

Biographical sketch

Anthony R Rivera Barreto

Current status

PhD student

Dept. of Biology, UPR-Rio Piedras

E-mail: arrb09@gmail.com

Education

2009-2015	B.S. Cell Molecular Biology UPR-RP
2015-present	UPR-Rio Piedras
2021	PhD Biology (Expected)

Current Research Interest:

Transcription factors and their intrinsic interaction with DNA. Roles in gene expression and cis-regulatory sequences that play role in multiple phenotypes. Understanding the role of the SIX family transcription factor which plays a role in eye, nervous and mesoderm development in various organism through the animal kingdom. Mutations on this family has been related to various diseases and development problem and role in some types of cancers. Understanding their DNA binding preference will help us understand the role they play in multiple phenotypes and further understand the relationship between the genome and the phenotype.

Research Experience:

2017-Present	Research Assistant (Mentor: Dr. Jose A Rodriguez Martinez)
2015-2017	Research Assistant (Mentor: Dr. Gary A Toranzos Soria)

Other Research Experience:

2018	Data Carpentry Managing Genomic Data.
2018	CUREs Workshop Course-based Undergraduate Research Experience Network 2 (CUREnet2) University of Puerto Rico- Rio Piedras Campus.
2018	BioXFEL Protein Production and Purification University of Puerto Rico- Rio Piedras Campus.

Presentations at Local Meetings:

Rodríguez-Rios, J.M.; Rosado, E.; Santiago, E.; **Rivera-A.**; Papa, R.; Rodríguez, J.. DNA binding properties of the transcription factor optix. Presented at 37th Puerto Rico Interdisciplinary Scientific Meeting and the 52nd Junior Technical Meeting, Universidad del Turabo, Gurabo, PR. April 28, 2018.

Serrano, T., González, A., **Rivera, A.**, Williams, D., Hazen, T., and Toranzos, G. Characterization of *Enterococcus* spp. isolates from pristine areas in El Yunque Forest and the presence of virulence and resistance genes. 52th Junior Technical Meeting (JTM) and the 37th Puerto Rico Interdisciplinary Scientific Meeting (PRISM). April, 2018.

Presentation at National Meeting:

González, A., Serrano, T., **Rivera, A.**, Williams, D., Hazen, T., and Toranzos, G. Broad host-range lysogenic enterophages isolated from soil and water from Puerto Rico: Possible role in evolution - ASM General Meeting, Atlanta, Georgia (2018) (Poster)

Rodríguez-Rios, J.M.; Rosado, E.; Santiago, E.; **Rivera-A.**; Papa, R.; Rodríguez, J.. DNA binding properties of the transcription factor optix. Presented at Experimental Biology 2018, San Diego Convention Center, San Diego, California. April 23, 2018. (Poster)