



PEDRO LEARDIN SILVEIRA

Medicinal Chemist

PhD Student of University of Lorraine

My Contact

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France

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<https://orcid.org/0000-0001-9474-4083>

Professional Habilities

- Project management
- Chemical and Physics Laboratory
- People management in teamwork
- Use of digital platforms and Office package

Personal Habilities

- Organized
- Decision making
- Motivated
- Communication
- Multi-tasking

Languages

- Mother tongue: Portuguese
- English (TOEFL IBT - Level B2)
- French (Univ. Lorraine - B1)
- Italian (B2)
- Spanish (B1)

Achievements

2018 Highlight of session in scientific

2019 exhibition at university
(UFCSPA- BRAZIL)

Presentations

2025 Nanoliposome transcytosis modeling
at the II International Conference on
Biomaterials and Biofabrication
(Stratford,CT,USA).

Publication

**Polymeric nanoparticles containing babassu oil:
A proposed drug delivery system for controlled
release of hydrophilic compounds.**

July 2023

Journal Chemistry and Physics of Lipids

<https://doi.org/10.1016/j.chemphyslip.2023.105304>

Education Background

Graduate in Medicinal Chemistry

Federal University of Health Sciences of Porto Alegre (UFCSPA, Brazil).

Completed in March 2022 - Final Score: GPA 7.9

Description:

- Development of new medicines for human use, isolation of new medicinal agents from natural sources, the design and synthesis of new drugs, and understanding the cause of diseases at the molecular level.

Master's BioPham - Pharmaceutical Material's Science

ERASMUS European Master programme

Pisa (Italy), Barcelona (Spain), Lille (France), Katowice (Poland).

Completed - September 2024

Final Score (C- Good (ECTS Scale) ; Thesis Semester: A - Excellent))

- Interface between materials science and physics/chemistry of materials and pharmaceutical sciences.

PhD in Biomaterials

University of Lorraine, France - October 2024 - 2027 (Expected)

Title: *New Generation of Nanoliposome as Drug Delivery Vectors against ageing.*

- Development of biomimetic nanoliposomes from natural lecithin for targeted brain delivery and ageing-related neuroprotection.
- Integration of GelMA-based 3D microfluidic models to study neuronal response and transport efficiency.
- Evaluation of functionalized vectors with or without brain-active drugs on primary neuronal cultures.

Professional Experience

Chemistry Laboratory Technician: Stability of Drugs and Cosmetics

Hertz Pharmaceutical Industry, Porto Alegre, Brazil

16/08/2021 - 23/05/2022

Key responsibilities:

- Support chemists and chemical engineers in researching, experimenting, and developing products and chemical processes, including executing experiments, analyzing results, conducting stability and photostability studies, and providing training on operating procedures for various equipment and techniques.

Research Experience

Internship in Therapeutic nanocrystal formulations and characterization for better stability and efficacy (Master Thesis)

Unité des Technologies Chimiques et Biologiques pour la Santé
(UTCBS), Université Paris Cité, Paris, France

05/02/2024 - 05/08/2024 - Score: EXCELLENT (5/5)

- Project consists in the development of therapeutic nanocrystals of different APIs to obtain new formulations with improved stabilized crystalline nanosuspensions and better therapeutic efficacy. The ratio of polymer/API and the type of the polymers are distinct, with the aim to study the stability, drug release, influence of the main chains of the polymers and influence of it in the cited parameters. After those experiments done, it's expected to create pilot experiment in vivo for proving of concept.
- SMARTS UP Grant was awarded to perform this project.



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Research Experience

Internship in polymorphism characterization of organic molecule (Curricular short internship)

Universitat Politècnica de Catalunya, Barcelona, Spain

Department of Physics, Characterization of Materials (GCM)

01/06/2023 – 31/07/2023

Key responsibilities:

- Performed comprehensive analyses of organic molecules polymorphism utilizing sophisticated laboratory tools such as Differential Scanning Calorimetry (DSC), High-Pressure Differential Thermal Analysis (HP-DTA), X-ray Powder, and Thermogravimetric Analysis (TGA), aiding in the generation of research reports and presentations, and actively participating in scholarly discussions and knowledge exchange among peers and faculty.

Undergraduate research

Federal University of Health Sciences of Porto Alegre, Brazil(UFCSPA).

11/2019 - 01/2021

- Subject: Development, optimization, characterization, and evaluation of nanoparticles for drug production.
- Used all laboratory equipment used in the professional area plus DLS (dynamic light scattering) and Zeta Potential Instrument.

Digital and Instrumental Skills

- Good command in office suite, I know how to create letters, paper sheets in word, presentations in powerpoint and process information with office excel creating graphics and other documents.
- Instruments utilized during the undergraduate, master's and PhD experience: SEM, TEM, RAMAN, FTIR, HPLC, GC, DSC, HP-DTA, XRD, TGA, Rheometer, Optical Microscope, Airyscan and Spinning Disk Microscopy.
- Data processor programs, acquired during college and industry employee.
- Molecular visualization software (Chimera,PyMol) acquired during classes of computational chemistry in college.
- Python and MATLAB acquired during classes in Master's (basic level) and course of the last one cited at University of Lorraine.

Communicational Skills

- Very good communication skills with constructive ideas in scientific knowledge.
- Good communication skills gained through my experience as chemistry laboratory technician in an industry and in college. In college I was part of a Science Podcast, so I acquired skills how to communicate with scientific knowledge.
- I can work with other people and compare myself daily with everyone. I like to meet new people, exchange ideas, and talk about everything. Having had experience in the laboratory for chemical analysis I know what it means to ask for advice or help to other people.
- Team player (college basketball league, so I acquired communication and team skills during that time)

Laboratory Training

- Training Certificate (2h55) - Biological risk, prevention, chemical risk and fire risk - Unité de Technologies Chimiques et Biologiques pour la Santé (Paris)