

Overview

1. Personal data

Full Name

Vera Lúcia Marques da Silva

Name under which you publish

Vera L. M. Silva (VLM Silva)

Fiscal ID number

214368688

ID document

10634205

Birth date

09-07-1975

National of

Portugal

Gender

F

Work address

University of Aveiro Chemistry Department Campus Universitário de Santiago
3810-193 Aveiro
Portugal

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4520-707 Santa Maria da Feira
Portugal

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234370704

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2. Academic degrees

Year: 2006

Degree: DOUTORAMENTO

Final grade: Approved by unanimity (Aprovada por unanimidade)

Degree granting institution Universidade de Aveiro

School/College/Campus Other

Thesis title Synthesis and transformation of 3-styrylchromones and 3-(2-hydroxyphenyl)pyrazoles with potential analgesic activity.

Supervisor: Professor Doutor Artur Manuel Soares da Silva

Co-supervisor: Doutora Nadine Jagerovic (científico titular do IQM-CSIC, Madrid)

Scientific area Química (Química Orgânica)

Program title PhD in Chemistry (4 Curricular years)

Year: 2002

Degree: MESTRADO

Final grade: Approved (Aprovada)

Degree granting institution Universidade de Aveiro

School/College/Campus Other

Thesis title Synthesis and transformation of 5-styryl-3-(2-hydroxyphenyl)pyrazoles

Supervisor: Professor Doutor Artur Manuel Soares da Silva

Co-supervisor: n/a

Scientific area Química (Mestrado em Química de Produtos Naturais e Alimentos)

Number of curricular years 2

Program title MSc in Chemistry of Natural Products and Food Stuffs

Year: 1998

Degree: LICENCIATURA

Final grade: 14 valores

Degree granting institution Universidade de Aveiro

School/College/Campus Other

Thesis title n/a

Supervisor: n/a

Co-supervisor: n/a

Scientific area Química - Ramo Química Analítica

Number of curricular years 5

Program title Chemistry - Analytical Chemistry

3. Previous activity and current status

Período	Cargo, categoria ou actividade	Instituição
01-1-2016 a	Post Doctoral Researcher	QOPNA, University of Aveiro and CIQUP- Faculty of Sciences, University of Porto
	Assistant Researcher	
01-2-2013 a 30-6-2015	Development of organic synthesis methodologies based on an ohmic heating reactor. Synthesis and structural characterization of polyphenolic and nitrogen heterocycles, towards new drugs to tackle existing neuropathologies. Post-Doc Researcher	Organic Chemistry, Natural Products and Food Stuffs (QOPNA) & Department of Chemistry, University of Aveiro.
02-10-2006 a 31-1-2013	Synthesis of quinolones and acridones. Synthesis of pyrazoles and indazoles with cannabinoid activity. Structural characterization of heterocyclic compounds. Sustainable synthetic methodologies based on an ohmic heating reactor. PhD in Chemistry	
01-4-2002 a 30-9-2006	Synthesis and transformations of 3-styrylchromones and pyrazoles. Microwave assisted synthesis of heterocyclic compounds. Cannabinoid-type compounds. Structural characterization by NMR , mass spectrometry and elemental analysis. PhD in Chemistry	Organic Chemistry, Natural Products and Food Stuffs (QOPNA) & Department of Chemistry, University of Aveiro.
01-5-2005 a 01-7-2005	Training for evaluation of the affinity of cannabinoid-type compounds for CB1 cannabinoid receptors through competitive radioligand binding assays and (35S)GTP-gama-S functional assays, using post-mortem human brain membranes.	Department of Pharmacology, Faculty of Medicine, University of Basque Country, Bilbao.
01-2-2000 a 28-2-2002	MSc in Chemistry of Natural Products and Food Stuffs Synthesis and reactivity studies of 5-styryl-3-(2-hydroxyphenyl) pyrazoles on Diels Alder reactions. Characterization of pyrazoles and derivatives by NMR, mass spectrometry and elemental analysis.	Organic Chemistry, Natural Products and Food Stuffs (QOPNA) & Department of Chemistry, University of Aveiro.
01-2-1999 a	Scholarship from University of Aveiro	

31-7-1999 Synthesis and characterization of flavonylacetic acids with potential antitumoral activity. This scholarship was renewed from Sep 1999 to Jan 2000. & Department of Chemistry, University of Aveiro.

4. Area of scientific activity

Organic chemistry, namely design, synthesis and transformation of flavonoid-type compounds (chromones, flavones and styrylchromones) and nitrogen heterocyclic compounds (pyrazoles, indazoles, triazoles, quinolones and acridones).

Ohmic heating and Green chemistry.

Microwave-assisted synthesis.

Structural characterization of flavonoid-type compounds and nitrogen heterocyclic compounds through NMR spectroscopy (one-dimensional and two-dimensional), mass spectrometry (EI, FAB, electrospray and MALDI-TOF) and elemental analysis.

Assessment of the biological activities of potencial cannabinoid type-compounds and antioxidants.

5. Present research interest

Domain of specialization

Organic Chemistry.
Heterocyclic Chemistry.
Green Chemistry.
Synthesis and Structural Characterization.

Current research interests

Development of new and sustainable organic synthesis methodologies based on ohmic heating technology.
Design and construction of ohmic heating reactors for a laboratory scale.
Green and sustainable chemistry with emphasis on reactions in water.
Organic synthesis and structural characterization (NMR, MS, Elemental analysis).

Other professional interests/activities

TEACHING EXPERIENCE

Laboratory classes of Chemistry and Physics Elements (first year of Sciences Courses) in the academic years of 2008/2009 and 2010/2011, at University of Aveiro.

Laboratory classes of Bioorganic Chemistry (first year of Sciences Courses) in the academic years of 2008/2009 and 2010/2011 at University of Aveiro.

