

Ana Filipa da Silva Ferreira

📍 Rua 7 de Junho de 1759, nº15 1ºDrt, 2700-794 Amadora, Portugal

📞 +351 964357952

✉ anafilipasilvaferreira@hotmail.com



Portuguese Pharmaceutical Society, member number L-14777, professional certification number 20180

International Pharmaceutical Federation (FIP), member number 36623

Portuguese Association of Young Pharmacists (APJF), member number E16374

LinkedIn: <https://www.linkedin.com/in/ana-filipa-ferreira-b42aa655>

Research Gate: https://www.researchgate.net/profile/Ana_Ferreira35

ACADEMIC FORMATION

2021-2022 **Advanced Certificate in Project Management**
ESCP Business School

2020-2020 **Executive Education - Young Leaders in Pharma**
Lisbon School of Economics & Management (ISEG)

2012-2018 **PhD in Pharmaceutical Sciences (20 out of 20)**
Faculty of Health Sciences of University of Beira Interior, Covilhã, Portugal

2007-2012 **Integrated Master in Pharmaceutical Sciences (17 out of 20)**
Faculty of Health Sciences of University of Beira Interior, Covilhã, Portugal

PROFESSIONAL EXPERIENCE

2019-2020 - Maternity Leave Substitute Team Leader of Drug Substance Subgroup/Analytical Development Group at Hovione FarmaCiência, SA, Portugal.

2017-Now - Lead Analytical Scientist at Hovione FarmaCiência, SA, Portugal.

- *Expert responsible by the implementation and management of DMPK services in the Company - Implementation of the necessary facilities/procedures, Planning, Study management with Outsourced laboratories and Data Analysis;*
- *Analytical project manager of drug substance and drug product projects, leading all analytical aspects of projects;*
- *Provide efficient and accurate analytical support to Process Development and Manufacturing areas under cGMP regulations for a competitive CDMO*
- *Management of cross-functional teams from different sites to plan, allocate resources and delegate tasks;*
- *Primary contact with clients;*
- *Discussion of work proposals / out-of-scopes with customers;*
- *Solve project analytical problems and propose continuous improvements along all the project phases (development, production and validation);*
- *Authored numerous GMP documents such as Method Validation Protocols and Reports, Analytical Methods, Change Controls, Technical Guides and Standard Operating Procedures;*
- *Risk management / assessment experience (e.g. FMEA methodology);*
- *Approval of new Suppliers and Materials;*
- *Active participation in external audits, Client's visits and Health Authorities' inspections;*
- *Issues identification / escalation; complex problem solving and investigation of project deviations;*
- *Knowledge of aQbD and DoE approaches, including complex data processing and analysis;*
- *Experienced in cGMP analytical regulations and guidelines for supporting early phase through commercial products;*
- *Experience in preparing and reviewing of CMC sections of regulatory submissions (responses, INDs, etc.).*
- *Use of Empower, LIMS, MASQ, CDOC, Docstream and SAP;*
- *HSE area responsible (manage CAPAS, near misses);*
- *Mentoring of less experienced team members;*
- *Generation of out-of-the-box ideas to improve current processes;*
- *Work in innovative ideas to increase the portfolio of services to be available to our customers;*
- *Supervision of Master Students participating in international exchange programs;*

2016-2017 - Visiting PhD student/Researcher at Medical University of Lublin, Poland, under the supervision of the Professor Stanislaw Czuczwar and Professor Jarogniew Luszczki

- *Implementation of the isobolographic analysis methodology.*

2014-2017 - Teacher Assistant at University of Beira Interior, Covilhã, Portugal

- *Lecturing of theoretical and theoretical-practical classes of the Biological Evaluation in Drug Development Discipline;*
- *Collaboration in the laboratory classes of the Laboratory/Clinical rotations I and II Discipline;*
- *Collaboration in the evaluation of group works and practical classes of the Pharmacokinetics and Clinical Pharmacy Disciplines.*

2013-2018 - PhD student/Researcher at the Health Sciences Research Centre at the University of Beira Interior, Covilhã, and Centre for Neuroscience and Cell Biology at the University of Coimbra, Portugal. The work was titled “*Coadministration of antiepileptic drugs and P-glycoprotein inhibitors of flavonoid-type: a strategy to overcome the drug resistance in epilepsy*”, supervised by Professor Gilberto Alves and Professor Amílcar Falcão, and supported by a PhD Scholarship of the Foundation for Science and Technology

