



**CURRICULUM VITAE
OF**

ARTUR MANUEL SOARES DA SILVA

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Artur Manuel Soares da Silva, was born at 27/6/63, Alpendurada e Matos, Marco de Canaveses, Porto, Portugal.

1 - STUDIES AND ACADEMIC CAREER:

- Full Professor, Department of Chemistry, University of Aveiro, 2001-....
- Head of the Chemistry Department, University of Aveiro, 2001-2006.
- President of the Organic Chemistry Division of the Portuguese Chemical Society (2001-2003; 2007-2009).
- Vice-President of the Organic Chemistry Division of the Portuguese Chemical Society (1999-2001; 2005-2007).
- Vice-Presidente of the Portuguese Chemical Society (2013...)
- Portuguese representative in the Organic Chemistry Division of the EuChemMS (2007-...).
- Board of the Medicinal Chemistry Group of the Portuguese Chemical Society (2006-....).

- Responsible for the Pos-graduated studies of the Chemistry Department since 2007.
- Director of the Doctoral Programme in Chemistry, since 2007.
- Director of the Master Course in Chemistry, since 2009.
- Director of the Master Course in Organic Chemistry and Natural Products, 2006-2010.

- Associate Professor, Department of Chemistry, University of Aveiro, 1996-2000
- Professor Auxiliar, Department of Chemistry, University of Aveiro, 1993-1996
- "Assistente", Department of Chemistry, University of Aveiro, 1990-1993.
- "Assistente Estagiário", Department of Chemistry, University of Aveiro, 1987-1990.
- Undergraduate Student, "Licenciatura" in Chemistry and Physics, University of Aveiro, 1982-1987.

2 - TEACHING:

- Practical (lab.) courses of Organic and Bioorganic Chemistry.
- Lecturing courses on Organic, Bioorganic Chemistry and supervising final year student project and seminars.
- Lecturing courses on Natural Products Chemistry and NMR for MSc. And PhD Students

3. SCIENTIFIC INTEREST

- Synthetic Organic Chemistry; Heterocyclic Chemistry
- Organocatalysis
- Synthesis of new oxygen and nitrogen heterocyclic compounds
- Synthesis of new compounds with biocidal and antioxidant activities
- Spectroscopy in Organic Chemistry, especially NMR
- Chemical composition of plants and isolation of natural flavonoids.

It is referee of more than thirty two international journals.

Belong to the **Editorial Board of the *E-Journal of Chemistry, Mediterranean Journal of Chemistry and Green and Sustainable Chemistry* and also to the scientific committee of the *Transmediterranean Colloquium on Heterocyclic Chemistry*.**

Participated in more than 80 PhD jury (in Portugal, France, Spain, Argelia).

