

***CURRICULUM VITÆ* Of ARTUR MANUEL SOARES DA SILVA**

Full Professor of Chemistry, Department of Chemistry

Vice-rector for Research, Innovation, Doctoral School

and Accreditation of Study Programmes

University of Aveiro, Portugal

President of the Clinical Academic Centre Egas Moniz Health Alliance

Fellow of the European Academy of Sciences and of the Chemistry Europe

Elect Correspondent Fellow of the Sciences Academy of Lisbon – Section of Chemistry

1. Synopsis

Artur M. S. Silva has a degree in Chemistry-Physics (for Teaching), a Ph.D. degree in Organic Chemistry, a Habilitation on Chemistry and is Full Professor of Chemistry at the Department of Chemistry University of Aveiro (Universidade de Aveiro). He was Invited Professor at the University of Metz, University of Paul Verlaine and University of Le Havre, all from France.

Artur M. S. Silva served as President of the Chemistry Department and as President of the Board of the Doctoral School and nowadays is President of the Scientific Council and Vice-rector Research, Innovation, Doctoral School and Accreditation of Study Programmes, University of Aveiro. He was Director of several Study Programmes (BSc, MSc and PhD) and still is Deputy director of the Doctoral Program in Sustainable Chemistry (a joint Doctoral Program with Universities of Porto and New University of Lisbon).

Artur M. S. Silva was President of the Portuguese Chemical Society (SPQ, since July 2016/ February 2023) and has served as Vice-President and Chairman of the Supervisory Board of SPQ, President (2 terms of 2 years each) and Vice-President (2 terms of 2 years each) of the Organic Chemistry Division of SPQ, and Member of the Steering Committee of the Therapeutic Chemistry Division (10 years). He is the Portuguese representative in the Organic Chemistry Division of EuChemMS and member elect of the Executive Board of EuChemS (since 2017).

Artur M. S. Silva served as Director of the QOPNA (Organic Chemistry, Natural Products and Food Stuff) research centre (around 150 researchers) and nowadays is Vice-Director of the Associate Laboratory for Green Chemistry (LAQV, a research centre within ca 900 researchers, involving mainly University of Porto, New University of Lisbon and University of Aveiro). He was, for several years, member of the FCT

individual scholarship evaluation panel and Chairman of the same panel for two years (2019 and 2020). He was also Chair of several National and International Scientific meetings, being the organizer of the European Chemistry Congress (EuChemS), held in Lisbon in 2022.

Artur M. S. Silva published more than 810 SCI papers, 1 e-book, 53 book chapters, delivery more than 60 lectures in scientific meetings and is co-author of 4 patents. His publications have been cited by more than 19500 times and his Hirsch-index is 62. He supervised 19 post-doctoral fellows, 40 PhD students and 43 MSc students; he has also participated in 33 financed Portuguese and European projects and in 8 bilateral financed projects with European Research Groups. Reflecting this prolific work, Artur Silva is an active participant in numerous international and national conferences as invited plenary and keynote speaker.

Artur M. S. Silva is Fellow of the European Academy of Sciences and of the Chemistry Europe since 2017, he was elect as Correspondent Member of the Academia das Ciências de Lisboa, and has been awarded with some other Distinctions and Awards.

Artur Silva's research interests range over the chemistry of polyphenolic and nitrogen heterocyclic compounds, with special emphasis on the development of new sustainable synthetic routes, and also on the organocatalytic and metal-catalyzed transformations. It is important to highlight the application of ohmic heating, as an alternative heating process, to the chemistry synthesis. The second passion of his research is centred in the isolation and structural characterization of natural products from diverse terrestrial and marine sources. But all these scientific activities it is supported in his strong knowledge on NMR spectroscopy. The third axis of their research are focused on the synthesis of biologically active oxygen and nitrogen heterocyclic compounds, as well as on the evaluation of their antioxidant, anti-inflammatory, antitumor and antimicrobial activity in collaborations with other Portuguese and International research groups.

2. Personal data

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3. Education**3.1. Academic Degrees**

- **25/06/87:** “Licenciatura” (licentiate; 5 years) degree in Teaching Physics and Chemistry (for teaching), University of Aveiro, with a final grade of 15 out of 20.
- **22 and 23/02/90:** Proofs of Pedagogical Aptitude and Scientific Capacity (equivalent to Master), University of Aveiro, with a final grade of Very Good.
- **31/07/1993:** PhD in Chemistry, specialty of Organic Chemistry, University of Aveiro, with a final grade of distinction and praise (cum laude).
- **28 and 29/06/1999:** Habilitation in Chemistry, specialty of Chemistry of Natural Products, Univ Aveiro.

4. Academic Career**4.1. Teaching Activities**

- **Academic year 1985/86:** Monitor, Department of Chemistry, University of Aveiro. He also developed, during this period, a small research project on the improvement of the alkylation method of phenolic compounds.
- **01/10/86 to 01/11/87:** Teacher of Secondary School, Chemistry-Physics.
- **02/11/87 to 23/02/90:** Teaching Trainee Assistant, Department of Chemistry, University of Aveiro.
- **24/02/90 to 31/07/1993:** Teaching Assistant, Department of Chemistry, University of Aveiro.
- **01/08/1993 to 05/02/1996:** Assistant Professor, Department of Chemistry, University of Aveiro.