- *Development and validation of analytical techniques of high-pressure liquid chromatography to quantify drugs and/or metabolites in biological matrices according to FDA and EMA guidelines;*
- *Toxicological and in vitro pharmacokinetic studies (drug metabolism, metabolic profiling and drug interactions involving the cytochrome P450 system and P-glycoprotein) using several cellular models like HepaRG, MDCK, MDCK-MDR1 and N27 cell lines;*
- *Ex vivo pharmacokinetic studies using Ussing Chambers;*
- *In vivo characterization of the pharmacokinetics of drugs in rodents (mice and rats) following various routes of administration (oral, intraperitoneal, intravenous and intranasal routes); this kind of studies have been used to support the assessment of potential drug-drug or herb-drug.*

2012-2013 - PhD student/Researcher at Health Sciences Research Centre at the University of Beira Interior, Covilhã, Portugal, with a Research Fellowship supported by the University of Beira Interior and the Santander/Totta Bank, and under the supervision of Professor Gilberto Alves

- *Development and validation of analytical techniques of high-pressure liquid chromatography to quantify drugs and/or metabolites in biological matrices according to FDA and EMA guidelines.*

2012 - Internship at Community Pharmacy, Pharmacy Pedroso, Covilhã, Portugal

- *Promotion of the accomplishment of therapeutics and the rational use of medicines, dermocosmetic counseling;*
- *Stocks management and reception of medicines;*
- *Determination of biochemical tests like glycaemia, total cholesterol and blood pressure;*
- *Promotion of pharmacotherapeutic accomplishment using Dader Method.*

2012 - Internship at Hospital Pharmacy, Cova da Beira Hospital Centre, Covilhã, Portugal

- *Therapeutic drug monitoring;*
- *Preparation of parenteral nutrition and immunotherapy;*
- *Validation of the medical prescriptions and of the daily individual medication;*
- *Outpatient drug dispensing;*
- *Support to the hospital clinical team.*

2010-2012 - Master’s student/Researcher at Health Sciences Research Centre at the University of Beira Interior, Covilhã, Portugal. The work was titled “*In vitro evaluation of potential drug interactions with amiodarone*” and was supervised by Professor Gilberto Alves

- *Development and validation of analytical techniques of high-pressure liquid chromatography to quantify drugs and/or metabolites in biological matrices according to FDA and EMA guidelines;*
- *In vitro metabolic studies using the HepaRG cell line as human hepatic model.*

2010 - Volunteer internship at Pharmaceutical Industry, Atral Pharmaceutical Laboratories SA, Castanheira do Ribatejo, Portugal

- *Organization of the quality control dossiers.*

LIST OF PUBLICATIONS

Articles published in peer reviewed scientific journals

1. **Ferreira A.**, Rodrigues M., Meririnho S.; Fortuna, A, Falcão A., Alves G., 2019. Impact of silymarin, a flavonoid-type P-glycoprotein inhibitor, on the pharmacokinetics of carbamazepine, oxcarbazepine and phenytoin in rats. *Drug Chem Toxicol.* 25:1-12. doi: 10.1080/01480545.2019.1601736.
2. **Ferreira A.**, Santos A. O., Falcão A., Alves G., 2018. *In vitro* screening of dual flavonoid combinations for reversing P-glycoprotein-mediated multidrug resistance: Focus on antiepileptic drugs. *Food Chem Toxicol.* 111:84-93. doi: 10.1016/j.fct.2017.11.004;

