

Biographical Sketch

Laura M. Rodríguez Bonilla

Current Status

Undergraduate Student
Department of Biology, UPR- Rio Piedras

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Education

2017-present BS Molecular Cell Biology, UPR- Rio Piedras

Current Research Interests

My research is focused around uncovering the molecular mechanisms by which the transcription factor (TF) OxyR is involved in the oxidative stress-response system of bacteria. Studying this will allow us to understand how alterations in the TFs-genome interactions can reduce an organism's survivability, contributing to the deciphering of novel physiological roles. My fields of interest include molecular biology, genetics, and genomics of human diseases. I am particularly interested in the underlying genetic causes and the study of different molecular mechanisms responsible in diseases such as cancer and inheritance defects.

Research Experience

March 2018- present UPR-Rio Piedras, Research Assistant (mentor: Dr. José A. Rodríguez)
Summer 2019 Research Assistant, Genomic analysis of prostate cancer germline DNA.
University of Pennsylvania (mentor: Dr. Kara Maxwell)

Honors

August 2019- present Research Initiative for Scientific Enhancement Fellowship
2017-present Dean's List Student
2017- present Honor Roll Student

Presentations

July 27, 2019. Rodríguez-Bonilla, L; Maxwell, K; Kelly, G; Le, A; Caldwell, D;
Identification of Pathogenic DNA Repair Gene Mutations in a Gleason Score Stratified Cohort. Leadership Alliance National Symposium, Hartford, CN.

August 8, 2019. Rodríguez-Bonilla, L; Maxwell, K; Kelly, G; Le, A; Caldwell, D;
Identification of Pathogenic DNA Repair Gene Mutations in a Gleason Score Stratified Cohort. Penn SUIP Research Symposium Philadelphia, PA.