PARTICIPATION IN EVALUATION COMMITTEE FOR PhD AND MSc. DEGREES

"Estudos de síntese e transformação de cromonas e 4-quinolonas", UA, 2015.

"Halogenation studies of 3-(2-hydroxyphenyl)-5-styryl-1H-pyrazoles", UA, 2008.

"Síntese de novos derivados de rodamina para aplicações em biologia e ambiente", FCUP, 2013.

"4-Quinolonas: novos métodos de síntese e transformação em acridonas" UA, 2014.

Evaluation panel member in the selection of applicants for research grants at QOPNA-UA.

PEER REVIEW REFEREE WORK

Monatsh. Chem, E-Journal of Chemistry, Arab. J. Chem., ACS Sustain Chem Eng.

6. Experience as scientific adviser

Only Completed supervisions and co-supervisions. The ongoing were not cited here:

PhD THESIS

Joana Filipa Gonçalves Pinto, "Estudos sobre a aplicação do aquecimento óhmico à síntese orgânica", University of Aveiro, 2016: Co-supervisor.

Joana Patrícia Araújo Ferreira "Synthesis and transformations of pyrazole and 1,2,3-triazole type compounds, University of Aveiro, 2014: Co-Supervisor.

MSc THESIS

Mickael Robert Resende Coelho Pereira, "Sulfonação da anilina por aquecimento óhmico", University of Aveiro in collaboration with CUF Company, 2016: Co-supervisor.

Inês Micaela Marques Ribau, Thesis title "(E)-2-[2-(2-Aminofenil)vinil]-1-metilquinolin-4(1H)-ona como precursor de novos compostos heterocíclicos", University of Aveiro, 2015: Supervisor.

Gustavo Adolfo Lopes Ferreira da Silva, Thesis title "4-Quinolones: new methods of synthesis and transformation into acridones", University of Aveiro, 2014: Supervisor.

Joana Patrícia Araújo Ferreira, "Halogenation studies of 3-(2-hydroxyphenyl)-5-styryl-1H-pyrazoles", University of Aveiro, 2008: Co-Supervisor.

RESEARCH FELLOWS

Since June 2010 to November 2013 : Supervisor of the research fellows with project grants: (Development of organic synthesis methodologies based on an ohmic heating reactor, FCT PTDC/QUI-QUI/102454/2008):

From 2010-2012: Joana Filipa Gonçalves Pinto

2011: José C. S. Costa

Jan 2012-Nov 2013: Inês Camoniana de Sousa Cardoso

Fev 2012-Nov 2013: Gustavo Adolfo Lopes Ferreira da Silva

FINAL PROJECTS OF UNGRADUATE STUDENTS

(3rd year of Chemistry and Biochemistry courses at UA)

2016: Ana Rita Futre Carreira, "Glycosylation of (E)-3(5)-(2-hydroxyphenyl)-4styrylpyrazoles: on the way to new anticancer agents", Supervisor.

2016: Sara Filipa da Rocha Oliveira, Screening de novos fármacos anti-inflamatórios e intercaladores do ADN, Universidade de Aveiro, Co-supervisor.

2015: Tânia Marisa da Costa Lima, "Evaluation of the antioxidant activity of new chromone derivatives", Supervisor.

2015: Sofia Reis Brandão, "Glycation of (E)-3(5)-(2-hydroxyphenyl)-5(3)-[2-(4-methoxyphenyl)vinyl]-1H-pyrazole for better bioavailability and activity", Supervisor.

2015: Sara Raquel Landeira Nabais Paulo, "Hydroxyphenylpyrazoles with sugars for better bioavailability and activity", Supervisor.

2015: Maria João Pericão da Veiga, "5(3)-[2-(4-Chlorophenyl)vinyl]-3(5)-(2-β-D-glycosylphenyl)-1H-pyrazole, a step towards a new class of glycopyrazoles", Supervisor.

2014: Nathalie Gaspar Ferreira, "Synthesis of pyrazole-1,2,3-triazole dyads with potential cannabinomimetic activity" Supervisor.

2014: Gonçalo Ribeiro Roberto Gonzaga, "Hydroxyphenylpyrazoles: cytotoxicity and affinity for DNA" Supervisor.

2014: Mariana Carreira Rodrigues "Hydroxyphenylpyrazoles: cytotoxicity and affinity for DNA", Supervisor.

2014: Nádia Alexandra Esteves Santos, "Hydroxyphenylpyrazoles: cytotoxicity and affinity for DNA" Supervisor.

2013: Inês Micaela Marques Ribau, "Synthesis of fused quinolone-benzazepines with potential antibacterial and antitumoral activity", Supervisor.

2009: Andreia Filipa Ferreira da Silva, "Synthesis of new 2-styryl-4-quinolones with potential antioxidant activity", Co-Supervisor.

2007: Ivo Martins, "Synthesis and reactivity studies of 3-styrylchromones under microwave irradiation" Co-Supervisor.

7. Participation in R&D projects

Participação em projectos de investigação (coordenador/membro de equipas)

ASSISTANT RESEARCHER of the project: "New Strategies Applied to Neuropathological Disorders" ((CENTRO-07-ST24-FEDER-002034), co-funded by QREN, "Mais Centro-Programa Operacional Regional do Centro" and EU, FEDER The project involves a multidisciplinary research team that combines experts in molecular neuropathologies, proteomics, metabolomics, bioinformatics, neuronal networks, organic synthesis and drug design. Feb 2013-Jan 2015.

PRINCIPAL INVESTIGATOR of the national project: "Development of Organic Synthesis Methodologies Based on an Ohmic Heating Reactor" (PTDC/QUI-QUI/102454/2008), Jun 2010 – May 2013.