3. **Ferreira A.**, Rodrigues M., Fortuna A., Falcão A., Alves G., 2018. Flavonoid compounds as reversing agents of the P-glycoprotein-mediated multidrug resistance: An *in vitro* evaluation with focus on antiepileptic drugs. *Food Res Int.* 103:110-120. doi: 10.1016/j.foodres.2017.10.010;
4. **Ferreira A.**, Rodrigues M., Fortuna A., Falcão A., Alves G., 2017. Influence of the combination of silymarin and (-)-epigallocatechin gallate, natural dietary flavonoids, on the pharmacokinetics of oxcarbazepine in rats. *Food Chem Toxicol.* 106: 446-454. doi: 10.1016/j.fct.2017.06.015;
5. **Ferreira A.**, Rodrigues, M., Falcão, A., Alves, G., 2016. A Rapid and Sensitive HPLC-DAD Assay to Quantify Lamotrigine, Phenytoin and Its Main Metabolite in Samples of Cultured HepaRG Cells. *J Chromatogr Sci.* 54, 1352-1358. doi:10.1093/chromsci/bmw088;
6. **Ferreira A.**, Rodrigues, M., Falcão, A., Alves, G., 2016. HPLC-DAD Method for the Quantification of Carbamazepine, Oxcarbazepine and their Active Metabolites in HepaRG Cell Culture Samples. *Chromatographia.* 79, 581-590. doi:10.1007/s10337-016-3063-7;
7. **Ferreira A.**, Rodrigues, M., Fortuna, A., Falcão, A., Alves, G., 2016. Huperzine A from *Huperzia serrata*: a review of its sources, chemistry, pharmacology and toxicology. *Phytochem Rev.* 15, 51-85. doi:10.1007/s11101-014-9384-y;
8. **Ferreira A.**, Pousinho, S., Fortuna, A., Falcão, A., Alves, G., 2015. Flavonoid compounds as reversal agents of the P-glycoprotein-mediated multidrug resistance: biology, chemistry and pharmacology. *Phytochem Rev.* 14, 233-272. doi:10.1007/s11101-014-9358-0;
9. **Ferreira A.**, Rodrigues, M., Oliveira, P., Francisco, J., Fortuna, A., Rosado, L., Rosado, P., Falcão, A., Alves, G., 2014. Liquid chromatographic assay based on microextraction by packed sorbent for therapeutic drug monitoring of carbamazepine, lamotrigine, oxcarbazepine, phenobarbital, phenytoin and the active metabolites carbamazepine-10,11-epoxide and licarbazepine. *J Chromatogr B Anal. Technol Biomed Life Sci.* 971, 20-29. doi:10.1016/j.jchromb.2014.09.010;
10. **Ferreira A.**, Rodrigues, M., Silvestre, S., Falcão, A., Alves, G., 2014. HepaRG cell line as an *in vitro* model for screening drug-drug interactions mediated by metabolic induction: amiodarone used as a model substance. *Toxicol Vitro.* 28, 1531-1535;
11. Rodrigues, M., Alves, G., **Ferreira A.**, Queiroz, J. & Falcão, A., 2013. A rapid HPLC method for the simultaneous determination of amiodarone and its major metabolite in rat plasma and tissues: a useful tool for pharmacokinetic studies. *J Chromatogr Sci.* 51, 361-70.

Abstracts published in national and international scientific journals

1. **Ferreira A.**, Rodrigues M., Fortuna A., Falcão A., Alves G., Flavonoids as potential reversing agents of the pharmacoresistance to antiepileptic drugs mediated by the P-glycoprotein, *in: Epilepsia*, 2016: 57 (Suppl. 2). pp. 6-225;
2. **Ferreira A.**, Rodrigues M., Rosado L., Rosado P., Falcão A., Alves G., A new MEPS/HPLC-DAD assay for therapeutic drug monitoring of phenobarbital, phenytoin, carbamazepine, lamotrigine, oxcarbazepine, and their active metabolites carbamazepine-10,11-epoxide and licarbazepine in human plasma, *in: Epilepsia*, 2014: 55 (Suppl. 2). pp. 4-246;
3. **Ferreira A.**, Rodrigues A., Campos G., Falcão A., Alves G., Evaluation of drug interactions with amiodarone using HepaRG cells as experimental model, *in: European Journal of Clinical Investigation*, 2013: 43 (Suppl. 1). pp. 3-96, 2013;
4. Rodrigues M., Alves G., Bicker J., **Ferreira A.**, Queiroz J., Falcão A., First HPLC-DAD method for the determination of amiodarone and desethylamiodarone in liver, kidney and lung tissues of rat, *in: Portuguese Journal of Pharmacy*. 2011, LII (5, Supl.): 176, 2011;
5. Rodrigues M., Alves G., Bicker J., **Ferreira A.**, Queiroz J., Falcão A., Simultaneous determination of amiodarone and desethylamiodarone by HPLC-DAD in plasma and heart tissue of rat, *in: Portuguese Journal of Pharmacy*. 2011, LII (5, Supl.): 177, 2011.

