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Education

Doctorate in Science and Technology

Universidad Nacional de Quilmes

Buenos Aires, AR

Apr 2017 - (exp.) 2023

- Mycology - Bioinformatics - Nanotechnology - Molecular Biology.
- Azole Resistance Mechanisms in clinical and agro-industrial environment.
- Phylogeny - *Aspergillus spp.*, *Exophiala spp.*, *Scedosporium spp.*

Bachelor of Biotechnology

Universidad Nacional de Quilmes

Buenos Aires, AR

Aug 2010 - Dec 2016

- Orientation in Genetic Engineering.
- Nitrogen fixing symbiosis.
- Actinorrhizal symbiosis - *Frankia spp.*

Skills

Scientific Genetic transformation of microorganisms, Microbiology, Molecular Biology, Data Analysis, Genetic Analysis, Nanotechnology, Bioinformatics, Mycology, Fluorescence microscopy.

Miscellaneous R (tidyverse, ggplot2), \LaTeX (Overleaf/R Markdown/Quarto), Microsoft Office/Google docs, Google Apps Script, Git/Github, Bash.

Soft Skills Strategic and analytical thinking, ability to adapt to the environment and change, teamwork, communication and presentation skills, ability to work under pressure with minimal or no supervision, handling of ambiguity and uncertainty.

Professional Experience

Mycology Research and Development Laboratory (LIDeMi); (IMPAM, CONICET - UBA)

Buenos Aires, Argentina.

PhD Student - CONICET

Apr 2017 - Current

- Molecular identification of fungal cryptospecies.
- Anti-fungal susceptibility studies based on international standardized guidelines (CLSI & EUCAST).
- Molecular characterization of azole's resistance mechanisms in *Aspergillus spp.*
- Build-up and curation of clinical fungal strains database.
- Phylogeny of filamentous fungi.
- Studies on Antarctic animals' fungal flora.
- Development of polymeric micelles capable of storing and sustainably releasing voriconazole in the lung.
- **Technical skills:** PCR, sequencing, bio-informatics, phylogeny, molecular biology techniques, microbiology, data analysis, micro y nano particles formulation.
- **Soft Skills:** Teamwork, communication skills, written and oral results' presentation, project management, organization of the work environment, planning, people training.

Biological Interactions Research Laboratory (LIIB); Universidad Nacional De Quilmes

Buenos Aires, Argentina.

ESV scholarship

Sep 2013 - Aug 2015

- Study of the native actinorrhizal symbiosis that establishes nitrogen-fixing root nodules between *Frankia spp.* and *Discaria trinervis'* roots.
- Genetic transformation of roots by *A. rhizogenes*.
- **Technical skills:** Molecular biology techniques, microbiology, fluorescence microscopy, data analysis.
- **Soft Skills:** Teamwork, communication skills, written and oral results' presentation.

Projects

Studies on the diversity of fungal species from clinical samples of animals of the Antarctic fauna: potential impact on human health

Carlini station, Antártida Argentina

Dirección Nacional del Antártico (DNA) - Instituto Antártico Argentino (IAA)

Jan 2019 - Mar 2019

- The aim was to contribute to the knowledge of the epidemiology of yeast-like and filamentous fungi isolated from different biological samples of Antarctic animals. Isolates were characterized by genomic sequencing.
- **Technical skills:** PCR, sequencing, bioinformatics, data analysis.
- **Soft Skills:** Teamwork, critical thinking, project organization and management, planning, development of written reports.

Implementation and maintenance of the institute's website

Buenos Aires, AR

Instituto De Investigaciones En Microbiología Y Parasitología Médica (IMPAM)

Jun 2019 - Current

- Design and maintenance of the institute's website. Data collection using Google Forms and development of the institute's staff database.
- **Technical skills:** Google Forms, Google Docs, HTML, WordPress.
- **Soft Skills:** Teamwork, critical thinking, project organization and management.

Awards & Distinctions

Editor's Pick Distinction of Journal Antimicrobial Agents and Chemotherapy to the publication "A Novel Combination of CYP51A Mutations Confers Pan-Azole Resistance in *Aspergillus fumigatus*". EEUU 2020 Best Research Work - XVI INFOCUS 2018 Awarded at **VI Versión Reconocimiento a La Excelencia Académica e Investigación** of the Instituto Científico Pfizer de Colombia (ICPC) Bogota, Colombia 2019 Best Basic Research Work Awarded at 16th INFOCUS. Cali, Colombia 2018 Iberoamerican Santander Río Scholarship Academic merit-based scholarship to assist as an international student to the University of Málaga, Spain. Awarded by Santander Río Bank Bs.As., Argentina 2015 Initiation to Research - ESV Academic merit-based scholarship awarded by Consejo Interuniversitario Nacional (CIN) Bs.As., Argentina 2014 Encouragement to Scientific Vocations (ESV) Academic merit-based scholarship awarded by Consejo Interuniversitario Nacional (CIN) Bs.As., Argentina 2013

Publications

SCIENTIFIC ARTICLES

BOOK CHAPTERS

Languages

English Bilingual

Spanish Native