TEAM MEMBER (PARTNER): European Project: "RedCat – Natural Products and related Redox Catalysts: Basic Research and Applications in Medicine and Agriculture" (ITN-215009), Dez 2008 - Nov 2012.

TEAM MEMBER (PARTNER): "Synthesis of chromones and in vitro evaluation of their antioxidant and anti-inflammatory properties" (POCI/QUI/59284/2004), Jan 2007 - Jan 2009.

TEAM MEMBER (PARTNER): "Synthesis, transformation and reactivity studies of novel 2- and 3-substituted 4-quinolones" (POCI/QUI/58835/2004), Sep 2005 - Aug 2008.

8. Prizes and awards received

Year	Name of the prize or award	Promoting entity
2015	Semi-finalist of "Elsevier Green and Sustainable Chemistry Challenge" (selected to the top 53 list of 495 proposals submitted).	Elsevier
2013	Best poster communication; "Diels-Alder reaction in aqueous salty solutions: concentration, waveform and frequency effects on the reaction and ohmic heating profile", Joana Pinto, Vera L.M. Silva, Ana M.G. Silva, Luis M.N.B.F. Santos and Artur M.S. Silva	XXIII National SPQ Meeting, University of Aveiro, Portugal
2011	Best Poster for Post-Doc Researcher in Sciences "Novel pyrazole-based cannabinoids: Synthesis and preliminary SAR analysis"	University of Aveiro

9. Published works

Teses

Vera L. M. Silva (2006) Synthesis and transformation of 3-styrylchromones and 3-(2-hydroxyphenyl)pyrazoles with potencial analgesic activity. University of Aveiro. PhD in Chemistry.

Vera L. M. Silva (2002) Synthesis and transformation of 5-styryl-3-(2-hydroxyphenyl)pyrazoles. University of Aveiro. MSc in Chemistry of Natural Products

Capítulos de livros

Raquel S. G. R. Seixas, Vera L. M. Silva, Artur M. S. Silva" Metal-Catalysed Cross-Coupling reactions in the synthesis and transformations of quinolones and acridones" In Synthesis and Modification of Heterocycles by Metal-Catalysed Cross-Coupling Reactions, *Top Heterocycl Chem* (2016) 45: 159–230.

Artigos em revistas de circulação internacional com arbitragem científica

* = Papers where I am also corresponding author

35 - Gustavo da Silva, Vera L. M. Silva*, Artur M. S. Silva, Lewis Acid Catalyzed Diels–Alder Reactions of (E)-1-Methyl-2-styrylquinolin-4(1H)-ones with ortho-Benzoquinodimethane: Synthesis of New 2-(3-Arylnaphthalen-2-yl)-1-methylquinolin-4(1H)-ones, Synthesis, accepted for publication, DOI: 10.1055/s-0035-1562534 (IF 2.652).

34 - Clementina M.M. Santos, Diana C. G. A. Pinto, Vera L. M. Silva, Artur M. S. Silva, Arylxanthenes and arylacridones: a synthetic overview, *Pure and Applied Chemistry*, 88 (6), 579-594. DOI: 10.1515/pac-2016-0407 (3.386)

33 - Joana Pinto, Vera L. M. Silva*, Luis M. N. B. F. Santos, Artur M. S. Silva,*, Synthesis of (E)-3-styrylquinolin-4(1H)-ones in water by ohmic heating: a comparison with other methodologies, *Eur. J. Org. Chem.*, 2016, accepted for publication (IF 3.065).

32- Raquel G. Soengas, Vera L. M. Silva, Daisuke Ide, Atsushi Kato, Susana M. Cardoso, Filipe A. Almeida Paz, Artur M. S. Silva, Synthesis of 3-(2-nitrovinyl)-4H-chromones: useful scaffolds for the construction of biologically relevant 3-(pyrazol-5-yl)chromones, *Tetrahedron*, 2016, 72, 3198-3203 (IF 2.641).

31- Luciana G.da S. Souza, Macia C. S. Almeida, Telma L. G. Lemos, Paulo R. V. Ribeiro, Edy S.de Brito, Vera L. M. Silva, Artur M. S. Silva, Raimundo Braz-Filho, José G. M. Costa, Fábio F. G. Rodrigues, Francisco S. Barreto, Manoel O. de Moraes, Synthesis, antibacterial and cytotoxic activities of new biflorin-based hydrazones and oximes, *Bioorg. Med. Chem. Lett.*, 2016, 26, 435-439 (IF 2.420).

30- Raquel G. Soengas, Vera L. M. Silva*, Joana Pinto, Humberto Rodríguez-Solla and Artur M. S. Silva, Ohmic Heating and Ionic Liquids in Combination for the Indium-Promoted Synthesis of 1-Halo Alkenyl Compounds: Applications to Pd-Catalysed Cross-Coupling Reactions, *Eur. J. Org. Chem.*, 2016, 99-107 (IF 3.065).

29-M. F. do C. Cardoso, A. T. P. C. Gomes, V. L. M. Silva*, A. M. S. Silva, M. G. P. M. S. Neves, F. de C. da Silva, V. F. Ferreira and J. A. S. Cavaleiro, Ohmic heating assisted synthesis of coumarinyl porphyrin derivatives, *RSC Adv.*, 2015, 5, 66192-66199 (IF 3.708).

28-Joana Pinto, Vera L.M. Silva*, Ana M. G. Silva, Artur M. S. Silva, Synthesis of (E)-2-styrylchromones and flavones by base-catalyzed cyclodehydration of the appropriate 8-diketones using water as solvent, *Molecules*, 2015, 20(6), 11418-11431(IF 2.095). Special issue:"Frontier in Green Chemistry Approaches".