Oral presentations in national and international scientific meetings

1. **Filipa Ferreira**, Careers Week of UBIPharma (*Pharmaceutical Students Association of University of Beira Interior, Portugal*) - Pharmaceutical Industry; Online, 19th November 2020;
2. **Filipa Ferreira**, Ema Paulino, Gonçalo Pinto Uva; Webinar - Pharmaceutical Sciences in the Context of FIP - Pharmaceutical International Federation - Brazilian Academy of Pharmaceutical Sciences; Online, 16th November 2020;
3. **Ferreira A.**, Rodrigues M., Marques A., Falcão A., Alves G., The impact of silymarin and (-)-epigallocatechin gallate on the pharmacokinetics of oxcarbazepine in rats, *in: XLVII Annual Meeting of the Portuguese Society of Pharmacology and XXXVI Meeting of Clinical Pharmacology and XVII Toxicology Meeting*, Lisbon/Portugal, 5-7 February 2018;
4. **Ferreira A.**, Rodrigues M., Santos A.O., Fortuna A., Falcão A., Alves G., Individual and dual combined effects of several flavonoid compounds on the inhibition of the P-glycoprotein drug efflux transporter, *in: International Society of Neurochemistry and European Society of Neurochemistry (ISN-ESN) Meeting*, Paris/France, 20-24 August 2017;
5. **Ferreira A.**, Rodrigues M., Falcão A., Alves G., Effects of silymarin on the pharmacokinetics of carbamazepine, oxcarbazepine, phenytoin and their main metabolites in rats, *in: Young Scientist Satellite Conference*, Uppsala/Sweden, 19-21 May, 2017;
6. **Ferreira A.**, Santos A.O., Fortuna A., Falcão A., Alves G., *In vitro* synergistic effect of baicalein, (-)-epigallocatechin gallate, kaempferol, quercetin and silymarin in the inhibition of the P-glycoprotein, *in: XI Annual CICS-UBI Symposium 2016*, Health Sciences Research, University of Beira Interior (CICS-UBI), Covilhã/Portugal, 30 June-1 July, 2016;

7. **Gomês I., Ferreira A.,** Alves G., In vitro assessment of cytochrome p450 2c9 inhibition: tolbutamide as probe substrate and HepaRG cells as human hepatic model, in: XI Annual CICS-UBI Symposium 2016, Health Sciences Research, University of Beira Interior (CICS-UBI), Covilhã/Portugal, 30 June-1 July, 2016;
8. **Ferreira A.,** Rodrigues M., Fortuna A., Falcão A., Alves G., The phenomenon of P-glycoprotein-mediated pharmacoresistance to antiepileptic drugs - the flavonoid compounds as potential reversing agents, in: XLVI Annual Meeting of the Portuguese Society of Pharmacology and XXXIV Meeting of Clinical Pharmacology and XV Toxicology Meeting, Porto/Portugal, 4-6 February, 2016;
9. **Ferreira A.,** Rodrigues M., Fortuna A., Falcão A., Alves G., Several major antiepileptic drugs are inducers of P-glycoprotein, in: I International Congress in Health Sciences Research Towards Innovation and Entrepreneurship - Trends in Endocrinology and Neurosciences, Covilhã/Portugal, 26-28 November, 2015;
10. **Ferreira A.,** Rodrigues M., Fortuna A., Falcão A., Alves G., Flavonoid compounds as reversal agents of the P-glycoprotein-mediated resistance to antiepileptic drugs, in: I International Congress in Health Sciences Research Towards Innovation and Entrepreneurship - Trends in Endocrinology and Neurosciences, Covilhã/Portugal, 26-28 November, 2015;
11. **Ferreira A.,** Professional Pathways on Pharmaceutical Sciences - Research, UBIPharma Career Opportunities Day, Covilhã/Portugal, 2015;
12. **Ferreira A.,** Rodrigues M., Silvestre S., Falcão A., Alves G., HepaRG cells for screening drug-drug interactions mediated by metabolic induction: amiodarone used as a model substance, in: XLV Annual Meeting of the Portuguese Society of Pharmacology and XXXIII Meeting of Clinical Pharmacology and XIV Toxicology Meeting, Lisboa/Portugal, 5-6 February, 2015;
13. **Ferreira A.,** Rodrigues M., Rosado L., Rosado P., Falcão A., Alves G., A new MEPS/HPLC-DAD assay for therapeutic drug monitoring of phenobarbital, phenytoin, carbamazepine, lamotrigine, oxcarbazepine, and their active metabolites carbamazepine-10,11-epoxide and licarbazepine in human plasma, in: 11th European Congress on Epileptology, Stockholm/Sweden, 29 June-3 July, 2014;
14. **Ferreira A.,** Rodrigues M., Francisco J., Fortuna A., Rosado L., Rosado P., Falcão. A, Alves G., MEPS/HPLC-DAD method for the simultaneous quantification of several antiepileptic drugs and their active metabolites in human plasma, in: XLIV Annual Meeting of the Portuguese Society of Pharmacology and XXXII Meeting of Clinical Pharmacology and XIII Toxicology Meeting, Coimbra/Portugal, 5-7 February, 2014.