- **06/02/1996 to 31/01/2001:** Associate Professor, Department of Chemistry, University of Aveiro.
- **01/02/2001.....**Full Professor, Department of Chemistry, University of Aveiro.

4.2. Teaching Experience

- Undergraduate, Master and PhD programs.
- Subjects: Organic Chemistry; Chemistry of Natural Products; Medicinal Chemistry; General Chemistry; New Strategies in Chemical Synthesis; Nuclear Magnetic Resonance Spectroscopy, Structural Characterisation Techniques; Advanced Topics in Chemistry, among others.

4.3. Positions/Appointments

- **01/01/2001 to 31/12/2006:** President of the Department of Chemistry, University of Aveiro.
- **02/2013 to 05/2018:** President of the Board of the Doctoral School, University of Aveiro.
- **05/2018-....:** President of the Scientific Council, University of Aveiro.
- **05/2018-... (now second term of 4 years):** Vice-Rector for Research, Innovation, Doctoral School and Accreditation of Study Programmes, University of Aveiro.
- **10/1999 to 12/2000:** Director of the “Licenciatura” Degree in Industrial Chemistry and Management, Department of Chemistry, University of Aveiro.
- **01/2007 to 05/2018:** Responsible for all Pos-graduated Studies, Dep Chemistry, University of Aveiro.
- **10/2006 to 12/2010:** Director of the Master's course – 2nd Bologna Cycle – in Organic Chemistry and Natural Products, Department of Chemistry, University of Aveiro.
- **01/2009 to 05/2018:** Director of the Master's course – 2nd Bologna Cycle – in Chemistry, Department of Chemistry, University of Aveiro.
- **01/2007 to 05/2018:** Director of the Doctoral Program in Chemistry, Dep Chemistry, Univ Aveiro.
- **09/2013-....:**Deputy director of the Doctoral Program in Sustainable Chemistry since 2013 (a joint Doctoral Program with Universities of Porto and New University of Lisbon).

5. Scientific Activities

5.1. Research Activities

5.1.1. Positions/Appointments

- **Director of the QOPNA (Organic Chemistry, Natural Products and Food Stuffs) research centre** (around 150 researchers), from 2014 to 2018.
- **Vice-Director of the Associate Laboratory for Green Chemistry (LAQV, a research centre within ca 900 researchers, involving mainly University of Porto, New University of Lisbon and University of Aveiro), since 2017.**
- **Member of numerous juries of Habilitation and Doctoral exams** (more than 150) in Portugal, Spain, France and Argelia, being the main rapporteur in many of them, and in several Master's juries.
- **Belonged to the FCT individual scholarship evaluation panel of the Chemistry Scientific area** (2005, 2006, 2008, 2009, 2010, 2013 and 2016) and the University of Aveiro (since 2005-2008; 2018-2022 as a member and President of the jury).
- **Chairman of the evaluation panel for individual FCT scholarships in the area of Chemistry in 2019 and 2020.**
- Vice-President of the Organic Chemistry Division of the Portuguese Chemical Society, from 1999 to 2001 and from 2005 to 2007.
- President of the Organic Chemistry Division of the Portuguese Chemical Society, from 2001 to 2003 and from 2007 to 2009.
- Chairman of the Supervisory Board of the Portuguese Chemical Society, from 2010 to 2013.
- Member of the Creation and Management Committee of the Therapeutic Chemistry Group of the Organic Chemistry Division of the Portuguese Chemical Society, from 2006 to 2008.
- Member of the Steering Committee of the Therapeutic Chemistry Division of the Portuguese Chemical Society, from 2008 to 2015.
- Portuguese representative in the Organic Chemistry Division of EuChemMS, since January 2007.
- Member of the Scientific Council of ASAE (Authority for Food and Economic Security in Portugal), from 2008 to 2013.

- Member of the Specialized Technical Commission “Biological Risks” of ASAE since 2014-....
- **Vice President of the Portuguese Chemical Society** from June 2013 to June 2016.
- **President of the Portuguese Chemical Society** since July 2016...
- **Member of the EuChemS Executive Board** since January 2017.

