

***Eliana Alves***

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*Curriculum vitae*

*November 2018*


## PERSONAL INFORMATION

## Eliana Sousa Cruz Ferreira Alves



 Mass Spectrometry Centre, Department of Chemistry & QOPNA, University of Aveiro, Campus Universitario de Santiago, 3810-193 Aveiro (Portugal)

 elianaalves@ua.pt

 <http://www.degois.pt/visualizador/curriculum.jsp?key=4727006163553863>

Nationality Portuguese

## WORK EXPERIENCE

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- 01/2016–Present **Postdoctoral researcher (fellowship)**  
Mass Spectrometry Centre, Department of Chemistry & QOPNA, University of Aveiro, Aveiro (Portugal)  
Title of the working programme: "Identity and traceability of origin of Portuguese olives and olive oil: development of methodologies to decipher their molecular fingerprint"
- 02/2014–12/2015 **Postdoctoral researcher (grant from a project)**  
Mass Spectrometry Centre, Department of Chemistry & QOPNA, University of Aveiro, Aveiro (Portugal)  
Acquiring expertise in lipidomics  
External services (lipidomic analysis)
- 09/2004–08/2008 **Assistant Professor in Biomedical Laboratory Science**  
School of Health, Polytechnic Institute of Porto, Porto (Portugal)  
Teaching Bacteriology, Mycology, Clinical Biochemistry, Immunohematology, Laboratory Hematology, Water and Food Chemistry, Research in Biomedical Science

## EDUCATION AND TRAINING

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- 09/2008–11/2013 **PhD degree in Biology - Specialization in Microbiology** ISCED 6  
Department of Biology & CESAM, University of Aveiro (Portugal)  
Thesis title: Photodynamic inactivation of bacteria by cationic porphyrins: their cellular targets and potential environmental applications
- 11/2006–12/2007 **MSc degree in Microbiology (17 score out of 20)** ISCED 5A  
Department of Biology & CESAM, University of Aveiro (Portugal)  
Dissertation title: Photoinactivation of *Escherichia coli* and *Enterococcus faecalis* by free and immobilized porphyrins
- 09/2000–12/2004 **BSc in Biomedical Science (16 score out of 20)** ISCED 5  
School of Allied Health Sciences, Porto Polytechnic Institute (Portugal)  
Final project title: Competencies in Biomedical Science: the employers' perspective

## PERSONAL SKILLS

Mother tongue(s) Portuguese

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B1	B1	B1	B1	B1
French	A2	A2	A2	A2	A1
Italian	A1	A1	A1	A1	A1
German	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

## ADDITIONAL INFORMATION

### Main scientific areas of research

Biochemistry and Microbiology

### Other scientific areas of interest

Lipidomics (lipid analysis through chromatographic and mass spectrometry techniques) \* Food Chemistry \* Food Safety \* Olives \* Olive oil \* Olive/olive oil's industry by-products \* Olive oil's authenticity and identity \* Polar lipids \* Neutral lipids \* Lipid fingerprinting

Photobiological sciences (Bioluminescence, Photobiology, Photochemistry, Photosensitization) \* Photodynamic inactivation of microorganisms \* Potential applications of photodynamic inactivation beyond the medical scope \*

### Scientific and scientific-pedagogical activity

- Publications: 1 PhD thesis, 1 MSc dissertation, 1 national patent, 33 papers in indexed international scientific journals with referees, 52 oral and/or poster presentations in national and/or international meetings/conferences, 4 papers in conference proceedings with scientific refereeing and 1 text in newspapers or magazines
- Student's supervisions: 4 BSc students (Biochemistry degree and Biotechnology degree, Department of Chemistry, University of Aveiro)
- Student's co-supervisions: 1 MSc student (Microbiology, Department of Biology, University of Aveiro) and 2 BSc students (Biomedical Laboratory Science, School of Health, Polytechnic Institute of Porto)
- Jury in academic examinations: arguer of 1 MSc's dissertation in Biotechnology; member of 1 jury of MSc's dissertation in Microbiology; member of 23 juries of BSc's research projects in Biomedical Laboratory Science, Biochemistry and Biotechnology (arguer in 6 of them)
- Member of organizing and scientific committees in national meetings: 14 events, including 2 symposia, 4 workshops, 5 practical courses for professionals and graduate and post-graduated students and 3 competitions
- Reviewer in international peer-review indexed journals: Acta Biochimica et Biophysica Sinica (2010); The FASEB Journal (2010); Photodiagnosis and Photodynamic Therapy (2014); Food Chemistry (2015-2016); Letters in Applied Microbiology (2015-2016; 2018); Energies (2016); Molecules (2016-2018); Future Medicinal Chemistry (2017); Marine Drugs (2017-2018); LWT-Food Science and Technology (2017); International Journal of Molecular Sciences (2018); Frontiers in Microbiology (2018); The Veterinary Journal (2018); Materials (2018); Journal of Food Science and Technology (2018)
- Invited speaker and laboratory monitor. **BEST Aveiro Autumn Course**: The (Ir)Resistible World of Antibiotics. BEST Aveiro & Department of Biology, University of Aveiro (2014)
- Scientific monitor in **Academia de Verão™** for high school students. Laboratorial activity: "Bioluminescence: bacteria that glow in the dark". Department of Biology, University of Aveiro (2009)
- Responsible for laboratory management (laboratory of Biomedical Laboratory Science of School of Health, Polytechnic Institute of Porto, from 2005 to 2008)