Poster presentations in national and international scientific meetings

1. **Ricardo Gonçalves, Lúcia Volta e Sousa, Ana Filipa Ferreira.** DoE as an Effective and Comprehensive tool for RPLC Method Robustness Evaluation, in: XXVI Encontro Nacional da SPQ, Porto, Portugal, 24-26 July, 2019;
2. **Lúcia Volta e Sousa, Ana Filipa Ferreira.** DoE as an Effective and Comprehensive tool for RPLC Method Robustness Evaluation, in: HPLC 2019 48TH International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, 16-20 June, 2019;
3. **Ferreira A., Rodrigues M.,** Santos A. O., Fortuna A., Falcão A., Alves G., Potential of baicalein, (-)-epigallocatechin gallate, kaempferol, quercetin and silymarin, and their dual combinations in reversing the P-glycoprotein-mediated antiepileptic drug resistance, in: 32nd International Epilepsy Congress, Barcelona/Spain, 2-6 September, 2017;
4. **Ferreira A.,** Rodrigues M., Falcão A., Alves G., Effects of the silymarin and (-)-epigallocatechin gallate on the pharmacokinetics of oxcarbazepine in rats, in: 6th FIP Pharmaceutical Sciences World Congress, Stockholm/Sweden, 21-24 May, 2017;
5. **Ferreira A.,** Luszczki J., Czuczwar S., Falcão A., Alves G., Isobolographic analysis of the neuro and hepatotoxicological profile resulting from the combination of the antiepileptic drugs carbamazepine, oxcarbazepine or phenytoin with silymarin, a flavonoid-type P-glycoprotein inhibitor, in: II International Congress in Health Sciences Research Towards Innovation and Entrepreneurship - Trends in Biotechnology, Covilhã/Portugal, 17-20 May, 2017;
6. **Ferreira A.,** Rodrigues M., Falcão A., Alves G., Effects of the silymarin, a P-glycoprotein inhibitor, on the pharmacokinetics of oxcarbazepine and its active metabolite licarbazepine, in: II International Congress in Health Sciences Research Towards Innovation and Entrepreneurship - Trends in Biotechnology, Covilhã/Portugal, 17-20 May, 2017;
7. **Ferreira A.,** Rodrigues M., Fortuna A., Falcão A., Alves G., Flavonoids as potential reversing agents of the pharmacoresistance to antiepileptic drugs mediated by the P-glycoprotein, in: 12th European Congress on Epileptology, Prague/Czech Republic, 11-15 September, 2016 (*Awarded as Best Poster Presentation*);
8. **Ferreira A.,** Santos A.O., Fortuna A., Falcão A., Alves G., In vitro synergistic effect of baicalein, (-)-epigallocatechin gallate, kaempferol, quercetin and silymarin in the inhibition of the P-glycoprotein, in: Ciência 2016 - Science and Technology in Portugal Meeting, Lisboa Congress Centre, Portugal, 4-6 July, 2016;
9. **Ferreira A.,** Rodrigues M., Campos G., Falcão A., Alves G., A new MEPS/HPLC-DAD assay for therapeutic drug monitoring of phenobarbital, phenytoin, carbamazepine, lamotrigine, oxcarbazepine, and their active metabolites carbamazepine-10,11-epoxide and licarbazepine in human plasma, in: 11th European Congress on Epileptology, Stockholm/Sweden, 29th June-3rd July, 2014 (*Awarded as Best Poster Presentation*);
10. **Ferreira A.,** Rodrigues M., Campos G., Falcão A., Alves G., Evaluation of drug interactions with amiodarone using HepaRG cells as experimental model, in: 47th Annual Meeting of the European Journal of Clinical Investigation, Albufeira/Portugal, 17-20 April, 2013;
11. **Rodrigues M.,** Canário C., Matias M., Abrantes J., **Ferreira A.,** Alves G., Falcão A., Herb-drug interaction: effect of Fucus vesiculosus extract on the bioavailability and disposition of amiodarone in rats, in: 6th European Congress of Pharmacology, Granada/Spain, 17-20 July, 2012;

