Francisco José (Paco) Guerra-García

Predoctoral researcher

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EDUCATIONAL BACKGROUND

Universidad Pablo de Olavide

BSc, Biotechnology. GPA: 9.78 out of 10

Seville, Spain September 2018 – June 2022

RESEARCH EXPERIENCE

Stowers Institute for Medical Research Predoctoral researcher, Sankari lab	Kansas City, MO, US August 2023 – Present
Uncovering NCR peptides function in the symbiotic relationship between	en M. truncatula and S. meliloti.
Stowers Institute for Medical Research Graduate researcher, Bazzini lab	Kansas City, MO, US July 2022 – July 2023
• Dissecting the mechanisms of translation of downstream open reading frames in human cells.	
Centro Andaluz de Biología y Desarrollo (CABD-CSIC) Undergraduate thesis student, Moreno-Mateos lab	Seville, Spain September 2021 – June 2022
 Optimizing CRISPR-Cas7-11 system <i>in vivo</i> for RNA targeting in zebra Awarded with the highest qualification (10 out of 10). 	afish embryos.
Centro Andaluz de Biología y Desarrollo (CABD-CSIC) Collaborator student, Moreno-Mateos lab	Seville, Spain October 2020 – September 2021
 Using CRISPR-Cas13d to understand early development in zebrafish. Studying non-coding RNAs in vertebrates using zebrafish. 	
Centro Andaluz de Biología y Desarrollo (CABD-CSIC) Collaborator student, Santos-Ocaña lab	Seville, Spain October 2019 – March 2020
• Studying human COQ2 gene deficiency and rare mitochondrial disease	es using Saccharomyces cerevisiae.
POSTER PRESENTATIONS	
Rocky Mountain RNA Symposium Dissecting the mechanism of dORF translation activation in human cells	Aurora, CO, US April 2023
Stowers Institute Crossroads Research Conference	Kansas City, MO, US

Stowers Institute Crossroads Research Conference Dissecting the mechanism of dORF translation activation in human cells Stowers Summer Scholars Program

Dissecting the mechanism of dORF translation activation in human cells

RNA Ribored Conference *In vivo* optimization of CRISPR-Cas7-11 system for RNA targeting

AWARDS AND FELLOWSHIPS

Stowers Institute for Medical Research

Kansas City, MO, US

September 2022

July 2022

May 2022

Madrid, Spain

Kansas City, MO, US

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Stowers Summer Scholars Program internship

Universidad Pablo de Olavide Best university transcript

Ministerio de Educación y Formación Profesional Research collaboration fellowship

Universidad Pablo de Olavide Highest university entrance exam score

IES La Bahía Honors in health sciences high school

SKILLS

Computational: proficient programming in R (RNA-seq datasets analysis, statistical analysis, creation of graphs, use of databases).

Molecular biology: DNA cloning, construction and analysis of fluorescent reporters, RT-qPCR, western blot, RNA targeting (Cas13d, Cas7-11, shRNA), proteomics (CD, BLI, HPLC).

Model organisms: human cell culture (transfection, lentivirus production and transduction, flow cytometry), zebrafish (breeding, embryo manipulation and microinjection), yeast (*S. cerevisiae* culture, mitochondrial respiration assays), bacteria (*S. meliloti*, *E. coli*).

Language: Spanish (native), English (advanced).

REFERENCES

Miguel A. Moreno-Mateos, PhD mamormat@upo.es

Associate Investigator at Stowers Institute

Assistant Investigator at Stowers Institute

Ramon y Cajal Researcher-Junior PI at CABD-CSIC

Ariel A. Bazzini, PhD arb@stowers.org

Siva Sankari, PhD ssankari@stowers.org September 2022

June – July 2022

Seville, Spain September 2021 – June 2022

> Seville, Spain September 2018

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San Fernando, Cádiz, Spain June 2018

