

CV Profile

1 *Luciana Gabriela Ruiz Rodríguez*

Research interests

Microbiology – Food Fermentation – Biotechnological potential of vegetal resources – Molecular Biology – Interdisciplinary research

I have extensive experience in Microbiology and Biotechnology, with 7 years of experience in research tasks design and execution. I have worked in the areas of biotechnology and food technology and, recently, phytomedicine. Throughout my career, I have acquired knowledge and skills in: general microbiology techniques and molecular techniques for the isolation and identification and typing of microorganisms; basic bioinformatics analysis; enzymatic activity assays; management of laboratory-scale fermenters and basic downstream process techniques; chromatographic techniques (HPLC, GC) conventional and coupled to mass spectrometry (HPLC-MS; GC-MS); search, selection, and analysis of information in biological databases; statistical analysis of data and results interpretation. Additionally, I gained experience in the preparation and characterization of plant extracts and the evaluation of their antioxidant and antimicrobial activities against multi-resistant human pathogens. One of my expectations for professional growth is to increase my experience in the area of molecular biology.

Some of my strengths are **critical thinking**, **perseverance**, and being **proactive** and **positive**. I am a person with a good predisposition and ability to integrate into **multidisciplinary work teams** and with a strong interest in **effective communication** as an enhancer of **organizational development** and **problem solving**.

Education

PhD: **PhD in Biological Sciences**. Faculty of Biochemistry, Chemistry, and Pharmacy (FBQyF). National University of Tucumán (UNT), Argentina (**18/12/2014- 23/03/2018**)

Undergraduate Degree: **Bachelor in Biotechnology** (5 years programme. Graduated with honors). FBQyF. UNT, Argentina (**29/03/2006- 16/05/2012**)

Sector of activity

Biotechnology and Foodtechnology

Experience

RESEARCH EXPERIENCE

2018-present: Postdoctoral Researcher. “Phytocosmetics obtained from floral extracts of Argentine medicinal plants for the treatment of inflammatory and infectious processes”. Institute of Bioprospecting and Plant Physiology (INBIOFIV) - National Council for Scientific and Technical Research (CONICET)-UNT. Argentina. (**29 months**)

2013-2018: PhD Student Researcher. “Lactic bacteria present in regional fruits. Production of industrially interesting metabolites”. Reference Center for Lactobacilli (CERELA)-CONICET. Argentina. (**60 months**)

2017: Research Internship. Institute for Sensory Food Research. Faculty of Health Sciences-National University of Salta. Argentina. (**0.25 months**)

2014: Research Internship. "Exploring the microbial diversity of lactic acid bacteria and acetic acid bacteria present in fruits in Northern Argentina for the production of health-promoter or industrially relevant metabolites". Laboratory of Industrial Microbiology and Food Biotechnology-Vrije Universiteit Brussel. Brussels, Belgium. **(2 months)**

2011-2013: Undergraduate Student Researcher. "Molecular identification of lactic acid bacteria isolated from seeds and flours of quinoa and amaranth". CERELA-CONICET. Argentina. **(7 months)**

2012. Research Internship. Chair of Elements of Organic and Biological Chemistry-Faculty of Natural Sciences and Institute Miguel Lillo (FCN-IML)-UNT. Tucumán, Argentina. **(3 months)**

2009-2011: Scientific and Technical Training for Students. "Reproductive biology of amputarids and synthesis of biomaterials for medical and dental application". Integral Centre for Electron Microscopy-FBQyF-UNT-INSIBIO-CONICET. Tucumán, Argentina. **(21 months)**

TEACHING EXPERIENCE

2020: Professor in postgraduate courses.

2019-present: Participant in the Human Resources Training Program-Graduate Area. Chair of Organic and Biological Chemistry-FCN-IML-UNT. Argentina. **(13 months)**

2017-2018: Visiting Professor. Course: *Veterinary Microbiology*. Faculty of Agronomy and Zootechnics-UNT. Argentina.

2008. Ad-honorem Teaching Collaborator. Course: *Physics II*, FBQyF-UNT. Argentina **(4 months)**

OTHER EXPERIENCE

2019-2020: Peer reviewer. *Journal of Applied Microbiology*, e-ISSN: 1365-2672.

2019-present: Member of the editorial committee of the journal *Mask'ay* ISSN 2683-8176 of the INBIOFIV. Argentina. **(13 months)**

2019-present: Small-scale craft beer production. "Cerveza 4 Brujas". Tucumán, Argentina.

2020: Voluntary Event Organizer. International science festival "**Pint of Science**". Tucumán, Argentina.

2018-2019: Participant in the National Campaign "Add honey to your Life". Secretariat of Agro Industries of the Nation. Tucumán, Argentina.

2016: Undergraduate thesis training tutor. "Functional properties of lactic acid bacteria isolated from fruits". Advisor: Dr. Fernanda Mozzi. Student: Florencia Mohamed. Bachelor in Biotechnology. FBQyF. UNT, Argentina **(6 months)**

2013: Collaborator of the Organizing Committee of the IV International Symposium on Lactic Bacteria. CERELA-CONICET. Tucuman, Argentina

Contact information

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