4.1. COMMUNICATIONS AND PUBLICATIONS:

30 Plenary lectures & Oral Communications and more than 600 Poster Communications.

4.2. PUBLICATIONS:

4.2.1. Proceedings: 6

4.2.2. Book Chapters:

1. "NMR Studies on the Antiradical Mechanism of Phenolic Compounds Towards 2,2-Diphenyl-1-picrylhydrazyl Radical", Artur M. S. Silva, Clementina M. M. Santos, José A. S. Cavaleiro, Hilário R. Tavares, Fernanda Borges, Francisco A. M. Silva, *Magnetic Resonance in Food Science – A View to the Next Century*, Ed. G. A. Webb, P. S. Belton, A. M. Gil, I. Delgadillo, Royal Society Chemistry, Cambridge, **2001**, pp. 110-116.
2. "Reactivity of 2-Substituted Chromones" - *Review*, Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro, *Targets in Heterocyclic Systems – Chemistry and Properties*, Vol. 4, Ed. O. A. Attanasi, D. Spinelli, Italian Society of Chemistry, **2001**, pp. 231-267.
3. "Chemical Composition of *Artemisia campestris* and *Hibiscus cannabinus*", Artur M. S. Silva, Ana M. L. Seca, João M. J. Vasconcelos, José A. S. Cavaleiro, Armando J. D. Silvestre, Fernando M. J. Domingues, Carlos Pascoal-Neto, *Natural Products in the New Millenium: Prospects and Industrial Application*, Ed. A. P. Rauter, F. B. Palma, J. Justino, M. E. Araújo, Susana P. Santos, Kluwer Academic Publishers, Dordrecht-Holanda, **2002**, pp. 47-57.
4. "Chemical Transformation of Natural Compounds", José A. S. Cavaleiro, Armando J. D. Silvestre, Maria G. P. M. S. Neves, Artur M. S. Silva, Rosália R. L. Martins, Sílvia M. C. S. Monteiro, Mário M. Q. Simões, *Natural Products in the New Millenium: Prospects and Industrial Application*, Ed. A. P. Rauter, F. B. Palma, J. Justino, M. E. Araújo, Susana P. Santos, Kluwer Academic Publishers, Dordrecht-Holanda, **2002**, pp. 389-399.
5. "Pyrazoles as Drugs: Facts and Fantasies" - *Review*, José Elguero, Pilar Goya, Nadine Jagerovic, Artur M. S. Silva, *Targets in Heterocyclic Systems – Chemistry and Properties*, Vol. 6, Ed. O. A. Attanasi e D. Spinelli, Italian Society of Chemistry, **2002**, pp. 52-98.
6. "Diterpenes of the Family Euphorbiaceae", Ana M. V. D. Ferreira, Maria Josão M. Carvalho, Artur M. S. Silva, Luís H. M. Carvalho, *Recente Progress in Medicinal Plants*, Vol 9 – *Plant Bioactives in Tradicional Medicine*, Ed. D. K. Majumdar, J. N. Govil, V. K. Singh, R. Kr. Sharma, Studium Press LLC, Texas, **2005**, pp. 15-118.
7. "Ressonância Magnética Nuclear", Artur Silva, Mariette Pereira, Química – Síntese e Estrutura Uma abordagem prática, Capítulo 4.5, Escolar Editora, Lisboa, **2006**, pp. 169-215.
8. "The Chemical Composition of the Juniperus Genus (1970-2004)", Ana M. L. Seca, Artur M. S. Silva, *Recent Progress in Medicinal Plants*, Vol 16 – *Phytomedicines*, Ed. J. N. Govil, V. K. Singh, R. Bhardwaj, Studium Press LLC, Texas, **2006**, Capítulo 20, pp. 401-522.
9. "Advance NMR techniques for structural characterisation of heterocyclic structures", Diana C. G. A. Pinto, Clementina M. M. Santos, Artur M. S. Silva, *Recent Research Developments in Heterocyclic Chemistry*, Ed. Teresa M. V. D. Pinho e Melo, António M. d'A Rocha Gonsalves, Research Signpost, Kerala – India, **2007**, Capítulo 8, pp. 397-475.
10. "Eight-membered Rings with One Oxygen Atom", Artur M. S. Silva, Augusto C. Tomé, *Comprehensive Heterocyclic III – A Review of The Literature 1995-2007*, Vol. 14 – *Eight-membered and larger Heterocyclic Rings and Their Fused Derivatives, other Seven-membered rings*, Ed. A. R. Katritzky, C. A. Ramsden, E. F. V. Scriven, R. J. K. Taylor, Elsevier, Oxford, **2008**, Capítulo 14.02, pp. 49-88.
11. "Chemical Composition and Lignin Structural Features of Banana Plant Leaf Sheath and Rachis", Lúcia Oliveira, Dmitry V. Evtuguin, Nereida Cordeiro, Armando J. D. Silvestre, Artur M. S. Silva, *Characterization of Lignocellulosic Materials*, Ed. Thomas Q. Hu, Blackwell Publishing, **2008**, Capítulo 10, pp. 171-188.
12. "1,3-Dihydrobenzo[c]thiophene 2,2-Dioxide", Artur M. S. Silva, Augusto C. Tomé, *Encyclopedia of Reagents for Organic Synthesis*, 2008 John Wiley & Sons, 2009, DOI: 10.1002/047084289X.rd225.pub2.
13. "Five-Membered Heterocycles: 1,2-Azoles. Part 1. Pyrazoles", José Elguero, Artur M. S. Silva, Augusto C. Tomé, *Modern Heterocyclic Chemistry*", Ed. J. Alvarez-Builla, J. J. Vaquero, J. Barluenga, Wiley-VCH, Weinheim-Alemanha, **2011**, Capítulo 8, pp. 635-725.
14. "Five-Membered Heterocycles: 1,2-Azoles. Part 2. Isoxazoles and Isothiazoles", Artur M. S. Silva, Augusto C. Tomé, Teresa M. V. D. Pinho e Melo, José Elguero, *Modern Heterocyclic Chemistry*", Ed. J. Alvarez-Builla, J. J. Vaquero, J. Barluenga, Wiley-VCH, Weinheim-Alemanha, **2011**, Capítulo 9, pp. 727-808.
15. "Six-Membered Ring Systems: With O and/or S Atoms", Clementina M. S. Santos, Artur M. S. Silva, *Progress in Heterocyclic Chemistry*, Ed. G. W. Gribble and J. A. Joule, Elsevier, London, **2012**, Vol. 24, Chapter 6.4, pp. 443-492.
16. "Six-Membered Ring Systems: With O and/or S Atoms", Clementina M. S. Santos, Artur M. S. Silva, *Progress in Heterocyclic Chemistry*, Ed. G. W. Gribble and J. A. Joule, Elsevier, London, **2013**, Vol. 25, Chapter 5.4, pp. 409-453.
17. "An Overview of *Salicornia* Genus: The Phytochemical and Pharmacological Profile", Vera M. S. Isca, Ana M. L. Seca, Diana C. G. A. Pinto, Artur M. S. Silva, *Natural Products: Research Reviews*, Ed. V. K. Gupta, Daya Publishing House, New Delhi, 2014, Vol. 2, 145-176.

