with potential antioxidant activity Supervisor of Sara Mirassol Tomé	Química (Master) Universidade de Aveiro, Portugal
2007 - 2009	Studies on the Heck reaction of 3-bromoflavones with styrenes Co-supervisor of Djenisa Helene Ascensão Rocha	Química (Master) Universidade de Aveiro, Portugal
2007 - 2009	New synthetic routes of 1-aryl-xanthenes Supervisor of Cristela Matos de Brito	Química Orgânica e Produtos Naturais (Master) Universidade de Aveiro, Portugal
2007 - 2009	Synthesis of flavones-nitrogen heterocyclic compounds through cycloaddition reactions Supervisor of Regina Maria da Silva Sousa	Química Orgânica e Produtos Naturais (Master) Universidade de Aveiro, Portugal
2006 - 2008	Studies on the addition of nucleophilic to $\alpha,\beta,\gamma,\delta$ -unsaturated compounds: Organocatalysis and asymmetric transformations Supervisor of Diana Isabel Soares Pereira Resende	Química Orgânica e Produtos Naturais (Master) Universidade de Aveiro, Portugal
2006 - 2008	Halogenation studies of 5-styryl-3-(2-hydroxyphenyl)-1H-pyrazoles Supervisor of Joana Patrícia Araújo Ferreira	Química Orgânica e Produtos Naturais (Master) Universidade de Aveiro, Portugal
2006 - 2008	Synthesis of new 1,5-benzodiazepine-type compounds Supervisor of Maria Margarida Feitor Pintão Moreno Antunes	Química Orgânica e Produtos Naturais (Master) Universidade de Aveiro, Portugal
2006 - 2008	Studies on the Heck reaction of cinnamylideneacetophenones with iodosylbenzene Supervisor	Química Orgânica e Produtos Naturais (Master) Universidade de Aveiro, Portugal
2004 - 2008	Transformations of chromone-3-carbaldehyde and of (E)-ortho-dihydroxy-2-styrylchromonolignans Supervisor of Andrea Gabriela Peres Rodrigues Figueiredo	Química (PhD) Universidade de Aveiro, Portugal
2004 - 2008	Organocatalysis and asymmetric catalysis: New applications of ferrocenylphosphines and nitromethane addition to conjugate substrates Supervisor of Susana Isabel Dinis	Química (PhD) Universidade de Aveiro, Portugal

Pereira

2004 - 2007	Synthesis of new pseudo-C-Nucleosides. Determination of their biological activity Supervisor of Jorge Miguel Alves Pinheiro	Química (PhD) Universidade da Beira Interior F de Ciências, Portugal
2002 - 2007	Transformations of α,β - and $\alpha,\beta,\gamma,\delta$ - unsaturated ketones. New synthetic routes of 2,3-diaryl-xanthenes Supervisor of Clementina Maria Moreira dos Santos	Química (PhD) Universidade de Aveiro, Portugal
2004 - 2006	Organic Chemistry in the Secondary School: Perceptions and proposals Supervisor of Sérgio Carreira Leal	Ensino da Física e da Química (M) Universidade de Aveiro, Portugal
2004 - 2006	Resistance of wines to oxidation Supervisor of Carla Maria Dias Marques Oliveira	Química Orgânica e Produtos N (Master) Universidade de Aveiro, Portugal
2004 - 2006	Novel polyhydroxy-2- and 3- styrylchromones with potential antioxidant activity Supervisor of Maria Margarida Cabrito de Freitas	Química Orgânica e Produtos N (Master) Universidade de Aveiro, Portugal
2004 - 2006	Conjugate addition of nitromethane to (E,E)- cinnamylideneacetophenones and (E)-2- styrylchromones Supervisor of Maria Adelaide Cotovio Salvador	Química Orgânica e Produtos N (Master) Universidade de Aveiro, Portugal
2002 - 2006	Synthesis and transformations of 3- styrylchromones and 3-(2- hydroxyphenyl)pyrazoles with potential analgesic activity Supervisor of Vera Lúcia Marques da Silva	Química (PhD) Universidade de Aveiro, Portugal
2002 - 2006	Mass spectrometry of cationic compounds and their non covalent adducts with oligonucleotides Co-supervisor of Raul-Alfonso Izquierdo- Cabezudo	Química (PhD) Universidade de Aveiro, Portugal
2000 - 2005	Síntese e Transformações de Diels-alder de 2-estirilcromonas / Synthesis and Diels- Alder transformations of 2-styrylchromones Supervisor of Diana Torrão Patoilo	Química (PhD) Universidade de Aveiro, Portugal