27-Joana Pinto, Vera L. M. Silva*, Ana M. G. Silva, Luís M. N. B. F. Santos and Artur M. S. Silva, Ohmic heating assisted synthesis of 3-arylquinolin-4(1H)-ones by a reusable and ligand-free Suzuki-Miyaura reaction in water, *J. Org. Chem.*, 2015, 80(13):6649-6659 (IF 4.638).

26-Samuel Guieu, Joana Pinto, Vera L. M. Silva, João Rocha, Artur M. S. Silva, "Synthesis, post-modification and fluorescence properties of boron-diketonate complexes", *Eur. J. Org. Chem.*, 2015, 2015 (16), 3423-3426. (IF 3.154)

25-Inês C. S. Cardoso, Vera L. M. Silva*, Artur M. S. Silva, " Exploring the reactivity of (E)-3(5)-(2-hydroxyphenyl)-5(3)-styryl-1H-pyrazoles as dienes in the Diels-Alder reaction: New synthesis of 1H-indazoles", *Synlett* 2015, 26, 945-949. (IF 2.463)

24-Gustavo da Silva, Sónia M. G. Pires, Vera L. M. Silva*, Mário M. Q. Simões, M. Graça P. M. S. Neves, Susana L.H. Rebelo, Artur M. S. Silva, José A. S. Cavaleiro" A green and sustainable method for the oxidation of 1,3-dihydrobenzo[c] thiophenes to sulfones using metalloporphyrin complexes", *Catal. Commun.* 2014, 56, 68-71. (IF 2.915)

23-Vera L. M. Silva*, Artur M. S. Silva, "New synthetic methods for 2,3-diarylacridin-9(10H)-one and (E)-2-aryl-4-styrylfuro[3,2-c]quinoline derivatives", *Tetrahedron*, 2014, 70, 5310-5320 (IF 2.803).

22-Carlos F. R. A. C. Lima, Ana S. M. C. Rodrigues, Vera L. M. Silva, Artur M. S. Silva and Luís M. N. B. F. Santos, "Role of the Base and Control of selectivity in the Suzuki-Miyaura Cross-Coupling Reaction, *ChemCatChem* 2014, 6, 1291-1302. (IF 5.181).

21-J. Marques, Vera L. M. Silva, A. M. S. Silva, M. P. M. Marques, S. S. Braga, "Ru(II) trithiacyclononane 3-(2-hydroxyphenyl)-5-(4-methoxystyryl)pyrazole, a complex with facile synthesis and high cytotoxicity against PC-3 and MDA-MB-231 cells", *Complex Metals: An Open Access Journal*, 2014, 1:1, 7-12.

20-Joana P. A. Ferreira, Vera L. M. Silva*, José Elguero and Artur M. S. Silva, "(E)-3-Halo-2-styryl-4H-

chromen-4-ones: synthesis and transformation to novel pyrazoles", Tetrahedron, 2013, 60, 9701-9709. (IF 2.803)

19-Joana P. A. Ferreira, [Vera L. M. Silva](#)* José Elguero and Artur M. S. Silva, "Synthesis of new pyrazole-1,2,3-triazole dyads", Tetrahedron Lett. 2013, 54, 5391-5394. (IF 2.397)

18-Artur M. S. Silva, [Vera L. M. Silva](#), Rosa M. Claramunt, Dolores Santa María, Marta B. Ferraro, Felipe Reviriego, Ibon Alkorta and José Elguero, "The structures of two aldazines: [1,1'-(1E,1'E)-hydrazine-1,2-diylidenebis(methan-1-yl-1-ylidene)dinaphthalen-2-ol] (Lumogen) and 2,2'-(1E,1'E)-hydrazine-1,2-diylidenebis(methan-1-yl-1-ylidene)diphenol (salicylaldazine) in the solid state and in solution", Magn. Reson. Chem. 2013, 51, 530-540. (IF 1.528)

17-Joana Pinto, [Vera L. M. Silva](#)*, Ana M. G. Silva, Artur M. S. Silva, José C. S. Costa, Luís M. N. B. F. Santos, Roger Enes, José A. S. Cavaleiro, António A. M. O. S. Vicente and José A. C. Teixeira, "Ohmic heating as a new efficient process for organic synthesis in water", Green Chem., 2013, 15, 970-975 (IF 6.828).

16-Joana Pinto, [Vera L. M. Silva](#), Artur M. S. Silva, Rosa M. Claramunt, Dionisia Sanz, M. Carmen Torralba, M. Rosario Torres, Felipe Reviriego, Ibon Alkorta and José Elguero, "The structure of azines derived from C-formyl-1H-imidazoles in solution and in the solid state: tautomerism, configurational and conformational studies", Magn. Reson. Chem. 2013, 51, 203-221. (IF 1.528)

15-Andreia I. S. Almeida, [Vera L. M. Silva](#), Diana C. G. A. Pinto, Artur M. S. Silva, José A. S. Cavaleiro "Diels-Alder Reactions of (E)-2-Styrylquinolin-4(1H)-ones with N-Methylmaleimide: New Synthesis of Acridin-9(10H)-ones", Synlett, 2012, 23, 889-892. (IF 2.655)

14-[Vera L. M. Silva](#), Artur M. S. Silva, José A. S. Cavaleiro "New Synthesis of 2,3-Diarylacridin-9-(10H)-ones and (E)-2-Phenyl-4-styrylfuro[3,2-c]quinolines" Synlett, 2010, 17, 2565-2570. (IF 2.655)

13-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, Patricia Rodríguez, Maria Gómez, Nadine Jagerovic, Luis F. Callado, José A. S. Cavaleiro, José Elguero and Javier Fernández-Ruiz "Synthesis and pharmacological evaluation of new (E)- and (Z)-3-aryl-4-styryl-1H-pyrazoles as potential cannabinoid ligands" ARKIVOC, 2010, (x) 226-247. (IF 1.057)