4.2.3. Papers in SCI journals:

Until 2012 – 324

325. "Identification of phenolic constituents of *Cytisus multiflorus*", Olívia R. Pereira, Artur M. S. Silva, Maria R. M. Domingues, Susana M. Cardoso, *Food Chem.*, **2012**, *131*, 652-659.
326. "Flavone-Nitrogen Heterocyclic Conjugate Formation by 1,3-Dipolar Cycloadditions", Regina M. S. Sousa, Diana C. G. A. Pinto, Artur M. S. Silva, Vanda V. Serra, Ana I. R. N. A. Barros, Maria A. F. Faustino, Maria G. P. M. S. Neves, José A. S. Cavaleiro, *Eur. J. Org. Chem.*, **2012**, 132-143.
327. "Solid-phase synthesis of 2'-hydroxychalcones. Effects on cell growth inhibition, cell cycle and apoptosis of human tumor cell lines", Marta P. Neves, Sara Cravo, Raquel T. Lima, M. Helena Vasconcelos, M. São José Nascimento, Artur M. S. Silva, Madalena Pinto, Honorina Cidade, Arlene G. Correia, *Bioorg. Med. Chem.*, **2012**, *20*, 25-33.
328. "A new bicyclic sesquiterpene from the marine sponge associated fungus *Emericellopsis minima*", Ângelo Pinheiro, Tida Dethoup, Júlia Bessa, Artur M. S. Silva, Anake Kijjoo, *Phytochemistry Lett.*, **2012**, *5*, 68-70.
329. "The dependence of α -tocopheroxyl radical reduction by hydroxy-2,3-diaryl-xanthenes on structure and microenvironment", Patrice Morlière, Larry K. Patterson, Clementina M. M. Santos, Artur M. S. Silva, Jean-Claude Mazière, Paulo Filipe, Ana Gomes, Eduarda Fernandes, M. Beatriz Q. Garcia, René Santos, *Org. Biomol. Chem.*, **2012**, *10*, 2068-2076.
330. "A New Synthesis of 5-Arylbenzo[c]xanthenes from Photoinduced Electrocyclisation and Oxidation of (E)-3-Styrylflavones", Djenisa H. A. Rocha, Diana C. G. A. Pinto, Artur M. S. Silva, Tamás Patonay, José A. S. Cavaleiro, *Synlett*, **2012**, *23*, 559-564.
331. "Chromenopyrazoles: Non-psychoactive and Selective CB₁ Cannabinoid Agonists with Peripheral Antinociceptive Properties", Jose Cumella, Laura Hernández-Folgado, Rocio Girón, Eva Sánchez, Paula Morales, Dow P. Hurst, Maria Gómez-Cañas, Maria Gómez-Ruiz, Diana C. G. A. Pinto, Pilar Goya, Patricia H. Reggio, María Isabel Martín, Javier Fernández-Ruiz, Artur M. S. Silva, Nadine Jagerovic, *ChemMedChem*, **2012**, *7*, 452-463.
332. "Sartorymnsin, a new indole alkaloid, and new analogues of tryptoquivaline and fiscalins produced by *Neosartorya siamensis* (KUFC 6349), Suradet Buttachon, Angsumarn Chandrapatya, Leka Manoch, Artur Silva, Luís Gales, Céline Bruyère, Robert Kiss, Anake Kijjoo, *Tetrahedron*, **2012**, *68*, 3253-3262.
333. "Iridium-Catalyzed Henry-Type Reaction of Aldehydes with Bromonitroalkanes", Raquel G. Soengas, Artur M. S. Silva, *Synlett*, **2012**, *23*, 873-876.
334. "Diels-Alder Reactions of (E)-2-Styrylquinolin-4(1H)-ones with N-Methylmaleimide: New Synthesis of Acridin-9(10H)-ones", Andreia I. S. Almeida, Vera Lúcia L. M. Silva, Artur M. S. Silva, Diana C. G. A. Pinto, José A. S. Cavaleiro, *Synlett*, **2012**, *23*, 889-892.
335. "Dimethyl 5,5-methylenebis(2-hydroxybenzoate)", Samuel Guieu, Paula Brandão, João Rocha, Artur M. S. Silva, *Acta Cryst.*, **2012**, *E68*, o1404.
336. "Advances in C-glycosylflavonoid Research", Oualid Talhi, Artur M. S. Silva, *Curr. Org. Chem.*, **2012**, *16*, 859-896.
337. "Tetrahydroquinazoline-substituted chromones from Diels-Alder reaction of (E)-2-styrylchromones and pyrimidine ortho-quinodimethane", Diana T. Patoilo, Artur M. S. Silva, Diana C. G. A. Pinto, Clementina M. M. Santos, Augusto C. Tomé, José A. S. Cavaleiro, *Tetrahedron Lett.*, **2012**, *53*, 2722-2725.
338. "Cationic β -vinyl substituted meso-tetraphenylporphyrins: synthesis and non-covalent interactions with a short poly(dGdC) duplex", Eduarda M. P. Silva, Catarina I. V. Ramos, Patrícia M. R. Pereira, Francesca Giuntini, Maria A. F. Faustino, João P. C. Tomé, Augusto C. Tomé, Artur M. S. Silva, M. Graça, Santana-Marques, M. Graça P.M.S. Neves, José A.S. Cavaleiro, *J. Porphyrins Phthalocyanines*, **2012**, *16*, 101-113.
339. "A new synthesis of novel alkenylated flavones by palladiumcatalyzed cross-coupling reactions", Szabolcs Fekete, Tamás Patonay, Artur M. S. Silva, and José A. S. Cavaleiro, *Arkivoc*, **2012**, *v*, 210-225.
340. "Synthesis and structure elucidation of novel pyrazolyl-2-pyrazolines obtained by the reaction of 3-(3-aryl-3-oxopropenyl)chromen-4-ones with phenylhydrazine", Clementina M. M. Santos, Artur M. S. Silva, József Jekő, Albert Lévaïd, *Arkivoc*, **2012**, *v*, 265-281.
341. "A new synthetic approach to benzoporphyrins and Kröhnke type porphyrin-2-ylpyridines", Nuno M. M. Moura, Maria A. F. Faustino, Maria G. P. M. S. Neves, Filipe A. Almeida Paz, Artur M. S. Silva, Augusto C. Tomé, José A. S. Cavaleiro, *Chem. Commun.*, **2012**, *48*, 6142-6144.
342. Separation and atropisomer isolation of ortho-halogenated tetraarylporphyrins by HPLC. Full characterization using 1D and 2D NMR, Carlos J.P. Monteiro, Mariette M. Pereira, Nuno P. F. Gonçalves, Carla G. Carvalho, Ângela C.B. Neves, Artur R. Abreu, Luis G. Arnaut, Artur M. S. Silva, *J. Porphyrins Phthalocyanines*, **2012**, *16*, 316-323.
343. "Phenolic constituents of *Lamium album*: Focus on isoscutellarein derivatives", Olívia R. Pereira, Maria R.M. Domingues, Artur M. S. Silva, Susana M. Cardoso, *Food Res. Int.*, **2012**, *48*, 330-335.

