Andrea Martínez Cuevas

Biologist | Biotechnologist

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PROFESSIONAL OBJETIVE

Biologist specialized in biotechnology, with expertise in laboratory techniques, molecular biology, and data analysis. I have experience in cell culture, advanced laboratory techniques such as gene editing with CRISPR/Cas9, bioinformatics analysis, and sequencing technologies. My goal is to apply my knowledge in molecular biology, biotechnology, and data analysis to develop innovative solutions in diagnostics, advanced therapies, and biomedical research. I am motivated to contribute to scientific advancements through process optimization, the development of new experimental approaches, and the application of bioinformatics tools to improve health and quality of life.

EDUCATION

Postgraduate in Biotechnology
University of Granada (2023-2024)

Bachelor's Degree in Biology
University of Granada (2019-2023)

High School Diploma
I.E.S José de Mora (2017-2019)

SKILLS

Soft Skills

- **Quick learner** of new technologies and scientific methodologies.
- **Effective teamwork** in multidisciplinary and scientific projects.
- **Strong communication skills** for presenting results and scientific dissemination.
- **Adaptability** to work in multidisciplinary environments and with emerging technologies.
- **Project management abilities** with a strong capacity to handle multiple tasks simultaneously.

Hard Skills

- **Laboratory Techniques:** PCR, qPCR, DNA sequencing, electrophoresis, cell culture, immunofluorescence, RNA extraction, and cDNA synthesis.
- **Genetic Editing:** CRISPR/Cas9 system proficiency (gRNA design, vector production, cell transduction).
- **Bioinformatics:** sequence analysis (Synthego ICE), primer design, and utilization of CRISPOR for gRNA design.
- **Data Analysis:** Proficiency in Excel, GraphPad.
- **Scientific Software:** BioRender, CRISPOR, ICE de Synthego.
- **Research and Scientific Writing:** Literature review, information synthesis, and technical report writing.

LANGUAGES

- **Spanish:** Native
- **English:** B2
- **Italian:** B2

PUBLICATIONS

Carrillo-Gálvez, A.B., Guerra-Valverde, J.A., Padial-Molina, M., Martínez-Cuevas, A., Abril-García, D., Olaechea, A., Martín-Morales, N., O'Valle, F., Galindo-Moreno, P. & Zurita, F. (2025). Cross-talk between NLRP3 and AIM2 inflammasomes in macrophage activation by LPS and titanium ions. Molecular Medicine, 31:223. https://doi.org/10.1186/s10020-025-01290-7

CERTIFICATIONS AND ACHIEVEMENTS

- **MOOC Machine Learning and Big Data for Bioinformática:** University of Granada, 2022.
- **MOOC Information Search:** University of Granada, 2022.
- **ERASMUS+ Program Scholarship:** Università degli Studi del Piamonte Orientale, 2021/2022.

PROYECTS

Syndromes Related to Chromosomal Deletions and Duplications.

- Conducted an extensive review of scientific literature on genetic syndromes associated with chromosomal deletions and duplications.
- Performed critical analysis of previous studies and synthesized relevant information on clinical manifestations and underlying genetic mechanisms.
- Authored a detailed report highlighting key findings and implications for diagnosis and treatment.

Qualification: 9.1

Cross-talk Between NLRP3 and AIM2 Inflammasomes in Macrophage Activation by LPS and Titanium Ions.

- Laboratory Techniques: PCR, qPCR, DNA sequencing, electrophoresis, cell culture, immunofluorescence, RNA extraction, cDNA synthesis, CRISPR/Cas9 system handling: gRNA design, vector production, cell transduction, use of fluorescence and optical microscopes.
- Bioinformatics: Sequence analysis using Synthego ICE software, primer design, and utilization of CRISPOR software for gRNA design.

Qualification: 9.7