### Participation in R&D projects

- 2015-2018: Member of the project "Advanced Analytical Chemistry for Life Sciences (ACCLifeSci)" under the ERASMUS+ programme, University of Białystok (Białystok, Poland), University CEU San Pablo (Madrid, Spain) and University of Aveiro (Aveiro, Portugal) <https://www.umb.edu.pl/aac>

- 2014-2015: Member of the Portuguese Mass Spectrometry Network (REDE/1504/REM/2005), a partnership among Portuguese institutes and universities (Universidade de Lisboa, Universidade Nova de Lisboa, Universidade de Aveiro, Universidade de Coimbra, Instituto de Patologia e Imunologia Molecular da Universidade do Porto, Instituto Nacional de Saúde Doutor Ricardo Jorge) and funded by the Portuguese National Foundation for Science and Technology (FCT)
- 10/02/2012 - 09-02-2014: Member of the project "Rapid methods for the testing of tetrapyrrolic derivatives as photosensitizers for photodynamic antimicrobial therapy", Programme - Cooperation Portugal/DAAD 2012 between University of Aveiro, Aveiro, Portugal and Humboldt University, Berlin, Germany, funded by FCT

**Patents** Almeida, Adelaide; Cavaleiro, José A; Rocha, João; Carvalho, Carla M; Costa, Liliana; Alves, Eliana; Cunha, Ângela; Tomé, João P; Faustino, Maria A; Neves, Maria G; Tomé, Augusto C; Lin, Zhi; Rainho, José P. Nanomagnet-porphyrin hybrid materials, process for their synthesis and their application in water disinfection, 2009. Type of process or technique: Project; Nature of the process or technique: Processual. Patent: Invention patent.n. 103828, "Nanomagnet-porphyrin hybrid materials, process for their synthesis and their application in water disinfection". 21 Sept. 2007 (Deposit); 24 Sept. 2009 (Concession).

- Honours and awards**
- Most popular poster of the 3<sup>rd</sup> year of the Degree in Biochemistry at IX Biochemistry Day, Department of Chemistry and Núcleo de Estudantes de Química, University of Aveiro, Aveiro, Portugal (2017)
  - Best poster of the 3<sup>rd</sup> year of the Degree in Biochemistry at VIII Biochemistry Day, Department of Chemistry and Núcleo de Estudantes de Química, University of Aveiro, Aveiro, Portugal (2016)
  - Postdoctoral grant from the Portuguese Foundation for Science and Technology (FCT) with the reference SFRH/BPD/109323/2015 (2016 - present)
  - ESP Supplement to the PhD Degree, European Society for Photobiology (2015)
  - Postdoctoral grant from the project REDE/1504/REM/2005 funded by FCT (2014 - 2015, 20 months)
  - Honorable mention at the 6<sup>th</sup> edition of the Green Project Awards Portugal, organized by GCI, Portuguese Environment Agency and Quercus, in the R&D category with the project "Photodynamic therapy in the inactivation of microorganisms in wastewater: an effective, low cost and low environmental impact technology" from the University of Aveiro, Aveiro, Portugal (2013)
  - Semi-finalist of START - National Entrepreneurship Award, sponsored by IAPMEI, Inovcapital and Nova School of Business and Economics of New University of Lisbon, which included a management course for startups, with the project "NanoDays" from the University of Aveiro (2009)
  - PhD grant from the FCT with the reference SFRH/BD/41806/2007 (2008 - 2012)

**Publications** 33 papers in indexed international scientific journals with referees and 4 publications in proceedings of scientific meetings. The detailed list can be accessed via the website <http://www.degois.pt/visualizador/curriculum.jsp?key=4727006163553863>

**Communications** 24 oral communications and 28 poster communications. The detailed list can be accessed via the website <http://www.degois.pt/visualizador/curriculum.jsp?key=4727006163553863>

- Relevant additional training**
- Short course in virgin olive oil sensory analysis. Instituto Superior de Agronomia, University of Lisbon, 16 - 18 March 2016, Lisbon, Portugal (12 hours)
  - Advanced course in Photobiological Sciences. 2010 ESP Photobiology School, 21 - 26 June 2010, Brixen, Italy (35 hours)
  - Entrepreneurship course for startups (arising from the prize awarded to the 20 semi-finalists of START - National Entrepreneurship Award 2009, sponsored by IAPMEI, Inovcapital and Nova School of Business and Economics of New University of Lisbon), 22 - 25 June and 6 - 9 July 2009, Lisbon, Portugal (32 hours)

**Professional/Scientific Association membership** Jun/2009 - Present: European Society for Photobiology, Member  
Jan/2018 - Present: Euro Fed Lipid, Member

**Other information** ORCID: [orcid.org/0000-0001-5396-6536](https://orcid.org/0000-0001-5396-6536)  
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Scopus ID: 23993562400  
Researchgate: [https://www.researchgate.net/profile/Eliana\\_Alves](https://www.researchgate.net/profile/Eliana_Alves)