344. "Further Knowledge on the Phenolic Profile of *Colocasia esculenta* (L.) Shott", Federico Ferreres, Rui F. Gonçalves, Angel Gil-Izquierdo, Patrícia Valentão, Artur M. S. Silva, João B. Silva, Delfim Santos, Paula B. Andrade, *J. Agric. Food Chem.*, **2012**, *60*, 7005-7015.
345. "Synthesis of a Natural Chalcone and Its Prenyl Analogs – Evaluation of Tumor Cell Growth-Inhibitory Activities, and Effects on Cell Cycle and Apoptosis", Marta P. Neves, Raquel T. Lima, Kanthima Choosang, Panee Pakkong, M. São José Nascimento, M. Helena Vasconcelos, Madalena Pinto, Artur M. S. Silva, Honorina Cidade, *Chem. & Diversity*, **2012**, *9*, 1133-1143.
346. "Oxidation of diclofenac catalyzed by manganese porphyrins: synthesis of novel diclofenac derivatives" Cláudia M. B. Neves, Mário M. Q. Simões, M. Rosário M. Domingues, Isabel C. M. S. Santos, M. Graça P. M. S. Neves, Filipe A. Almeida Paz, Artur M. S. Silva, and José A. S. Cavaleiro, *RSC Advances*, **2012**, *2*, 7427–7438.
347. "Molecular Iodine in the Synthesis of Chromone-type Compounds", Diana C. G. A. Pinto, Artur M. S. Silva, *Curr. Org. Synth.*, **2012**, *9*, 561-572.
348. "Lipophilic extractives from the bark of *Eucalyptus grandis x globulus*, a rich source of methyl morolate: Selective extraction with supercritical CO₂", David J. S. Patinha, Rosário M. A. Domingues, Juan J. Villaverde, Artur M. S. Silva, Carlos M. Silva, Carmen S. R. Freire, C. Pascoal Neto, Armando J. D. Silvestre, *Ind. Crops Prod.*, **2012**, *43*, 340-348.
349. "Novel pyrazoline and pyrazole porphyrin derivatives: synthesis and photophysical Nuno M. M. Moura, Maria A. F. Faustino, Maria G. P. M. S. Neves, Augusto C. Tomé, El Mostapha Rakib, Abdellah Hannioui, Souad Majajidi, Steffen Hackbarth, Beate Röder, Filipe A. Almeida Paz, Artur M. S. Silva, José A. S. Cavaleiro, *Tetrahedron*, **2012**, *68*, 8181-8193.
350. "New Syntheses of 3-Aroylflavone Derivatives; Knoevenagel Condensation and Oxidation versus On-Pot Synthesis", Patrícia A. A. M. Vaz, Diana C. G. A. Pinto, Djenisa H. A. Rocha, Artur M. S. Silva, José A. S. Cavaleiro, *Synlett*, **2012**, *23*, 2353-2356.
351. "1,6-Conjugate Addition of Nucleophiles to –Diunsaturated Systems", Eduarda M. P. Silva, Artur M. S. Silva, *Synthesis*, **2012**, *44*, 3109-3128.
352. "1,3-Dicyclohexylimidazolidine-2,4,5-trione: a second polymorph", Oualid Talhi, José A. Fernandes, Diana C. G. A. Pinto, Artur M. S. Silva, Filipe A. Almeida Paz, *Acta Cryst.*, **2012**, *E68*, o3233–o3234.
353. "Synthesis of porphyrin indolin-2-one conjugates via palladium-catalyzed amination reactions", José C. J. M. D. S. Menezes, Ana M. V. M. Pereira, Maria G. P. M. S. Neves, Artur M. S. Silva, Sérgio M. Santos, Sabrina T. Martinez, Bárbara V. Silva, Angelo C. Pinto, José A. S. Cavaleiro, *Tetrahedron*, **2012**, *68*, 8330-8339.
354. "Eurocristatine, a new diketopiperazine dimer from the marine sponge-associated fungus *Eurotium cristatum*", Nelson M. Gomes, Tida Dethoup, Narong Singburadom, Luís Gales, Artur M.S. Silva, Anake Kijjoa, *Phytochemistry Lett.*, **2012**, *5*, 717–720.
355. "Facile synthesis of oxo-/thioxopyrimidines and tetrazoles C–C linked to sugars as novel non-toxic antioxidant acetylcholinesterase inhibitors", J. A. Figueiredo, M. I. Ismael, J. M. Pinheiro, Artur M. S. Silva, J. Justino, F. V. M. Silva, M. Goulart, D. Mira, M. E. M. Araújo, R. Campoy, A. P. Rauter, *Carbohydr. Res.*, **2012**, *347*, 47–54.
356. "Experimental Support for the Role of Dispersion Forces in Aromatic Interactions", Carlos F. R. A. C. Lima, Marisa A. A. Rocha, Lígia R. Gomes, John N. Low, Artur M. S. Silva, Luís M. N. B. F. Santos, *Chem. Eur. J.*, **2012**, *18*, 8934-8943.
357. "Elucidating the Role of Aromatic Interactions in Rotational Barriers Involving Aromatic Systems", Carlos F. R. A. C. Lima, Lígia R. Gomes, John N. Low, Artur M. S. Silva, Luís M. N. B. F. Santos, *J. Org. Chem.*, **2012**, *77*, 10422–10426.
358. "Characterisation of (*E*)-2-styrylchromones by electrospray ionisation mass spectrometry: singular gas-phase formation of benzoxanthenones", Eduarda M. P. Silva, M. Rosário M. Domingues, Artur M. S. Silva, José A. S. Cavaleiro, *Rapid Commun. Mass Spectrom.*, **2012**, *26*, 2251-2259.
359. "Secondary Metabolites from a Culture of the Fungus *Neosartorya pseudofischeri* and Their In Vitro Cytostatic Activity in Human Cancer Cells", Amnat Eamvijarn, Anake Kijjoa, Céline Bruyère, Véronique Mathieu, Leka Manoch, Florence Lefranc, Artur M. S. Silva, Robert Kiss, Werner Herz, *Planta Med.*, **2012**, *78*, 1767-1776.
360. "Supramolecular organization of bis(3-halo-4-dimethylaminobenzylidene)hydrazines", Samuel Guieu, João Rocha, Artur M.S. Silva, *J. Mol. Struct.*, **2013**, *1035*, 1-5.
361. "Electrochemical characterization of bioactive hydroxyxanthenes by cyclic voltammetry", Clementina M. M. Santos, M. Beatriz Q. Garcia, Artur M. S. Silva, René Santus, Patrice Morlière, Eduarda Fernandes, *Tetrahedron Lett.*, **2013**, *54*, 85-90.
362. "Consecutive Tandem Cycloaddition between Nitriles and Azides; Synthesis of 1-Amino-1H-[1,2,3]-triazoles, Ana T. P. C. Gomes, Priscila R. C. Martins, David R. Rocha, Maria G. P. M. S. Neves, Vitor F. Ferreira, Artur M. S. Silva, José A. S. Cavaleiro, Fernando de C. da Silva, *Synlett*, **2013**, 41-44.
363. Synthesis of β -Substituted Porphyrin Derivatives Containing Heterocyclic Moieties as Potential Photosensitizers Against Cutaneous Leishmaniasis, Mônica M. Bastos, Ana T. P. C. Gomes, Maria G. P. M. S. Neves, Artur M. S. Silva, Osvaldo A. Santos-Filho, Núbia Boechat, José A. S. Cavaleiro, *Eur. J. Org. Chem.* **2013**, 1485-1493.

