

CV Profile (max. 2 pages length)

1 *Leandro Arturo Sánchez*

Research interests

Dr. Leandro Sánchez is currently Associate Researcher at PROIMI-CONICET. He obtained a Bachelor's Degree in Biotechnology at the Faculty of Biochemistry, Chemistry and Pharmacy of the University of Tucumán in 2005 and then obtained a Doctorate in Biological Sciences in 2010. In the years 2011-2013 he carried out his post-doctorate with a DAAD-scholarship at the Technical University of Berlin, Faculty of Environmental Microbiology.

Dr. Sánchez has been a CONICET researcher at PROIMI since 2014, working on the topic: Search and isolation of natural antimicrobials produced by microorganisms, to be used in the design, production and formulation of functional biopesticides in order to be applied in the biological treatment of microbial pests in agronomic crops of regional importance, mainly soybean, citrus and sugar cane.

Research interest: Novel antimicrobial discovery, enzymes and antibiotics. Bioprocesses. Microbial fermentations. Downstream processing for purification of molecules. PAHs degradation. Chromatography. LC-MS and NMR for structural elucidation. Microbiology, Molecular Biology, Formulations of bio-products and applications in regional crops.

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- Researchgate Profile: https://www.researchgate.net/profile/Leandro_Sanchez
- LinkedIn: <https://www.linkedin.com/in/leandrosanchezz/>
- GoggleScholar: https://scholar.google.com/citations?user=1EqQV_cAAAAJ&hl=es

Education

2005 – 2010. PhD in Biological Sciences. National University of Tucumán, Argentina. Thesis Title: "Isolation and Characterization of new bio-molecules produced by extremophiles microorganisms (extremocins)". Graduated: 10 August, 2010. Mark obtained: 10 (1-10 scale).

2000 – 2005. Bachelor of Biotechnology. (Majors: Biological Sciences). National University of Tucumán, Argentina. Graduated: May, 2005. Average of the marks obtained: 8.3 (1-10 scale).

Experience

RESEARCH INTERNSHIPS / FELLOWSHIPS

-04/2010 – 06/2010. PhD Internship. Technische Universität Berlin, Germany. Alexander Von Humboldt Foundation Project, Germany.

-02/2011 – 04/2011. Postdoctoral Internship. Antarctic Campaign. Puerto Deseado Vessel. Antarctic.

-06/2011 - 09/2011. Postdoctoral Internship. Technische Universität Berlin, Germany. Alexander von Humboldt Foundation Project, Germany.

-02/2012 - 05/2012. Postdoctoral Fellow. Technische Universität Berlin, Germany. Funding: Deutscher Akademischer Austausch Dienst (DAAD). WAP-DAAD grant.

-04/2011 – 04/2013. Posdoctoral Fellow. CONICET. Planta Piloto de Procesos Industriales Microbiológicos (PROIMI), Argentina.

-07/2013 - 09/2013. Postdoctoral Fellowship. Technische Universität Berlin, Germany. Funding: Deutscher Akademischer Austausch Dienst (DAAD). WAP-DAAD grant.

-04/2019 – 07/2019. Postdoctoral Fellowship. Technische Universität Berlin, Germany. Funding: Deutscher Akademischer Austausch Dienst (DAAD). Scientist exchange Grant.

PUBLICATIONS

- 2009. Cold-Adapted Microorganisms as a source of new antimicrobials. Sánchez LA, Gómez FF, Delgado OD. (2009). *Extremophiles*, Springer 13:1:111-120
- 2010. Production, purification and characterization of Serraticin A, a novel cold-active antimicrobial produced by *Serratia proteamaculans* 136. Sánchez LA, Hedstrom M, Delgado M, Delgado OD. *Journal of Applied Microbiology*, 109 (3):936-45.
- 2011. Lactic acid bacteria isolated from apples are able to catabolise arginine. Savino MJ, Sánchez LA, Saguir FM, Manca de Nadra MC. *World Journal of Microbiology and Biotechnology*, 28 (3):1003-1012.
- 2012. Indigenous PAH-Degrading Bacteria from oil-polluted sediments in Caleta Cordova, Patagonia Argentina. Isaac P., Sánchez LA, Bourguignon N, Cabral ME, Ferrero MA. *International Biodeterioration & Biodegradation*, 82: 207-2014.
- 2013. Andrimid production at low temperature by a psychrotolerant *Serratia proteamaculans* strain. Sánchez LA, Gonzalez Sierra M, Delgado OD. *World Journal of Microbiology and Biotechnology*, 29:1773-1781.
- 2014. Gluconic acid produced by *Gluconacetobacter diazotrophicus* Pal5 possesses antimicrobial properties. Nieto-Peñalver CG, Savino MJ, Bertini E, Sánchez LA; Castellanos de Figueroa L. *Research in Microbiology* 165:7:549-558.
- 2014. Isolation of previously uncultured members of the *Leptothrix Sphaerotilus* group from Tierra del Fuego Wetlands. Schmidt B, Sánchez LA, Krebs G, Ferrero MA, Siñeriz F, Szwed U. *FEMS Microbial Ecology*. 90:2:434-466.
- 2015. *Pseudomonas yamanorum* sp. nov., a new psychrotolerant bacterium isolated from Sub-Antarctic environments (Tierra del Fuego, Ushuaia). Arnau VG, Sánchez LA, Delgado OD. *International Journal of Systematic and Evolutionary Microbiology*. 65:2:424-431
- 2015. Improved PAHs removal performance by a defined bacterial consortium of indigenous *Pseudomonas* and *Actinobacteria* from Patagonia, Argentina. Isaac P, Martínez FL, Bourguignon N, Sánchez LA, Ferrero MA. *International Biodeterioration & Biodegradation*. 101:23-31
- 2016. Novel sources of antimicrobials from pristine and poorly explored environments. The Patagonian microbiota case. Arnau, G.; Danilovich, M.; Sánchez, LA.; Acosta, F.; Delgado, O. In: *Biology and Biotechnology of Patagonian Microorganisms*. Eds: Olivera N, Lidkind D, Donati E. Part II, 127-146. Springer.
- 2018. Antarctic bioprospecting: In pursuit of microorganisms producing new antimicrobials and enzymes. Danilovich ME, Sánchez LA, Acosta F, Delgado OD. *Polar Biology* 41(7), 1417–1433.
- 2019. PAH removal by simultaneous and sequential inoculation of *Pseudomonas monteilii* P26 and *Gordonia* sp. H19 in the presence of biostimulants. Juárez Tomás MS, Carrasco MG, Lobo CB, Alessandrello MJ, Sánchez LA, Ferrero MA. *International Biodeterioration & Biodegradation* 144: 104752.
- 2019. Effectiveness of the *Zea mays*-*Streptomyces* association for the phytoremediation of petroleum hydrocarbons impacted soils. Baoune H, Aparicio JD, Acuña A, Hadj-khelil AOE, Sánchez LA, Polti MA, Alvarez A. *Ecotoxicology and Environmental Safety*. 184: 109591.
- 2019. Isolation of an Antarctic *Burkholderia gladioli* strain producing antimicrobial compounds and its potential as biocontrol agent against phytopathogens. Sarli AD, Sánchez LA, Acosta F, Delgado (Under review).

Contact information

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