

MARIANA ESCOBAR-RODRIGUEZ

Erasmus Mundus Master Programme in Evolutionary Biology (MEME)

MSc in Evolutionary Biology

University of Groningen

+31 6 2796 7271

mariana.escobar@evobio.eu

mescobar.rd@gmail.com

Education

2021 - Present

Erasmus Mundus Master Programme in Evolutionary Biology (MEME)

University of Groningen

2017 - 2021

BSc in Genomic Sciences

Graduated with Honours

Center for Genomic Sciences

National Autonomous University of Mexico

Research Experience

September 2022

MSc Research Intern at the Laboratory of Viral Ecology and Evolution, University of Groningen

Supervisor: Dr. Sebastian Lequime

Microbial Ecology Group, University of Groningen

- *Evolution of endogenous viral elements in Formicidae*

April 2022 - July 2022

MSc Research Intern at the Laboratory of Phylogenetics and Molecular Evolution, Institute of Evolutionary Science of Montpellier (ISEM)

Supervisor: Dr. Frédéric Delsuc

Institute of Evolutionary Science of Montpellier, University of Montpellier

- *Molecular evolution and expression of the salivary mucin genes MUC5B and MUC7 in mammals*

September 2020 - September 2021

Undergraduate Senior Thesis at the Veeramah Lab, Stony Brook University

Supervisor: Dr. Krishna R. Veeramah

Department of Ecology and Evolution, Stony Brook University

- *Evaluation of genotype imputation of ancient DNA: a simulation study*

September 2019 - October 2020

Research Intern at the Paleogenomic Consortium, INMEGEN

Supervisor: Dr. Federico Sánchez-Quinto

Department of Computational Genomics, National Institute of Genomic Medicine (INMEGEN)

- *Genomic analysis of ancient Mediterranean remains*

December 2019 - February 2020

Research Intern at the Laboratory of Adaptive Genomics, University of Potsdam

Supervisor: Dr. Michael Hofreiter

Department of Mathematics and Natural Sciences, University of Potsdam

- *Genomic analysis of historical samples of Canis lupus baileyi (Mexican wolf)*

September 2018 - October 2020

Research Intern at the Laboratory of Systems and Synthetic Biology, UNAM

Supervisor: Dr. Diego Cortez-Quezada

Center for Genomic Sciences, UNAM

- *Temperature-dependent sex determination in Lepidochelys olivacea (sea turtle)*

Publications

Taron, U; Salado, I; **Escobar-Rodríguez, M**; Westbury, M; Butschkau, S; Paijmans, J; von Holdt, B; Hofreiter, M & Leonard, J. *A sliver of the past: the decimation of the genetic diversity of the Mexican wolf*. (2021) Molecular Ecology DOI:10.1111/mec.16037

Teaching Experience

2019

Teaching assistant of Phyloinformatics course

Undergraduate Program on Genomic Sciences

Center for Genomic Sciences, UNAM

Honors and Awards

2021 - Present

Erasmus Mundus Joint Master Degree (EMJMD) scholarship

Awarded by the Erasmus+ Programme of the European Union

2021

Bachelor of Science with Honours

Awarded by the National Autonomous University of Mexico

2019 - 2020

Research Methods Training Scholarship

Awarded by the National Autonomous University of Mexico

2017

Second place at the XXV Universitarian Contest: "Science, Technology and Innovation Fair"

Awarded by the National Autonomous University of Mexico

Presentations

XXV Universitarian Contest: "Science, Technology and Innovation Fair" UNAM

2017. Faculty of Science, UNAM

In-vitro propagation of the protected cactus Echinocactus platyacanthus

Skills

- Familiar with Python, R and Bash.
- Server and cluster management for bioinformatic purposes
- Fluent Spanish and English

Interests

My current interests are human and animal diversity, population genetics, ancient DNA, and the application of genomic and computational tools to examine patterns of genetic variation from different time points in history.