364. "The structure of azines derived from C-formyl-1H-imidazoles in solution and in the solid state: tautomerism, configurational and conformational studies", 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, *Magn. Reson. Chem.*, **2013**, *51*, 203-221.
365. "One-pot synthesis of vicinal aminoalkanols from sugar aldehydes", Raquel G. Soengas, Artur M.S. Silva, *Tetrahedron*, **2013**, *69*, 3425-3431.
366. "Preparation of sugar-derived 1,2-diamines via indium-catalyzed aza-Henry-type reaction: application to the synthesis of 6-amino-1,6-dideoxynojirimycin", Raquel G. Soengas, Artur M. S. Silva, *Tetrahedron Lett.*, **2013**, *54*, 2156-2159.
367. "Ohmic heating as a new efficient process for organic synthesis in water", 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, *Green Chem.*, **2013**, *15*, 970-975.
368. "Synthesis of Unsymmetrical Methelenebisphenol Derivatives", Samuel Guieu, João Rocha, Artur M. S. Silva, *Synlett*, **2013**, *24*, 762-764.
369. "Estimation of ground- and excited-state dipole moments of 3-acetoacetylcoumarin derivatives from a solvatochromic shift method based on the solvent polarity parameter", Malika Makhloufi-Chebli, Safouane M. Hamdi, Amal Rabahi, Artur M. S. Silva, Maamar Hamdi, *J. Mol. Liq.*, **2013**, *181*, 89-96.
370. "Synthesis, crystal structure, and luminescence of tetrakis (4-methoxyphenyl)methane", Samuel Guieu, João Rocha, Artur M.S.Silva, *Tetrahedron Lett.*, **2013**, *54*, 2870-2873.
371. "Near-infrared emitters based on post-synthetic modified Ln³⁺-IRMOF-3", Reda M. Abdelhameed, Luis D. Carlos, Artur M. S. Silva, and João Rocha, *Chem. Commun.*, **2013**, *49*, 5019-5021.
372. "Chemical Study and Biological Activity Evaluation of Two Azorean Macroalgae: *Ulva rigida* and *Gelidium microdon*", Madalena Silva, Luís M. M. Vieira, Ana Paula Almeida, Artur M. S. Silva, Ana M. L. Seca, M. Carmo Barreto, Ana I. Neto, Madalena Pedro, Eugénia Pinto, Anake Kijjoo, *Oceanography*, **2013**, *1*, 102.
373. "Diastereoselective synthesis of benzofuran-3(2*H*)-one-hydantoin dyads", Oualid Talhi, José A. Fernandes, Diana C.G.A. Pinto, Filipe A. Almeida Paz, Artur S.M. Silva, *Tetrahedron*, **2013**, *69*, 5413-5420.
374. "Synthesis of 5-(2-Hydroxybenzoyl)-1,3-Disubstituted Uracils", Oualid Talhi, Diana C. G. A. Pinto, Artur M. S. Silva, *Synlett*, **2013**, *24*, 1147-1149.
375. "Influence of taro (*Colocasia esculenta* L. Shott) growth conditions on the phenolic composition and biological properties", Rui F. Gonçalves, Artur M. S. Silva, Ana M. Silva, Patrícia Valentão, Federico Ferreres, Angel Gil-Izquierdo, João B. Silva, Delfim Santos, Paula B. Andrade, *Food Chem.*, **2013**, *141*, 3480-3485.
376. "meso-Tetraphenylbenzoporphyrin-2²,2³-dicarboxylic Anhydride: A Platform to Benzoporphyrin Derivatives", Carla M. B. Carvalho, Sérgio M. Santos, Maria G. P. M. S. Neves, Augusto C. Tomé, Artur M. S. Silva, João Rocha, and José A. S. Cavaleiro, *J. Org. Chem.*, **2013**, *78*, 6622-6631.
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382. "Synthesis of new pyrazole-1,2,3-triazole dyads", Joana P. A. Ferreira, Vera L. M. Silva, José Elguero, Artur M. S. Silva, *Tetrahedron Lett.*, **2013**, *54*, 5391-5394.
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387. "One-Pot Three-Component Barbier-Type Reaction for the Synthesis of β -Nitroamines", Raquel G. Soengas, Artur M. S. Silva, *Synlett*, **2013**, 24, 1949-1952.
388. "Crystallization-induced light-emission enhancement of diphenylmethane derivatives", Samuel Guieu, João Rocha, Artur M. S. Silva, *Tetrahedron*, **2013**, 69, 9329-9334.
389. "(*E*)-3-Halo-2-styryl-4*H*-chromen-4-ones: synthesis and transformation to novel pyrazoles", Joana P. A. Ferreira, Vera L. M. Silva, José Elguero, Artur M. S. Silva, *Tetrahedron*, **2013**, 69, 9701-9709.
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393. "Organic Synthesis of *C*-Prenylated Phenolic Compounds", Oualid Talhi, Artur M. S. Silva, *Curr. Org. Chem.*, **2013**, 17, 1067-1102.
394. "A New Age for Iron: Antitumoral Ferrocenes", Susana S. Braga, Artur M. S. Silva, *Organometallics*, **2013**, 32, 5626-5639.
395. "Hydroxylated Polyfunctionalized Benzo[*c*]coumarins by an Organocatalyzed Tandem 1,4-Conjugate Addition, Decarboxylation and Aromatization Reaction", Oualid Talhi, Malika Makloufi-Chebli, Diana C. G. A. Pinto, Maamar Hamdi, Artur M. S. Silva, *Synlett*, **2013**, 24, 2559-2562.
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400. "3-Methylflavones characterization revisited: complete assignment of ^1H and ^{13}C NMR data", Djenisa H. A. Rocha, Diana C. G. A. Pinto, Raquel S. G. R. Seixas, Artur M. S. Silva, *Magn. Reson. Chem.*, **2014**, 52, 47-50.
401. "Inhibition of LOX by flavonoids: a structure-activity relationship study", Daniela Ribeiro, Marisa Freitas, Sara M. Tomé, Artur M. S. Silva, Graça Porto, Eurico J. Cabrita, M. Manuel B. Marques, Eduarda Fernandes, *Eur. J. Med. Chem.*, **2014**, 72, 137-145.
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407. "Synthesis of glyco-Fused Bicyclic Compounds; Conformationally Constrained Scaffolds and Useful Polyfunctional Building Blocks", Francisco Cardona, Giuseppe D'Orazio, Artur M. S. Silva, Francesco Nicotra, Barbara La Ferla, *Eur. J. Org. Chem.*, **2014**, 2549-2556.

