



TITLE	POST DOC	TYPE OF CONTRACT	Special Appointment
BASIC SALARY	\$3,806.00 / month	TYPE OF WORK	FULL TIME (37.5 hrs./week)
DATE OF PUBLICATION:	September 28, 2021		
APPLICATION PERIOD:	October 12, 2021		
Starting Date	January, 2022		
WHO QUALIFIES TO APPLY: ALL CANDIDATES THAT REUNITE ALL SPECIAL REQUISITES FOR THE POSITION			

## JOB DESCRIPTION

**Postdoc in evolutionary and functional genomics.** An EPSCoR-funded postdoctoral position is available in the laboratory of Dr. Riccardo Papa in the Department of Biology of the University of Puerto Rico, Río Piedras Campus. The laboratory has a rich background in studying the natural history of *Heliconius* butterflies, with a focus on whole genome sequencing and performing functional assays to go after the developmental and genetic architecture of color pattern development in butterflies. These regions provide exciting candidates for further validation using functional approaches such as ATAC-seq, ChIP-seq and CRISPR to better understand the pathways involved in color pattern development and their evolution. The Papa's lab (<https://www.riccardopapalab.com>) is located in San Juan, the capital of the beautiful island of Puerto Rico, which provide amazing research opportunities and lifestyle. The selected postdoc will explore the genetic and epigenetic source of variation for natural selection and adaptation to work upon. This research project will investigate what governs patterns diversity, what limits it, and what promotes its potentials. To do so, methods of pure genetics, phylogenetics, epigenetics, single cell genomics, developmental cell biology, and functional genomics will be utilized. The final goal is to characterize the molecular architecture of single cells/scales of unique colors.

## SPECIAL REQUISITES

The candidate must have completed a Ph.D. degree within the last 5 years, preferably in genomics, population genetics or statistical genetics. The position requires skills in the more bioinformatical areas of biology, and a strong record of research in these areas. High motivation and mobility will be necessary to collaborate with the Smithsonian Tropical Research Institute (STRI, Panama; Owen McMillan), Cornell University (US; Robert Reed), George Washington University (US; Arnaud Martin) and Cambridge University (UK; Chris Jiggins). The work will focus on bioinformatics methods to analyze genomic sequencing and functional genomic data. Specifically, this includes building pipelines to assemble and analyze whole genome resequencing data using multiple platforms and obtain and analyze ATAC-seq and ChIP-seq data. Strong knowledge of the *Heliconius* system is preferred but not required.

## IMPORTANT INFORMATION

To apply, please submit (i) a cover letter including motivation and research interests, (ii) a full CV that includes all requisites for the position, (iii) contact information for two references electronically, and (iv) copies of all academic degrees \*(diplomas and certifications). Inquiries about the position can be directed to [riccardo.papa@upr.edu](mailto:riccardo.papa@upr.edu)

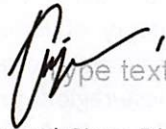
APPLICATIONS SUBMITTED WITH INCOMPLETE INFORMATION WILL NOT BE CONSIDERED. CANDIDATES WITH A PH.D. DEGREE OF 5 YEARS OR MORE ARE NOT ELIGIBLE FOR THIS POSITION.

\*The selected candidate must present official credentials from all his/her academic degrees. This job opportunity is financed with external funding and does not consider the expectation of a probation position.

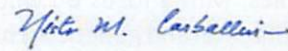
All documents must be submitted to the following electronic address before or by October 12, 2021:

Attention to: **Dr. Tugrul Giray, Interim Director**, Department of Biology  
Subject: **Postdoc in evolutionary and functional genomics**  
e-mail: **riccardo.papa@upr.edu**

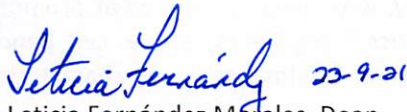
APPROVED BY:



Dr. Tugrul Giray, Director  
Department of Biology



Dr. Néstor M. Carballeira, Dean  
Faculty of Natural Science



Prof. Leticia Fernández Morales, Dean  
Deanship for Academic Affairs

PAGE 2 OF 2