- **Chair of Several National and International Scientific Meetings:**
 - 5th National Meeting of Organic Chemistry and 1st Luso-Japanese Symposium, held in Aveiro, 01-04/July/2003.
 - 4th Transmediterranean Symposium on Heterocyclic Chemistry, held in Aveiro, 23-27/June/2006.
 - 8th National Meeting of Organic Chemistry, held in Aveiro, 01-03 July 2009.
 - XVI Luso-Galego Chemistry Meeting, held in Aveiro, 10-12 November 2010.
 - Congress “Natural Products and Related Redox Catalysts: Basic Research and Applications in Medicine and Agriculture”, held in Aveiro, 25-27 November 2012.
 - 3rd National Meeting of Therapeutic Chemistry + 1st Luso-Spanish-Brazilian Symposium on Medicinal Chemistry, held in Aveiro, November 28-30, 2012.
 - XXIII National Meeting of the Portuguese Chemical Society, held in Aveiro, 12-14 June 2013.
 - XXV National Meeting of the Portuguese Chemical Society, held at University of Lisbon, 16-19 July 2017.
 - 7th EuChemS Organic Chemistry Division Young Investigators Workshop, held in Aveiro, July 9-11, 2015,
 - And President of the National Organizing Committee of the XXV National Meeting of the Portuguese Chemical Society, held at the Faculty of Pharmacy, University of Lisbon, July 16-19, 2017.
 - And President of the Scientific Council and the National Organizing Committee of the XXVI National Meeting of the Portuguese Chemical Society, held at the Faculty of Sciences, University of Porto July 24-26.

- **Member of the scientific committee of the congress “Transmediterranean Symposium in Heterocyclic Chemistry”**, which takes place every two years, since 2000.

- **Member of the scientific committee of the congress “Heterocyclic Colloquium in Heterocyclic Chemistry”**, which takes place every two years, since 2016.
- **Member of the Scientific Committee of Several National (8) and International (21) Scientific Meetings. It should be highlighted European Chemistry Congress (EuChemS), held in Lisbon, 2022, since it wasn't only member of the scientific committee but the main organizer.**

5.1.2. Editorial Duties

- Member of the International Advisory Board of *European Journal of Organic Chemistry*, 01/2006 to 12/2013.
- Member of the Editorial Board of *Mediterranean Journal of Chemistry*, since 01/2011.
- Member of the Editorial Board of *Green and Sustainable Chemistry*, since 07/2011.
- Member of the Editorial Board and Associate Editor of *E-Journal of Chemistry*, since 03/2012.
- Member of the Editorial Board of *Current Organic Chemistry*, since 01/2016.
- Member of the Editorial Board of *Molecules*, since 05/2016.
- Member of the Editorial Board of *Letters in Organic Chemistry*, since 05/2016.
- Member of the Editorial Board of *Methods and Protocols*, since 04/2018.
- Member of the Editorial Board of *Sci Journal*®, since 05/2018.
- Managing Editor of *SynOpen* da Thieme Chemistry, since 01/2019.
- **Gest editor of Special Issue of Molecules [2016, vol. 22; 2019, vol. 24 (2 issues); 2020, vol. 25; 2021, vol. 26; 2022, vol. 27), Marine Drugs [2018, vol. 16; 2022, volume 20]; Methods & Protocols (2020, vol. 2);**

5.1.3. Research Interests

- Organic chemistry.
- Medicinal chemistry.
- Chemistry of heterocyclic and carbohydrate products.
- Organocatalysis and transformations catalyzed by transition metals.

- Natural products, namely chemical characterization of plant species and the isolation of phenolic compounds.
- Food Chemistry.
- Use of several techniques of nuclear magnetic resonance, mono and bidimensional, in the structural characterization of several types of compounds, namely polyphenolics, pyrazoles, pyrimidines, porphyrins and organometallics.

5.1.4. Participation in R&D Projects: 33

5.1.5. Participation in international financed bilateral projects: 8

5.2. Publications in International Periodics and Books and Book Chapters

5.2.1. Publications: > 810

5.2.2. Patents: 4

5.2.3. Books: 2

5.2.4. Book Chapters: 53

5.2.5. Oral communication, Invited and Plenary Lectures: > 60

5.3. Supervision of Pos-doctoral Fellows, PhD and MSc Students

5.3.1. Supervision of Pos-doctoral Fellows: 19

5.4.2. Supervision of PhD Students: 40 (+ 10 ongoing)

5.4.3. Supervision of MSc Students: 43 (+ 2 ongoing)

5.5. Distinctions and Awards

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.
3. The Municipality of Marco de Canaveses attributed, the gold medal for cultural and scientific merit for the 'brilliant research work and undeniable reference in scientific circles, that much honor the county", July/2102.
4. Fellow of the European Academy of Sciences, Since January 2017.
5. Fellow of the Chemistry Europe 2017 – European Chemical Societies Publishers (assigned at the EuChemS meeting in August 2018, Liverpool).

5. Elect Correspondent Fellow of the Sciences Academy of Lisbon – Section of Chemistry, since 3/12/2020.

5.6. Invited Professor

1. University of Metz - as *Professor and Director of Research in Organic Chemistry and Structural Characterisation*, July 2003.
2. University of Paul Verlaine - Metz, as *Professor and Director of Research in Organic Chemistry and Structural Characterisation*, July 2012.
3. University of Le Havre – Normandie, as *Invited Professor and Researcher*, June 2018.

7. Scientific collaborations

Collaboration with national research groups (Faculty of Pharmacy, Faculty of Sciences and Abel Salazar Sciences Institute of the University of Porto; Chemistry Department of the University of Trás-os-Montes and Alto Douro) and foreign (Spanish, French, German, Luxembourgers, Hungarians, South Koreans, Brazilians, Tunisians and Algerians).

2023

Artur Silva