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411. "Indigo dye production by enzymatic mimicking based on an iron(III)porphyrin", Susana L. H. Rebelo, Margarida Linhares, Mário M. Q. Simões, Artur M. S. Silva, M. Graça P. M. S. Neves, José A. S. Cavaleiro, Cristina Freire, *J. Catal.*, **2014**, 315, 33–40.
412. " Δ^1 -pyrroline based boranyles: Synthesis, crystal structures and luminescent properties", Francisco Cardona, João Rocha, Artur M.S. Silva, Samuel Guieu, *Dyes & Pigments*, **2014**, 111, 16-20.
413. "Xanthenedione Derivatives, New Promising Antioxidant and Acetylcholinesterase Inhibitor Agents", Ana M. L. Seca, Stephanie B. Leal, Diana C. G. A. Pinto, Maria Carmo Barreto, Artur M. S. Silva, *Molecules* **2014**, 19, 8317-8333.
414. "Lipophilic profile of the edible halophyte *Salicornia ramosissima*", Vera M. S. Isca, Ana M. L. Seca, Diana C. G. A. Pinto, Helena Silva, Artur M. S. Silva, *Food Chem.*, **2014**, 165, 330–336.
415. "Iridium-Mediated Debromination of *gem*-Bromonitroalkanes under Mild Conditions in Aqueous Medium", Rita C. Acúrcio, Raquel G. Soengas, Artur M. S. Silva, *Synlett*, **2014**, 25, 1561-1564.
416. "Synthesis, characterization and biological evaluation of carboranyl methylbenzo[*b*]acridones as novel agents for boron neutron capture therapy", A. Filipa F. Silva, Raquel S. G. R. Seixas, Artur M. S. Silva, Joana Coimbra, Ana C. Fernandes, Joana P. Santos, António Matos, José Rino, Isabel Santos, Fernanda Marques, *Org. Biomol. Chem.*, **2014**, 12, 5201–5211.
417. New synthetic methods for 2,3-diarylacridin-9(10*H*)-one and (*E*)-2-aryl-4-styrylfuro[3,2-*c*]quinoline derivatives", Vera L.M. Silva, Artur M.S. Silva, *Tetrahedron*, **2014**, 70, 5310-5320.
418. "Synthesis and optical properties of coumarins and iminocoumarins: Estimation of ground- and excited-state dipole moments from a solvatochromic shift and theoretical methods, Amal Rabahi, Malika Makhoulfi-Chebli, Safouane M. Hamdi, Artur M.S. Silva, Djaffar Kheffache, Baya Boutemour-Kheddis, Maamar Hamdi, *J. Mol. Liq.*, **2014**, 195, 240–247.
419. "Flavonoids as Therapeutic Compounds Targeting Key Proteins Involved in Alzheimer's Disease", Filipa I. Baptista, Ana G. Henriques, Artur M. S. Silva, Jens Wiltfang, and Odete A. B. da Cruz e Silva, *ACS Chem. Neurosci.*, **2014**, 5, 83–92
420. "Synthesis and Transformation of Halochromones", Sara M. Tomé, Artur M. S. Silva, Clementina M. M. Santos, *Curr. Org. Synth.*, **2014**, 11, 317-345.
421. "A green and sustainable method for the oxidation of 1,3-dihydrobenzo[*c*]thiophenes to sulfones using metalloporphyrin complexes", 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, *Catal. Commun.*, **2014**, 56, 68-71.

6. Supervisão de Estudantes de Pós-Graduação

6.1. Pós-Doutoral Fellows:

1. *Ignácio Lopez Martin*, Aminochromones: synthesis and 1,3-cycloaddition transformations, University of Aveiro, Oct/2001–Sept/2002, University of Aveiro, *Supervisor*.
2. *Alberto Coelho*, Synthesis and transformations of 4-Quinolones, Oct/2002–Sept/2003, University of Aveiro, *Supervisor*.
3. *Vera Lúcia Marques da Silva*, Studies on the synthesis and transformation of new derivatives of 4-quinolones, University of Aveiro, since Oct/2006, University of Aveiro, *Supervisor*.
4. *Eduarda Marlene Peixoto da Silva*, Development of asymmetric and catalytic methods for 1,6-conjugate additions, since Jan/2010, University of Aveiro, *Supervisor*.
5. *Samuel Jacques André Guieu*, Metal-Organic-Polyhedra and Covalent Cages Synthesis, since March 2011, University of Aveiro, *Co-supervisor*.
6. *Raquel Sofia Grevy Ribeiro Seixas*, Development of new synthetic methodologies and biological activity evaluation of polyhydroxylated 4-quinolones and acridones. Reactivity studies of 4-quinolones in Diels-Alder and Multicomponent Reactions, since April 2011, University of Aveiro, *Supervisor*.
7. *Susana Isabel Fonseca de Almeida Santos Braga*, Containing the growth of osteosarcoma (MG63) cells with metallopharmaceuticals, since Jan 2012, University of Aveiro, *Supervisor*.
8. *Carlos Filipe Reis Costa Lima*, Kinetic study of phase transition processes. Influence of molecular symmetry, flexibility and internal rotation, since May 2012, University of Aveiro, *Co-supervisor*.