12-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José Elguero and José A. S. Cavaleiro "Synthesis of new 1H-indazoles through Diels-Alder transformations of 4-styrylpyrazoles under microwave irradiation" Eur. J. Org. Chem., 2009, 4468-4479. (IF 3.344)

11-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro, José Elguero "Synthesis of (E)- and (Z)-3(5)-(2-hydroxyphenyl)-4-styrylpyrazoles" Monatsh. Chem., 2009, 140, 87-95. (IF 1.312)

10-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro, José Elguero, "Synthesis of (E)- and (Z)-3-styrylchromones" Monatsh. Chem., 2008, 139, 1307-1315. (IF 1.312)

9-Andreia I. S. Almeida, [Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro "Synthesis of Novel (E)-N-Methyl-2-styryl-4-quinolones" Synlett, 2008, 17, 2593-2596. (IF 2.655)

8-Tamás Patonay, Attila Kiss-Sziksai, [Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro and József Jek "Microwave-Induced Synthesis and Regio- and Stereoselective Epoxidation of 3-Styrylchromones" Eur. J. Org. Chem., 2008, 1937-1946. (IF 3.344)

7-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro and José Elguero, "Novel (E)- and (Z)-3(5)-(2-hydroxyphenyl)-4-styrylpyrazoles from (E)- and (Z)-3-styrylchromones: the unexpected case of (E)-3(5)-(2-hydroxyphenyl)-4-(4-nitrostyryl)pyrazoles" Tetrahedron Lett., 2007, 48, 3859-3862. (IF 2.620)

6-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, Nadine Jagerovic, Luis F. Callado, José A. S. Cavaleiro and José Elguero "Synthesis and Pharmacological Evaluation of Chlorinated N-Alkyl-3- and 5-(2-hydroxyphenyl)pyrazoles as CB1 Cannabinoid Ligands" Monatsh. Chem., 2007, 138, 797-811.

5-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro "Efficient Microwave – assisted Synthesis of Tetrahydroindazoles and Their Oxidation into Indazoles" Synlett, 2006, 1369-1373. (IF 2.655)

4-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro and Tamás Patonay "Condensation of Chromone-3-carboxaldehyde with Phenylacetic Acids: An Efficient Synthesis of (E)-3-Styrylchromones" Synlett, 2004, 15, 2717. (IF 2.655)

3-[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro and José Elguero "3(5)-(2-Hydroxyphenyl)-5(3)-Styrylpyrazoles: Synthesis and Diels-Alder Transformations", Eur. J. Org. Chem. 2004, 4348-4356. (IF 3.344)

2-Artur M. S. Silva, Ibon Alkorta, José Elguero, [Vera L. M. Silva](#) "A 13C NMR study of the structure of cinnamic acids and their methyl esters" J. Mol. Struct., 2001, 595, 1- 6.

1-Albert Lévai, Artur M. S. Silva, José. A. S. Cavaleiro, Tamás Patonay, [Vera L. M. Silva](#) "Dimethyldioxirane Oxidation of (E,E)-Cinnamylideneacetophenones" Eur. J. Org. Chem., 2001, 3213-3219. (IF 3.344)

Artigos em revistas nacionais com arbitragem científica

2- [Vera L. M. Silva](#), Ana M. G. Silva, Luis M. N. B. F. Santos, Artur M. S. Silva, "Avanços na síntese química: aquecimento ôhmico, Química 143, 2016, 15-21.

1-Ana M. G. Silva, [Vera L. M. Silva](#), Carla Queirós, Joana Pinto (2011), "Avanços na síntese química: síntese assistida por microondas", Química, 2012, 125, 61-68.

Publicações em actas de encontros científicos

1-Luciana G. da S. Souza, Macia C. S. Almeida, Telma L. G. Lemos, Artur M. S. Silva, [Vera L. M. Silva](#), , Paulo R. V. Ribeiro, José G. M. Costa and Raimundo Braz-Filho, Synthesis of Biflorin-Based Nitrogen Derivatives and Their Antibacterial Activity. Pharmaceuticals, 2016, 9, 15. doi:10.3390/ph9010015

Patentes

PATENT

VLM Silva, AMS Silva, LMNBF Santos, AMG Silva, J Pinto, R Enes, JAS Cavaleiro, AAMOS Vicente, JAC Teixeira, A Morais, JCS Costa, "Reator para síntese química com aquecimento ôhmico, método e suas aplicações". Portuguese Patent Nº 105908, 2011-09-27.

This patent resulted from the research project (PTDC/QUI-QUI/102454/2008) in which i was the Principal Investigator (Coordinator) and led to the construction of the first reactor with ohmic heating for chemical synthesis.

This reactor exists only in the Department of Chemistry, University of Aveiro (QOPNA).

Outras publicações

Articles in ChemInform Journal

Joana Pinto, [Vera L. M. Silva](#), Ana M. G. Silva, Artur M. S. Silva, José C. S. Costa, Luís M. N. B. F. Santos, Roger Enes, José A. S. Cavaleiro, António A. M. O. S. Vicente and José A. C. Teixeira, Ohmic Heating as a New Efficient Process for Organic Synthesis in Water, *ChemInform* 2013, 44(31), DOI: 10.1002/chin.201331208

Andreia I. S. Almeida, [Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, Jose A. S. Cavaleiro, Diels-Alder Reactions of (E)-2-Styrylquinolin-4(1H)-ones with N-Methylmaleimide: New Syntheses of Acridin-9(10H)-ones *ChemInform* 2012, 43 (30), DOI: 10.1002/chin.201230176

[Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, Jose A. S. Cavaleiro, Attila Vasas, Tamas Patonay, Syntheses of (E)- and (Z)-3-Styrylchromones, *ChemInform*, 2009, 40 (8), DOI: 10.1002/chin.200908157

Andreia I. S. Almeida, [Vera L. M. Silva](#), Artur M. S. Silva, Diana C. G. A. Pinto, Jose A. S. Cavaleiro, Syntheses of Novel (E)-N-Methyl-2-styryl-4-quinolones, *ChemInform* 2009, 40 (8), DOI: 10.1002/chin.200908171

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10. Communications in scientific meetings

Comunicações orais por convite

[Vera L. M. Silva](#), Ohmic Heating for Efficient Green Synthesis, Seminars in Physical Chemistry, Faculty of Sciences, University of Porto, 10th March, 2016.

