







Nicolás Luna Niño

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 Nicolás Luna Niño |  Nicolás Luna Niño |  Nicolás Luna Niño

PERSONAL PORFILE AND RESEARCH INTERESTS

Biologist and Master in Natural Sciences with a passion for the world of microbial communities and the use of bioinformatics as a tool for researching the biological, molecular and evolutionary features of microorganisms of public health and biotechnological interest.

FORMAL EDUCATION

August 2021 -
May 2025

Universidad del Rosario | Colombia
Master of Science (M.Sc.) in Natural Sciences

January 2017 -
October 2021

Universidad del Rosario | Colombia
Bachelor of Science (B.Sc.) in Biology |
Disciplinary mention in Health, Environment and Society, and Evolution and Molecular Biology (*honourable mention*)

Courses and certificates

October 2024 -
November 2024

CODERHOUSE | Argentina

Web course in Fundamentals of Artificial Intelligence

September 2024 -
December 2024

CODERHOUSE | Argentina

Web course in Data Analytics to collect, transform and visualise several datasets

September 2023 -
October 2023

Latin American Biotechnology Center (CABBBIO) | Brazil, Argentina, Uruguay and Colombia

Short web course in Recombinant Protein Expression Platforms Applied to the Study of Animal Venoms

RESEARCH AND WORK EXPERIENCE

July 2021 -
February 2024

Centre for Research in Microbiology and Biotechnology at the Universidad del Rosario (CIMBIUR)
Research Assistant

- Analysis of Illumina and Oxford Nanopore sequencing data
- Development of metagenomic, genomic, and phylogenomic analysis

- Support for the construction, validation, and publication of bioinformatic analysis protocols

November 2023 -
December 2023

Universidad del Rosario

Course on the identification and molecular characterization of pathogens of public health concern

Teaching the virus biology, ecology and evolution module

RELEVANT SKILLS

- **Molecular biology techniques:**

Knowledge and skills in the extraction, quantification and visualisation of nucleic acids from different biological samples, molecular marker amplifications and genotyping through PCR. Experience in sequencing with Oxford Nanopore technology.

- **Data analysis techniques:**

Experience in handling and analysing complex datasets (genetic, genomic and metagenomic) to study the ecology and evolution of organisms using programming languages and artificial intelligence techniques. Skilled in georeferencing with ArcGIS, QGIS, and RStudio. Proficient in using statistical tools for modelling, visualisation, and data evaluation.

AWARD AND RECONIGNITION

October 2023

University of Oslo - Universidad del Rosario

Master's Mobility Scholarship by BigTree

October 2021

Universidad del Rosario

Undergraduate thesis with honours

February 2021

Universidad del Rosario

Academic Merit Recognition 2021-I.

The second highest average in 2020

PUBLICATIONS

2024

- **Luna, N.**, Páez-Triana, L., Ramírez, A.L. *et al.* ***Microbial community dynamics in blood, faeces and oral secretions of neotropical bats in Casanare, Colombia.*** *Sci Rep* 14, 25808 (2024). <https://doi.org/10.1038/s41598-024-77090-6>

2023

- **Luna, N.**, Muñoz, M., Castillo-Castañeda, A., Hernandez, C., Urbano, P., Shaban, M., Paniz-Mondolfi, A., & Ramírez, J. D. (2023). ***Characterizing the blood microbiota of omnivorous and frugivorous bats (Chiroptera: Phyllostomidae) in Casanare, eastern Colombia.*** *PeerJ*, 11, e15169. <https://doi.org/10.7717/peerj.15169>
- **Luna, N.**, Herrera, G., Muñoz, M., Sánchez-Herrera, M., Brown, A., Khazan, E., Pardo-Díaz, C., Ramírez, J. D., & Salazar, C. (2023). ***Geography shapes the microbial community in***

Heliconius butterflies. FEMS Microbiology Ecology, 99(4).
<https://doi.org/10.1093/femsec/fiad0289>

- **Luna, N.**, Muñoz, M., Bonilla-Aldana, D. K., Patiño, L. H., Kasminskaya, Y., Paniz-Mondolfi, A., & Ramírez, J. D. (2023). ***Monkeypox virus (MPXV) genomics: A mutational and phylogenomic analyses of B.1 lineages.*** Travel Medicine and Infectious Disease, 52, 102551. <https://doi.org/10.1016/j.tmaid.2023.102551>

2022

- **Luna, N.**, Ramírez, A. L., Muñoz, M., Ballesteros, N., Patiño, L. H., Castañeda, S. A., Bonilla-Aldana, D. K., Paniz-Mondolfi, A., & Ramírez, J. D. (2022). ***Phylogenomic analysis of the monkeypox virus (MPXV) 2022 outbreak: Emergence of a novel viral lineage?*** Travel Medicine and Infectious Disease, 49, 102402. <https://doi.org/10.1016/j.tmaid.2022.102402>
- **Luna, N.**, Muñoz, M., Ramírez, A. L., Patiño, L. H., Castañeda, S. A., Ballesteros, N., & Ramírez, J. D. (2022). Genomic ***Diversity of SARS-CoV-2 Omicron Variant in South American Countries.*** Viruses, 14(6), 1234. <https://doi.org/10.3390/v14061234>

Publications as Co-author are found in Pubmed porfile

(<https://www.ncbi.nlm.nih.gov/myncbi/nicolas.luna.1/bibliography/public/>)