6.2. PhD Thesis - in Chemistry

1. *Diana Cláudia Gouveia Alves Pinto*, Synthesis, structural characterisation and transformations of pyrazoles, University of Aveiro, 1996, *Co-supervisor*.
2. *Angela Sandulache*, New routes for the synthesis of xanthenes, University of Aveiro, 2001, *Co-supervisor*.
3. *Diana Torrão Patoilo*, Synthesis and Diels-Alder transformations of 2-styrylchromones, University of Aveiro, 2005, *Supervisor*.
4. *Ana Isabel Novo Amorim Barros*, Synthesis and transformations of nitroflavonoids, University of Trás-os-Montes e Alto Douro, 2004, *Supervisor*.
5. *Vera Lúcia Marques da Silva*, Synthesis and transformations of 3-styrylchromones and 3-(2-hydroxyphenyl)pyrazoles with potential analgesic activity, University of Aveiro, 2006, *Supervisor*.
6. *Raul-Alfonso Izquierdo-Cabezudo*, Mass spectrometry of cationic compounds and their non covalent adducts with oligonucleotides University of Aveiro, 2006, *Co-supervisor*.
7. *Jorge Miguel Alves Pinheiro*, Synthesis of new pseudo-C-Nucleosides. Determination of their biological activity, University of Aveiro Beira Interior, 2007, *Supervisor*.
8. *Clementina Maria Moreira dos Santos*, Transformations of alpha,beta- and alpha,beta,gamma,deltaunsaturated ketones. New synthetic routes of 2,3-diaryl-xanthenes, University of Aveiro, 2007, *Supervisor*.
9. *Susana Isabel Dinis Pereira*, Organocatalyse and asymmetric catalysis: New applications of ferrocenylphosphines and nitromethane addition to conjugate substrates, 2008, University of Aveiro, *Supervisor*.
10. *Andrea Gabriela Peres Rodrigues Figueiredo*, Transformations of chromone-3-carbaldehyde and of (E)-ortho-di-hydroxy-2-styrylchromonolignans, 2008, University of Aveiro, *Supervisor*.
11. *Raquel Sofia Grevy Ribeiro Seixas*, Synthesis and transformation of novel quinolone-type compounds with potential antitumour activity, 2011, University of Aveiro, *Supervisor*.
12. *Andreia Isabel Sousa Almeida*, Development of new synthetic routes of novel 4-quinolones and acridones with potential biological applications, 2012, University of Aveiro, *Supervisor*.
13. *Oualid Talhi*, Synthesis and biological activities of polyphenolic hybrids, 2012, University of Aveiro, *Supervisor*.
14. *Francisco Miguel Ribeiro Cardona*, Synthesis of new A-ligands useful in diagnosis of Alzheimer's disease, 2013, University of Aveiro, *Supervisor*.
15. *Joana Patrícia Araújo Ferreira*, Development of new synthetic routes of pyrazoles and indazoles with potential cannabinoide activity, 2014, University of Aveiro, *Supervisor*.
16. *Diana Isabel Soares Pereira Resende*, Studies on asymmetric 1,4- and 1,6-organocatalytic conjugate additions towards compounds with therapeutic interest (start on Jan 2010), University of Aveiro, *Supervisor*.
17. *Carla Maria Dias Marques Oliveira*, Oxidation Management of Alcoholic Beverages (start on Jan 2010), University of Aveiro, *Supervisor*.
18. *Reda Mohamed Abdelhameed Ahmed*, Post synthetic modification of metal organic frameworks (start on Jan 2010), University of Aveiro, *Co-supervisor*.
19. *Djenisa Helene Ascensão Rocha*, Development of new synthetic routes for novel chromones and 4-quinolones with potencial biological applications (start on April 2011), University of Aveiro, *Supervisor*.
20. *Joana Lia Cardoso de Sousa*, Development of new synthetic methods and evaluation of the antioxidante and anti-inflammatory activity of novel polyphenolic compounds (start on Jan 2012), University of Aveiro, *Supervisor*.
21. *Joana Filipa Gonçalves Pinto*, Development of new synthetic methods and evaluation of the antioxidante activity of polyhydroxylated 4-quinolones and acrinove. Reactivity studies of 4-quinolones in Diels-Alder and multicomponent reactions (start on Jan 2012), University of Aveiro, *Supervisor*.

6.3. PhD Thesis in other areas

1. *Sandra Lopes da Silva*, NMR in the characterization of heavy residual and procedural streams, 2014, PhD in Refining, Petrochemical and Chemical Engineering, University of Aveiro, *Supervisor*.
2. *Vanessa Jesus Oliveira*, Microbe-mediated recovery salt marshes contaminated with oil hydrocarbons (start on Nov 2009), PhD in Biology, University of Aveiro, *Co-supervisor*.
3. *Catarina Daniela Gonçalves Pinto Varanda*, Desenvolvimento de Betumes e Análise do Seu Processo Produtivo (start on 2012), PhD in Refining, Petrochemical and Chemical Engineering, University of Aveiro, *Co-supervisor*.

6.4. MSc. Thesis

1. *Maria de Oliveira Martins de Carvalho*, Síntese e complexação de flavonas com iões de metais de transição, MSc. in Chemistry-Physics Teaching, University of Aveiro, 1997, *Supervisor*.

2. *João Mário de Jesus Ferreira de Vasconcelos*, Estudo da composição química do extracto de acetona da *Artemisia campestris* L. Subsp. *maritima* Arcangeli, MSc. in Chemistry-Physics Teaching, University of Aveiro, 1997, *Supervisor*.
3. *Ana Isabel Ramos Novo Amorim de Barros*, Synthesis of New 2-Styrylchromones with Potential Antitumour Activity, MSc. in Chemistry, of Natural Products and Food Stuffs, University of Aveiro 1999, *Supervisor*.
2. *Clementina Maria Moreira dos Santos*, Synthesis and Evaluation of the Antioxidant Activity of Polyhydroxy-2-styrylchromones, MSc. in Chemistry of Natural Products and Food Stuffs, University of Aveiro, 2000, *Supervisor*.
3. *Judite Santos Vieira*, 2-Styrylchromones: Synthesis and Transformation into 1,2,3-Triazoles, MSc. in Chemistry of Natural Products and Food Stuffs, University of Aveiro, 2000, *Supervisor*.
4. *Vera Lúcia Marques da Silva*, Synthesis and transformation of 5-styryl-3-(2-hydroxyphenyl)pirazoles, MSc. in Natural Products and Food Chemistry, University of Aveiro, 2002, *Supervisor*.
5. *Susana Isabel Dinis Pereira*, Chemical Composition of Eucalyptus globulus fruits, MSc. in Biomolecular Methods, University of Aveiro, 2003, *Supervisor*.
6. *Sérgio Carreira Leal*, Organic Chemistry in the Secondary School: Perceptions and proposals, MSc. in Chemistry-Physics Teaching, University of Aveiro, 2006, *Supervisor*.
7. *Maria Adelaide Cotovio Salvador*, Conjugate addition of nitromethane to (E,E)-cinnamylideneacetophenones and (E)-2-styrylchromones, MSc. in Chemistry of Natural Products, University of Aveiro, 2006, *Supervisor*.
8. *Maria Margarida Cabrito de Freitas*, Novel polyhydroxy-2- and 3-styrylchromones with potential antioxidant activity, MSc. In Chemistry of Natural Products, University of Aveiro, 2006, *Supervisor*.
9. *Carla Maria Dias Marques Oliveira*, Resistance of wines to oxidation, MSc. in Chemistry of Natural Products, University of Aveiro, 2006, *Supervisor*.
10. *Juliana Sofia Gomes da Silva*, Studies on the Heck reaction of cinnamylideneacetophenones with iodosylbenzene, MSc. in Chemistry of Natural Products, University of Aveiro, 2008, *Co-supervisor*.
11. *Maria Margarida Feitor Pintão Moreno Antunes*, Synthesis of new 1,5-benzodiazepine-type compounds, MSc. in Chemistry of Natural Products, University of Aveiro, 2008, *Supervisor*.
12. *Joana Patrícia Araújo Ferreira*, Halogenation studies of 5-styryl-3-(2-hydroxyphenyl)-1H-pyrazoles, MSc. in Chemistry of Natural Products, University of Aveiro, 2008, *Supervisor*.
13. *Diana Isabel Soares Pereira Resende*, Studies on the addition of nucleophilic to $\alpha,\beta,\gamma,\delta$ -unsaturated compounds: Organocatalysis and asymmetric transformations, MSc. in Chemistry of Natural Products, University of Aveiro, 2008, *Supervisor*.
14. *Regina Maria da Silva Sousa*, Synthesis of flavones-nitrogen heterocyclic compounds through cycloaddition reactions, MSc. in Chemistry of Natural Products, University of Aveiro, 2009, *Supervisor*.
15. *Cristela Matos de Brito*, New synthetic routes of 1-arylxanthenes, MSc. in Chemistry of Natural Products, University of Aveiro, 2009, *Supervisor*.
16. *Djenisa Helene Ascensão Rocha*, Studies on the Heck reaction of 3-bromoflavones with styrenes, MSc. in Chemistry of Natural Products, University of Aveiro, 2009, *Co-supervisor*.
17. *Sara Mirassol Tomé*, (E)-C-Glycosyl-2-styrylchromones with potential antioxidant activity, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2010, *Supervisor*.
18. *Patrícia Alexandra Amaro Martins Vaz*, Synthesis and transformation of novel 4-quinolone derivatives, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2010, *Co-supervisor*.
19. *Frederico Ribeiro Baptista*, Synthesis of Prenylated (E)-2-Styrylchromones, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2011, *Supervisor*.
20. *Ana Margarida Alves de Oliveira*, Evaluation of protective effect of luteolin derivatives in a Huntington model, MSc. in Biochemistry, speciality in Clinical Biochemistry, 2012, *Supervisor*.
21. *Rui Filipe Garcia Gonçalves*, *Colocasia esculenta* (L.) Shott: phenolic profile and bioactivity, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2012, *Supervisor*.
22. *Pedro António Martins Mira Varandas*, Synthesis of 1,2-Dihydropyridines, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2012, *Supervisor*.
23. *Sónia Pereira Lopes*, Dyads porphyrin-flavonoid, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2012, *Co-supervisor*.
24. *Guido Rocha Lopes*, Flavonóides: biotransformação em derivados de valor acrescentado, MSc. In Biotechnology, speciality Industrial and Environmental Biotechnology, University of Aveiro, 2012, *Co-supervisor*.
25. *Carolina Duarte Maia Seabra Amador*, Pyridines scaffolds as modulators of GPCRs, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2013, *Supervisor*.
26. *Joana Rita Castro Costa*, Synthesis of novel imidazole-based CNS active compounds, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2013, *Supervisor*.
27. *Ana Rita de Carvalho Acúrcio*, Synthesis of C-glycosyl polyphenolic compounds, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2014, *Supervisor*.