[Vera L. M. Silva](#), Ohmic heating: An Emmerging Concept in Chemical Synthesis, Jornadas de Química da UA, University of Aveiro, 4th November, 2015.

[Vera L. M. Silva](#), Joana Pinto, Ana M. G. Silva, Artur M. S. Silva, José C. S. Costa, Luis M.N.B.F. Santos, Roger Enes, José A. S. Cavaleiro, António A.M.O.S. Vicente, José A. C. Teixeira, Ohmic Heating in Synthetic Organic Chemistry, 7th Spanish-Portuguese-Japanese Organic Chemistry Symposium, Seville, 23-26 June 2015, (IL 10).

[Vera L. M. Silva](#), À Conversa com...Vera L.M. Silva, Conversas Paralelas- Café com Ciência, atividade organizada pelo Núcleo de Estudantes de Química da Universidade de Aveiro (NEQUA), 20 de outubro de 2014, Fábrica de Ciência, Aveiro.

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[Vera L. M. Silva](#), "Ohmic heating in organic synthesis: state-of-the-art and some examples of its use in the synthesis of nitrogen heterocycles", XXII Encontro Luso-Galego de Química, Instituto Politécnico de Bragança, 9-11 de Novembro, 2016 (QV1).

[Vera L. M. Silva](#), "Ohmic heating: a new tool for organic synthesis", Research Day", University of Aveiro, Aveiro, 3rd June, 2014.

[Vera L. M. Silva](#), "Ohmic heating: a new tool for organic synthesis", 7th Transmediterranean Colloquium On Heterocyclic Chemistry", Rabat-Morocco, November 27-30, 2013.

[Vera L. M. Silva](#), "Towards novel nitrogen heterocyclic compounds: synthesis and biological evaluation", 4th Young Investigator's Workshop in Vienna, August 23-26, 2012.

[Vera L. M. Silva](#), Artur M. S. Silva and José A. S. Cavaleiro, "Synthesis of new 2,3-diarylacridin-9(10H)-ones and (E)-2-aryl-4-styrylfuro-[3,2-c]quinolines" XVII Encontro Galego-Português de Química, Pontevedra 9-11 November 2011, Oral Communication.

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Comunicações em painel ("poster")

1-Vera L. M. Silva, Inês M. M. Ribau, Artur M. S. Silva, Synthesis of fused quinolone-benzazepines, 10ºEncontro Nacional de Química Orgânica, 1º Simpósio Luso-Brasileiro de Química Orgânica, Faculty of Pharmacy, University of Lisbon, Portugal, September 4-6, 2013, Poster PC92.

2-Gustavo da Silva, Vera L. M. Silva, Artur M. S. Silva, Studies on the Lewis acid catalysed cycloaddition reactions of (E)-N-(2-acetylphenyl)-3-arylacrylamides with ortho-benzoquinodimethane, 10ºEncontro Nacional de Química Orgânica, 1º Simpósio Luso-Brasileiro de Química Orgânica, Faculty of Pharmacy, University of Lisbon, Portugal, September 4-6, 2013, Poster PC102.

3-Joana Pinto, Vera L. M. Silva, Ana M. G. Silva, Luís M. N. B. F. Santos, Artur M. S. Silva, Synthesis of 3-arylquinolin-4(1H)-ones by Suzuki cross-coupling reactions under PTC conditions using ohmic heating, 10ºEncontro Nacional de Química Orgânica, 1º Simpósio Luso-Brasileiro de Química Orgânica, Faculty of Pharmacy, University of Lisbon, Portugal, September 4-6, 2013, Poster PC105.

4-Inês C. S. Cardoso, Vera L. M. Silva, Artur M. S. Silva, Study on the microwave-assisted Diels-Alder reactions of 5-styryl-1H-pyrazoles with different dienophiles, 10ºEncontro Nacional de Química Orgânica, 1º Simpósio Luso-Brasileiro de Química Orgânica, Faculty of Pharmacy, University of Lisbon, Portugal, September 4-6, 2013, Poster PC41.