12. Rodrigues M., Canário C., Matias M., Abrantes J., **Ferreira A.**, Alves G., Falcão A., Effects of Paullinia cupana (Guarana) seed extract on the systemic exposure of amiodarone in rats, in: 6th European Congress of Pharmacology, Granada/Spain, 17-20 July, 2012;
13. Rodrigues M., Alves G., Bicker J., **Ferreira A.**, Queiroz J., Falcão A., Fast HPLC-DAD method for the determination of amiodarone and desethylamiodarone in liver, kidney and lung tissues of rat, in: Ibero-American Congress of Pharmaceutical Sciences, Lisbon/Portugal, 21-23 June, 2011;
14. Rodrigues M., Alves G., Bicker J., **Ferreira A.**, Queiroz J., Falcão A., Simultaneous determination of amiodarone and desethylamiodarone by HPLC-DAD in plasma and heart tissue of rat, in: Ibero-American Congress of Pharmaceutical Sciences, Lisbon/Portugal, 21-23 June, 2011;
15. Rodrigues M., Alves G., Bicker J., **Ferreira A.**, Queiroz J., Falcão A., A simple procedure for the monitoring of amiodarone and desethylamiodarone by HPLC-DAD detection: application to clinical toxicology, in: Iberian Conference on Toxicology, Covilhã/Portugal, 10-12 March, 2011.

CO-SUPERVISION OF MASTER'S THESIS

- September 2015 to July, 2016 - Co-supervised together with Professor Gilberto Alves the master's thesis titled: *In vitro* assessment of cytochrome P450 2C9 inhibition: tolbutamide as probe substrate and HepaRG cells as human hepatic model.

AWARDS

- Travel Bursary awarded by the International Society of Neurochemistry for the *International Society of Neurochemistry and European Society of Neurochemistry (ISN-ESN) Meeting*, Paris/France, 20-24 August, 2017;
- Grant supported by the International Society of Neurochemistry (ISN) for the *ISN Advanced School "The Energetic Brain"*, Varennes-Jarcy/France, 16-20 August, 2017;
- Travel Scholarship awarded by the FIP Board of Pharmaceutical Sciences for the *6th FIP Pharmaceutical Sciences World Congress*, Stockholm/Sweden, 21-24 May 2017;
- Travel Scholarship awarded by the FIP Board of Pharmaceutical Sciences for the *Young Scientist Satellite Conference*, Uppsala/Sweden, 19-21 May 2017;
- Grant supported by the European Society for Animal Cell Technology for the *Animal Cell Technology course 2016* - 6th edition, Llafranc, Costa Brava/Spain, September 2016;
- Best Poster Presentation at the *12th European Congress on Epileptology*, Prague/Czech Republic, September 2016;
- Travel Bursary awarded by Travel Bursary Committee of the Congress for *12th European Congress on Epileptology*, Prague/Czech Republic, September 2016;
- Selected to the top 15 of the *Novartis Biotechnology Leadership Camp (BioCamp)*, Portugal, 2015;
- Best Poster Presentation at the *11th European Congress on Epileptology*, Stockholm/Sweden, September 2014;
- PhD Scholarship supported by the Foundation for Science and Technology, 2012;
- Research Fellowship supported by the University of Beira Interior and Santander/Totta Bank, 2012;
- Pharmaceutical Lusitana Society Prize awarded by the Portuguese Pharmaceutical Society, 2012;
- Award School by the University of Beira Interior, Graduates of the academic year 2011/2012;
- Scholarship Merit awarded by the University of Beira Interior, 2011.

CERTIFICATES

- Foundations of Management Specialization: Accounting; Finance for Managers; Marketing; Organizational Behaviour and Analysis of Business Problems, IESE Business School, December 2020;
- Project Management Foundation, Winning Scientific Management, November 2019;
- Regulatory framework workshop presented by Pieter Stolk, Utrecht University, Netherlands;
- Authorization of the Portuguese Directorate-General of Food and Veterinary Medicine (DGAV) to perform the function of designing procedures and projects, in accordance to the number 5, of the article number 31, of the Decree of law number 113/2013 of August 7, on the "Protection of animals used for scientific purposes";
- Animal Cell Technology course 2016 - 6th edition - European Society of Animal Cell Technology, Llafranc, Costa Brava/Spain;
- Clinical Investigator Certificate, Level 1, Training Programme in Pharmaceutical Medicine (according to the SYLLABUS CLIC of PHARMATRIN) - NOVA Medical School (Lisbon, Portugal) and UNAVE (Aveiro, Portugal);
- Laboratory Animal Science Course, Category C (FELASA) - Institute for Molecular and Cell Biology, University of Porto, Portugal;
- Practical Courses of Western Blot, Flow cytometry, Cell culture, Immunohistochemistry and Immunocytochemistry - Health Sciences Research Centre of University of Beira Interior (CICS-UBI), Covilhã/Portugal;
- Initial Pedagogical Training for Trainers - Comunilog, Portugal;
- Formation in Good Laboratory Practice (GLP-OECD) - HmL, Portugal.