28. *Orlando Delfim Carvalho Couto de Azevedo*, New developments in the synthesis of new flavone derivatives, MSc. in Chemistry, speciality in Natural Products, University of Aveiro, 2014, *Supervisor*.
29. *Rute das Neves Sarabando Carlos*, Deconstruction of plant biomass by autohydrolysis, MSc. in Chemistry, speciality in Analytical Chemistry, University of Aveiro, 2014, *Co-supervisor*.

7. Participation in financed R&D projects

1. *Partner* - Evaluation of the genotoxic effect flavonyl acetic acids and related compounds (JNICT, PECS/C/SAU/250/95; 1/1995 to 12/1998).
2. *Partner* - Development of pesticides activated by light (PRAXIS 2/2.1/QUI/324/94; 5/1997 to 4/2000)-
3. *Partner* - Influence of Procyanidin Structures on their ability to complex with anthocyanins - A molecular approach (POCTI/QUI/40124/2001; 02/01/2002 to 01/01/2005)
4. *Partner* - Reactivity of porphyrin macrocycles as dienophiles (POCTI/QUI/32851/1999; 01/01/2001 to 30/06/2004)
5. *Coordinator* - Study of the reactivity and transformations of styrylchromones and related compounds (POCTI/QUI/38394/2001; 01/03/2002 to 28/02/2005)
6. *Coordinator* - Synthesis, transformation and reactivity studies of novel 2- and 3-substituted 4-quinolones (POCI/QUI/58835/2004; 01/09/2005 to 31/08/2008).
7. *Partner* - Synthesis of chromones and in vitro evaluation of their antioxidant and anti-inflammatory properties (POCI/QUI/59284/2004; 01/09/2005 to 31/08/2008).
8. *Partner* - Reactions between catechins and anthocyanins: Synthesis of new pigments (PTDC/QUI/67681/2006; 01/09/2007 to 31/10/2010).
9. *Partner* - FOOD NEOCOLORS - Synthesis and physical-chemical characterization of new anthocyanin-derived pigments with potential application in the Food Industry (PTDC/AGR-ALI/65503/2006; 01/03/2007 to 31-10-2010).
10. *Partner* - New Methodologies to Study the Taste of Foods: Interpretation of Food Astringency (PTDC/AGR-ALI/67579/2006; 01-09-2007 to 28-11-2011).
11. *Responsible in Portugal* - Natural Products and related Redox Catalysts: Basic Research and Applications in Medicine and Agriculture (MC Support for training and career development of researchers (Marie Curie)- ITN 215009); 01/12/2008-30/11/2012.
12. *Partner* - Bioactive products in marine algae of Azores (AzoAlg) (PTDC/MAR/100482/2008; 01-06-2010 to 31-05-2013).
13. *Partner* - Development of Organic Synthesis Methodologies Based on an Ohmic Heating Reactor (PTDC/QUI-QUI/102454/2008; 01-06-2010 to 31-05-2013)
14. *Coordinator* - Projeto n° FCOMP-01-0124-FEDER-037296 (FCT PEst-C/QUI/UI0062/2011); 01/01/2011-31/12/2013.
15. *Coordinator* - Projeto n° FCOMP-01-0124-FEDER-037296 (FCT PEst-C/QUI/UI0062/2013); 01/01/2013-31/12/2015.
16. *Coordinator* - New Strategies Applied to Neuropathological Disorders” (CENTRO-07-ST24-FEDER-002034; 01/01/2013-30/06/2015)

8. Prizes and awards received

1. Estímulo à Excelência Award - Excellence in R&D - from the Portuguese Government (Ministerio da Ciência, Inovação e Ensino Superior), 2004.
2. APDF Scientific Award 2005, best French-Portuguese collaboration Project; “Associação Portuguesa de Doutorados em França (APDF)” / French Embassy, 2005.

Aveiro, /August/2014