- 5-Joana Pinto, Vera L. M. Silva, Ana M. G. Silva, Artur M. S. Silva, José C. S. Costa, Luís M. N. B. F. Santos, Roger Enes, José A. S. Cavaleiro, António A. M. O. S. Vicente, José A. C. Teixeira, Ohmic heating as a new efficient process for organic synthesis in water, European Symposium on Organic Chemistry, ESOC 2013, Marseille, France, July 7-12, 2013.
- 6-Joana Pinto, Vera L. M. Silva, Ana M. G. Silva, Artur M. S. Silva, Luis M. N. B. F. Santos, José A. S. Cavaleiro, António A. M. O. S. Vicente, José A. C. Teixeira, "Ohmic Heating: Fundamentals and applications in organic synthesis in aqueous media", Research day, University of Aveiro, 19th June 2013, Poster 45.
- 7-Inês C. S. Cardoso, Vera L. M. Silva, Artur M. S. Silva, Synthesis of new 1H-indazoles through Diels-Alder transformations of 5-styrylpyrazoles, XXIII Encontro Nacional da SPQ, University of Aveiro, June 12-14, 2013, Poster P1.12.
- 8-Ana M. G. Silva, Daniel Silva, Maria Rangel, Inês C. S. Cardoso, Vera L. M. Silva, Artur M. S. Silva, Exploring on water synthesis of pyridyl analogues of rosamine fluorophores, XXIII Encontro Nacional da SPQ, University of Aveiro, June 12-14, 2013, Poster P1.58.
- 9-Gustavo da Silva, Vera L. M. Silva, Artur M. S. Silva, Lewis acid catalysed cycloaddition reactions of (E)-1-methyl-2-styrylquinolin-4(1H)-ones with ortho-benzoquinodimethane, XXIII Encontro Nacional da SPQ, University of Aveiro, June 12-14, 2013, Poster P1.60.
- 10-Vera L. M. Silva, Inês M. M. Ribau, Artur M. S. Silva, (E)-2-(2-Aminostyryl)-3-haloquinolin-4(1H)-ones: scaffolds for the synthesis of fused quinolone-benzazepines, XXIII Encontro Nacional da SPQ, University of Aveiro, June 12-14, 2013, Poster P1.63.
- 11-Joana Pinto, Vera L. M. Silva, Ana M. G. Silva, Luis M. N. B. F. Santos, Artur M. S. Silva, Diels-Alder reaction in aqueous salty solutions: concentration, waveform and frequency effects on the reaction and ohmic heating profile, XXIII Encontro Nacional da SPQ, University of Aveiro, June 12-14, 2013, Poster P3.10. (Prize for Best Poster Communication).
- 12-Carlos F. R. A. C. Lima, Ana S. M. C. Rodrigues, Vera L. M. Silva, Artur M. S. Silva, Luis M. N. B. F. Santos, Role of the base and control of selectivity in the Suzuki-Miyaura cross coupling reaction, XXIII Encontro Nacional da SPQ, University of Aveiro, June 12-14, 2013, Poster P4.5.
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- 14-Inês C. S. Cardoso, Vera L. M. Silva, Artur M. S. Silva, Microwave-assisted transformation of 5-styrylpyrazoles into tetrahydroindazoles and oxidation to new 1H-indazoles, 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal Chemistry, University of Aveiro, November 28-30, 2012, Poster 58.
- 15-Joana P. A. Ferreira, Vera L. M. Silva, Artur M. S. Silva, José A. S. Cavaleiro, Synthesis of 5-aryl-3-? 2-(2-hydroxyphenyl)-2-oxoethyl?-1H-pyrazoles, 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal Chemistry, University of Aveiro, November 28-30, 2012, Poster 63.
- 16-Joana Pinto, Vera L. M. Silva, Ana M. G. Silva, Artur M. S. Silva, José A. S. Cavaleiro, Green protocol for the cyclodehydration of diketones into (E)-2-styrylchromones and flavones, 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal Chemistry, University of Aveiro, November 28-30, 2012, Poster 67.
- 17-Vera L. M. Silva, Artur M. S. Silva, José A. S. Cavaleiro, New 2-?(1E,3E)-4-arylbuta-1,3-dienyl?quinolin-4(1H)-ones: scaffolds for the synthesis of 1-arylacridin-9(10H)-ones, 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal Chemistry, University of Aveiro, November 28-30, 2012, Poster 129.
- 18-Joana Pinto, Vera L. M. Silva, Artur M. S. Silva, Rosa M. Claramunt, Dionisia Sanz, M. Carmen Torralba, M. Rosario Torres, Felipe Reviriego, Ibon Alkorta, José Elguero, Azines derived from C-formyl-1H-imidazoles: synthesis and structural studies in solution and solid state NMR, RedCat Meeting, University of Aveiro, November 25-27, 2012, Poster P16.
- 19-Vera L. M. Silva, Artur M. S. Silva, José A. S. Cavaleiro, Synthetic strategies towards novel acridin-9(10H)-ones and (E)-2-aryl-4-styrylfuro(3,2-c)quinolines, RedCat Meeting, University of Aveiro, November 25-27, 2012, Poster P18.
- 20-Vera L. M. Silva, Artur M. S. Silva, José A. S. Cavaleiro, Synthesis and structural elucidation of novel 2-[(1E,3E)-4-arylbuta-1,3-dienyl]quinolin-4(1H)-ones, 4th EuCheMS Chemistry Congress, Prague Congress Centre, Czech Republic, August 26-30, 2012 (Poster 12EU-0756).
- 21-Joana Pinto, Vera L. M. Silva, Ana M. G. Silva, Artur M. S. Silva, José A. S. Cavaleiro, Luís Belchior, A. A. Vicente, J. A. Teixeira, Ohmic Heating: a New and Highly Efficient Process for Organic Synthesis in Water, 4th EuCheMS Chemistry Congress, Prague Congress Centre, Czech Republic, August 26-30, 2012.
- 22-Joana P.A. Ferreira, Vera L.M. Silva, Artur M.S. Silva and José A.S. Cavaleiro, Studies in the iodination of 3(5)-(2-hydroxyphenyl)-5(3)-styryl-1H-pyrazoles, 4th EuCheMS Chemistry Congress, Prague Congress Centre, Czech Republic, August 26-30, 2012.
- 23-Joana P. A. Ferreira, Vera L. M. Silva, Artur M. S. Silva, José A. S. Cavaleiro, Recent advances in the chemistry of pyrazoles: towards new biologically active compounds, Research day, University of Aveiro, 13 June, 2012, Poster (P80).
- 24-Inês C. S. Cardoso, Vera L. M. Silva, Artur M. S. Silva, José A. S. Cavaleiro, 3(5)-(2-Hydroxyphenyl)-5(3)-styryl-1H-pyrazoles: synthesis and reactivity studies on Diels-Alder transformations, 3 PYChEM, University of Porto, 9-11 May, 2012, Poster (P58).
- 25-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto, Nadine Jagerovic, Luis F. Callado, José A. S. Cavaleiro and José Elguero, Novel pyrazole-based cannabinoids: synthesis and preliminary SAR analysis, Research day, University of Aveiro, 8 June, 2011, Poster.
- 26-Joana P. A. Ferreira, Vera L. M. Silva, Artur M. S. Silva and José A. S. Cavaleiro, Synthesis and transformations of (E)-3-bromo-2-styrylchromones in 3(5)-aryl-5(3)-[2-(2-hydroxyphenyl)-2-oxoethyl]-1Hpyrazoles, XVI Encontro Luso-Galego de Química, Aveiro 10-12 November, 2010, Poster (CP-40).
- 27-Vera L. M. Silva, Artur M. S. Silva, José A. S. Cavaleiro, Recent Advances in the synthesis of new acridone derivatives, 16th European Symposium on Organic Chemistry, Prague / Czech Republic, 12 -16 July, 2009, Poster (P2.023).
- 28-Andreia I. S. Almeida, Raquel S. G. R. Seixas, Vera L. M. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro, Artur M. S. Silva, New synthetic routes of novel quinolone and acridone derivatives, 16th European Symposium