2000 - 2004	Synthesis and transformations of nitroflavonoids Supervisor of Ana Isabel Novo Amorim Barros	Química (PhD) Universidade de Trás-os-Monte: Douro Centro de Química Vila Real Portugal
2001 - 2003	Chemical Composition of Eucalyptus globulus fruits Supervisor of Susana Isabel Dinis Pereira	Métodos Biomoleculares (Master) Universidade de Aveiro, Portugal
2000 - 2002	Synthesis and transformation of 5-styryl-3-(2-hydroxyphenyl)pirazoles Supervisor of Vera Lúcia Marques da Silva	Química de Produtos Naturais e (Master) Universidade de Aveiro, Portugal
1997 - 2001	Novas Metodologias de Síntese de Xantonas / New routes for the synthesis of xanthonas Co-supervisor of Angela Sandulache	Química (PhD) Universidade de Aveiro, Portugal
1998 - 2000	Synthesis and Evaluation of the Antioxidant Activity of Polyhydroxy-2-styrylchromones Supervisor of Clementina Maria Moreira dos Santos	Química de Produtos Naturais e (Master) Universidade de Aveiro, Portugal
1998 - 2000	2-Styrylchromones: Synthesis and Transformation into 1,2,3-Triazoles Supervisor of Judite Santos Vieira	Química de Produtos Naturais e (Master) Universidade de Aveiro, Portugal
1997 - 1999	Synthesis of New 2-Styrylchromones with Potential Anti-tumour Activity Supervisor	Química de Produtos Naturais e (Master) Universidade de Aveiro, Portugal
1995 - 1997	Síntese e complexação de flavonas com iões de metais de transição Supervisor of Maria de Oliveira Martins de Carvalho	Ensino da Física e da Química (M) Universidade de Aveiro, Portugal
1995 - 1997	Estudo da composição química do extracto de acetona da Artemisia campestris L. Subsp. maritima Arcangeli Supervisor of João Mário de Jesus Ferreira de Vasconcelos	Ensino da Física e da Química (M) Universidade de Aveiro, Portugal
1992 - 1996	Synthesis, structural characterisation and transformations of pyrazoles Co-supervisor of Diana Cláudia Gouveia Alves Pinto	Química (PhD) Universidade de Aveiro, Portugal

Event participation

	Activity description Type of event	Event name Institution / Organization
2018/07/26 - Current	Oral Communication, Playing with 1,4- and 1,6-conjugate additions to synthesise compounds bearing 3 to 7 membered rings, 0012, pg 33 Conference	7th EuCheMS Chemistry Congre Liverpool-UK
2019/12/04 - 2019/12/08	keynote lecture, Chromones as building blocks for new oxygen and nitrogen heterocyclic compounds Conference	4th Iberoamerican Symposium o Chemistry - SIBEAQO 4, Cayo de Maria - Cuba
2019/07/28 - 2019/07/31	Plenary lecture, Valorisation of Portuguese and Algerian Natural Resources, PL13, pp. 19 Conference	Natural Products in Drug Discov Human Health" (NatProdDDH) Universidade de Lisboa Faculda Farmácia, Portugal
2019/06/17 - 2019/06/20	Oral communication, Biologically active oxygen and nitrogen heterocyclic compounds from cycloaddition and conjugate addition reactions on chromones, OC19, pp. 70	Bioheterocycles 2019 – XVIII Int Conference on Heterocycles in E Chemistry, Ghent-Belgium
2018/12/12 - 2018/12/14	Plenary lecture, Synthesis of potential biologically active heterocyclic compounds: from simple phenolics to asymmetric compounds under greener conditions, KL04 Conference	Chem2Nature Workshop – Mult Biomaterials; Porto, Portugal
2018/10/01 - 2018/10/03	Plenary lecture, Cycloaddition and conjugate addition reactions on chromones leading to other oxygen and nitrogen heterocyclic compounds Conference	2nd International Symposium o and Specialty Chemicals (ISCSC- Tlemcen, Argélia
2018 - 2018/06/06	Plenary Lecture, Exploring organocatalysis and carbohydrates as sources of chiral compounds Workshop	Workshop French-Portuguese o l'URCOM (Unité de Recherche e Organique et Macromoléculaire of Le Havre, Le Havre-France
2018/01/17 - 2018/01/19	Plenary lecture, Chromones: synthesis and transformations in other bioactive nitrogen and oxygen heterocyclic compounds, PL4, pg 49 Conference	12th National Organic Chemistr (12 ENQO) and 5th National Me Chemistry Meeting (5 ENQT), Cc
2017/11/21 - 2017/11/25	Invited lecture, Chromones bearing unsaturated substituents at C-2 and C-3 as building blocks in cycloaddition and	TRAMECH IX – Transmediterrai Colloquium on Heterocyclic Che Morocco