LANGUAGES

- Portuguese (mother tongue);
- English, Level C1 (English Course, Level C1, University of Beira Interior, Portugal, and First Certificate Exam in English from Cambridge);
- Spanish, Level B1;
- German, Level A2 (German Course, Level A2, University of Beira Interior, Portugal).

SOCIAL AND ORGANISATIONAL SKILLS

- Chairperson of Liaisons of Young Pharmacists Group of the International Pharmaceutical Federation (YPG-FIP) 2022;
- Working Group on the creation of a Young Pharmacists Group in the Association of Pharmacists of the Portuguese-speaking Countries, 2021-Now;
- Working Group on the Access to Health Technologies and Innovation of the Portuguese Association of Young Pharmacists (APJF), 2021;
- Working Group on the Promotion of Pharmaceutical Scientists of the Young Pharmacists Group of the International Pharmaceutical Federation (YPG-FIP) 2021;
- GHWN Youth Hub member since 2019;
- Industrial Pharmacy Section of International Pharmaceutical Federation Associate ExCo Member, since 2019;
- Innovation Grant Coordinator of the Young Pharmacists Group of the International Pharmaceutical Federation (YPG-FIP) 2019-2021;
- Regulatory sciences and quality Liaison Special Interest Group Liaison of the Young Pharmacists Group of the International Pharmaceutical Federation (YPG-FIP) 2019-2020;
- Industrial Pharmacy Section Liaison of the Young Pharmacists Group of the International Pharmaceutical Federation (YPG-FIP) 2017-2018;
- Co-chair in the “Drug Delivery & Targeting Sciences” session at the 6th FIP Pharmaceutical *Sciences World Congress*, Stockholm/ Sweden, 21-24 May 2017;
- Member of the organization of *II International Congress in Health Sciences Research towards innovation and entrepreneurship, Trends in Biotechnology for Biomedical Application*, Covilhã/Portugal, 17-20 May 2017;
- Member of CAD-CICS-UBI - Commission of PhD students of the Health Sciences Research Centre of the University of Beira Interior (CICS-UBI), 2016-2017;
- Evaluator-student of the External Evaluation Commission (CAE) of the Education Assessment and Accreditation Portuguese Agency (A3ES), 2016;
- President of General Assembly of AJAS - Youth Association for Solidarity Action -, an association whose purpose is to help all the community, but particularly those students in need, January 2016 to January 2017;
- Member of the Scientific Commission of the *I Scientific Annual Congress of UBIPharma - Dermatology and Dermocosmetics - the flower of skin: care and reverse*, October 2015;
- Volunteer member of the Re-food project - an ecological eco-effort, 100% voluntary, created to and by citizens at a micro-local level, aiming to end hunger in urban districts. At the same time, it seeks to end the waste of prepared food by strengthening local community ties, 2015-2017;
- President of the Direction of AJAS, January 2014 to January 2016;
- Member of the UBIPharma Alumni - Pharmaceutical Students Association, University of Beira Interior, Portugal, 2014 to 2015;
- Member of the Senate of the University of Beira Interior, Portugal, 2013 to 2015;
- Participation in the campaigns of the Food Bank against Hunger, since 2013;
- Volunteer member of AJAS, 2012-2017;
- Member of the organization of the *Congress Oncology - From prevention to healing: a path multidisciplinary* held in the Great Hall of the Faculty of Health Sciences - University of Beira Interior, 5 and 6 January 2012;
- Student representative of the fifth grade of the Integrated Master Course in Pharmaceutical Sciences of University of Beira Interior, 2012;
- Member of the Pedagogical Section of the UBIPharma - Pharmaceutical Students Association, University of Beira Interior, Portugal, 2011.