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32-Silva, V. L. M., Silva, A. M. S., Pinto; D. C. G. A.; Jagerovic, N.; Callado, L. F.; Elguero, J.; Cavaleiro, J. A. S.; Synthesis and Pharmacological Evaluation of 1-Alkyl-3-(2-hydroxyphenyl)-4-styrylpyrazoles as Potential CB1 Cannabinoid Ligands, 4th Spanish~Portuguese~Japanese Organic Chemistry Symposium (4SPJOCS), University of Santiago de Compostela, 8-11 September, 2006, Poster (PO-93).

33-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro, Synthesis of Novel (E)-3-(2-hydroxyphenyl)-4-(nitrostyryl)pyrazoles, 4th Transmediterranean Colloquium on Heterocyclic Chemistry, University of Aveiro, 23 - 27 July, 2006, Poster (PP59).

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35-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto, Nadine Jagerovic, Luis F. Callado, José A. S. Cavaleiro and José Elguero, Synthesis of New Potential Cannabinoids, 11th Blue Danube Symposium on Heterocyclic Chemistry, Brno/ Czech Republic, 28 August -1 September, 2005, Poster (PO-92).

36-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro and Tamás Patonay, Synthesis of 3-Styrylchromones: Microwave versus Classical Synthesis, 21th European Colloquium on Heterocyclic Chemistry (EHC), Sopron/ Hungary, 12-15 September, 2004, Poster (TP-55).

37-Attila Kiss-Szikszai, Tamás Patonay, Vera L. M. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro, Artur M. S. Silva, Chemo- and Stereoselective Epoxidation of 3-Styrylchromones, 21th European Colloquium on Heterocyclic Chemistry (EHC), Sopron/ Hungary, 12-15 September, 2004, Poster (MP-64).

38-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro, Síntese de novos derivados de (E)-e (Z)-4-estiril-3-(2-hidroxifenil)pirazóis, XIX Encontro Nacional da Sociedade Portuguesa de Química, Coimbra, 15-17 April, 2004, Poster.

39-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro, Synthesis of 3-Styrylchromones, 5º Encontro Nacional de Química Orgânica, 1º Simpósio Luso-Japonês, Aveiro 1-4 July, 2003, Poster (PO 102).

40-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro, Síntese de novos 5(3)-estiril ou naftil-1-fenil-3(5)-(2-hidroxifenil)pirazóis, XVIII Encontro Nacional da Sociedade Portuguesa de Química, Aveiro 25-27 March, 2002, Poster (P189).

41-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro, 3(5)-(2-hydroxyphenyl)- 5 (3)-styryl-N-phenylpyrazoles: synthesis and Diels-Alder transformations, 4º. Encontro Nacional de Química Orgânica, Coimbra, 26-28 September, 2001, Poster (CP 75).

42-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto, Augusto C. Tomé and José A. S. Cavaleiro, New 2-phenylchromone derivatives, XIXth European Colloquium on Heterocyclic Chemistry, Aveiro, 19-22 July, 2000, Poster (P A-111).

43-Vera L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro, 3-(2-Hydroxyphenyl)-5-styrylpyrazoles: Synthesis and Reactivity in Diels-Alder Reactions, XVII Encontro Nacional da Sociedade Portuguesa de Química, Lisbon, 1-3 March, 2000, Poster (P 181).

44-Artur M. S. Silva, Lúcia M. P. M. Almeida, Vera L. M. Silva, José A. S. Cavaleiro, Adamo G. Caetano, A. Fernando J. Regateiro, Frederico Teixeira, Synthesis and Evaluation of the Genotoxic Activity of Flavone Acetic Acids, 3º. Encontro Nacional de Química Orgânica, University of Beira Interior, Covilhã, 23-26 June, 1999, Poster (P 23).

45-Artur M. S. Silva, Vera L. M. Silva, Diana C. G. A. Pinto and José A. S. Cavaleiro, Synthesis of New 3-(2-Hydroxyphenyl)-5-styrylpyrazoles, 3º. Encontro Nacional de Química Orgânica, University of Beira Interior, Covilhã, 23-26 June, 1999, Poster (P 11).

46-Artur M. S. Silva, Angela Sandulache, Vera L. M. Silva and José A. S. Cavaleiro, Chromones: Synthesis and Transformation Into Other Heterocyclic Compounds, XVI Encontro Nacional da Sociedade Portuguesa de Química, University of Minho, Guimarães, 22 - 25 September, 1998, Poster (P20).

11. Languages

Language	Reading	Writing	Conversation
French	Good	Good	Good
English	Good	Good	Good