conjugate addition reactions, IL12, pp. 56

Conference

2017/11/06 - 2017/11/08	Plenary lecture, A flavour of synthetic organic chemistry towards biologically active compounds, PL03, pp. 17	International Symposium on Bi Macromolecular Systems Universidade de Aveiro, Portugal
	Conference	
2017/10/28 - 2017/10/28	Invited lecture, Chromones bearing 3-electron withdrawing substituents as building blocks of other oxygen and nitrogen heterocycles,	50th Anniversary of the Pharma Organic Chemistry – Faculty of I Universidade do Porto Faculdade Farmácia, Portugal
	Conference	
2017/09/03 - 2017/09/08	Oral Communication, Oxygen and nitrogen heterocycles from 3-electron withdrawing substituents chromones, Communication D 6, pp. 98	26th International Society of He Chemistry Congress, Regensburg
	Conference	
2016/11/23 - 2016/11/25	Opening Plenary Lecture, Development of new synthetic methods for oxygen and nitrogen heterocyclic compounds. New trends in green synthetic chemistry,	Vith Workshop North, Northeast Central West of Organic Synthes Scholl of Synthetic and Biologica – Prof. Peter Bakuzis Universidade de Brasília, Brazil
	Conference	
2016/10/24 - 2016/10/24	Plenary Lecture, Development of new synthetic methods for novel oxygen and nitrogen heterocyclic compounds	Symposium on Heteocyclic Cher Université de Sfax, Tunisia
	Symposium	
2016/10/06 - 2016/10/06	Plenary Lecture, Greener heating methods in the synthesis of potential biologically active heterocyclic compounds	Symposium on Heteocyclic Cher Nazarbayev University, Kazakhs
	Symposium	
2016/04/26 - 2016/04/29	Invited Lecture, Greener heating methods in the synthesis of biologically active heterocyclic compounds	5ht Portuguese Young Chemists (5th PYCheM) and 1st European Chemists Meeting (1st EYCheM)
	Conference	
2015/12/07 - 2015/12/10	Invited Keynote, Alternative heating methods in the synthesis of biologically active heterocyclic compounds	1st International Caparica Chris Congress on Translational Chem Caparica
	Conference	
2015/11/25 - 2015/11/25	Plenary Lecture, The chemistry of nitrogen and oxygen heterocycles between Aveiro and Debrecen. New recent results from Aveiro	Scientific Conference Organize t of Heterocyclic Chemistry of the Academy of Sciences in Honour Tamás Patonay,

Conference		
2015/11/16 - 2015/11/19	Opening Plenary Lecture, Development of New Synthetic Methods for Novel Oxygen and Nitrogen Heterocyclic Compounds	Egyptian Third International Co Chemistry: Chemistry and Susta Development”, Hurghada-Egypt
Conference		
2015/11/11 - 2015/11/15	Plenary Lecture, Chromones and quinolones: New synthetic methods and transformations	9th Transmediterranean Colloq Heterocyclic Chemistry
Conference		
2015/05/25 - 2015/05/28	Plenary Lecture, Development of new synthetic methods for novel oxygen and nitrogen heterocyclic compounds	38ª Reunião Anual da Sociedade de Química, Águas de Lindóia - I
Conference		
2015/05/25 - 2015/05/25	Plenary Lecture, Exploring organocatalysis and carbohydrates as sources of chiral compounds	2º Simpósio Luso-Brasileiro de Orgânica, Águas de Lindóia - Bra
Conference		
2014/11/27 - 2014/11/28	Plenary Lecture, Exploring organocatalysis and carbohydrates as sources of chiral compounds, pp. 2	Journée Très Grand Sud-Ouest d Chimique de France Université Paul Sabatier Toulou Département Chimie, France
Conference		
2014/11/14 - 2014/11/14	Plenary Lecture, Asymmetric synthesis: from organocatalysis to carbohydrate derivatives, pp. 20	Workshop on Advanced Technic Medicinal Chemistry – 5th São C Special Medicinal Chemistry Me SancaMedChem 2014 Universidade de São Paulo Câmp Carlos, Brazil
Conference		
2014/11/09 - 2014/11/12	Invited Lecture, New Synthetic Routes for Potential Biologically Active O- and N- Heterocycles, pp. 20	The 7th Brazilian Symposium on Chemistry – BrazMedChem-201 de Jordão - Brasil
Conference		
2014/09/07 - 2014/09/11	Invited Lecture, New Synthetic Routes of Nitrogen and Oxygen Heterocycles and Related Compounds, LE033	The International Symposium o Chemistry – EFMC, Lisboa
Conference		
2014/06/05 - 2014/06/06	Invited Lecture, Novel polyphenolic compounds as antioxidants and anti-inflammatory agents, p. 61	, 8th World Congress on Polyph Applications, Organised by the International Society of Antioxic Nutrition and Health, Lisboa
Conference		

Distinctions**Other distinction**

2020	Fellow correspondent of the Sciences Academy of Lisbon – Section of Chemistry
2017	Fellow of the European Academy of Sciences
2017	Fellow of the Chemistry Europe - European Chemical Societies Publishers
2012	The gold medal for cultural and scientific merit
2012	Invited Professor as Professeur et Directeur de Recherche de Chimie Organique et d Characterization Structural, July 2012 (1 month)
2005	Prémio de "Estímulo à Excelência" Fundação para a Ciência e a Tecnologia, Portugal
2005	Prémio Científico APDF 2005, por projecto de colaboração luso-francesa
2003	Invited Professor as Professeur et Directeur de Recherche de Chimie Organique et d Characterization Structural, July 2003 (1 month)