

## Biographical Sketch

JOSHUA G. MEDINA FELICIANO

### Current Status

PhD Student  
Department of Biology, UPR-Río Piedras

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### Education

2013-2017 BS Cell and Molecular Biology, Universidad Metropolitana  
2018-present PhD Biology, UPR-Río Piedras

### Current Research Interest

My research interest is to understand the genomic components that orchestrate regeneration processes in the sea cucumber *Holothuria glaberrima*. It is currently a great interest in developing modern genomic data, as many aspects of the molecular processes of regeneration are not quite understood. Thus, I am currently working towards generating a reference level genome assembly of the sea cucumber.

### Professional Experience

2015 Research Project Leading Investigator, Universidad Metropolitana (UMET), Puerto Rico  
2017 General Biology Laboratory Instructor, University of Puerto Rico, Mayagüez Campus  
2018 General Biology Laboratory Instructor, University of Puerto Rico, Mayagüez Campus  
2018 Biochemistry and Seminars Professor, Universidad del Sagrado Corazón, Puerto Rico

### Honors

2014 Science Scholarship, Universidad Metropolitana, Puerto Rico  
2017 American Chemical Society, UMET Chapter Vice-President  
2018 PRLSAMP NSF Bridge to the Doctorate Fellowship  
2020 RISE (NIH) Fellowship for Graduate Students

### Publications

Medina-Feliciano JG, Pirro S, García-Arrarás JE, Mashanov V, Ryan JF. 2020. Draft Genome of the Sea Cucumber *Holothuria glaberrima*, a model for the study of regeneration. *BioRxiv Genomics* doi: 10.1101/2020.05.26.117028.

### Presentations at Local Meetings

August 2015. Medina-Feliciano J, Flores-Hernandez A, Lopez-Colon J, Rodriguez-Torres M, Primera-Pedrozo O. "Water Synthesis and Stability of Silica-Encapsulated Cadmium Selenide Quantum Dots for Bio-Applications" Poster Presentation. AGMUS 2015 Research Symposium, San Juan, Puerto Rico

May 2019. Medina-Feliciano J, Colón-Marrero S, Peguero-Pereira E, Quispe-Parra D, Cruz-Gonzalez S, Ortiz-Zuazaga H, García-Arrarás JE. "Differential expression of *Wnt* family genes in the mesentery regeneration of the sea cucumber, *H. glaberrima*" Poster Presentation. PRLSAMP Jr. Tech Conference. Mayagüez, Puerto Rico

### Presentations at National Meetings

November 2015. Medina-Feliciano J, Flores-Hernandez A, Lopez-Colon J, Rodriguez-Torres M, Primera-Pedrozo O. "Water Synthesis and Stability of Silica-Encapsulated Cadmium Selenide Quantum Dots for Bio-Applications" Poster Presentation. ABRCMS 2015 Conference, Seattle, Washington

March 2016. Medina-Feliciano J, Flores-Hernandez A, Lopez-Colon J, Rodriguez-Torres M, Primera-Pedrozo O. "Water Synthesis and Stability of Silica-Encapsulated Cadmium Selenide Quantum Dots for Bio-Applications" Poster Presentation. 251st ACS National Meeting & Exposition, San Diego, California

December 2018. Medina-Feliciano J, Colón-Marrero S, Peguero-Pereira E, Quispe-Parra D, Cruz-Gonzalez S, Ortiz-Zuazaga H, García-Arrarás JE. “Differential expression of *Wnt* family genes in the mesentery regeneration of the sea cucumber, *H. glaberrima*” Poster Presentation. IEEE BIBM 2018, Madrid, Spain

February 2019. Medina-Feliciano J, Colón-Marrero S, Peguero-Pereira E, Quispe-Parra D, Cruz-Gonzalez S, Ortiz-Zuazaga H, García-Arrarás JE. “Differential expression of *Wnt* family genes in the mesentery regeneration of the sea cucumber, *H. glaberrima*” Poster Presentation. LSAMP PI/PD and BD National Meeting 2019, Washington, D.C.

February 2019. Medina-Feliciano J, Colón-Marrero S, Peguero-Pereira E, Quispe-Parra D, Cruz-Gonzalez S, Ortiz-Zuazaga H, García-Arrarás JE. “Differential expression of *Wnt* family genes in the mesentery regeneration of the sea cucumber, *H. glaberrima*” Oral Presentation. Emerging Research National (ERN) Conference 2019, Washington, D.C.

February 2020. Medina-Feliciano J, Pirro S, Garcia-Arrarás JE, Ryan JF, “Draft Genome of the Sea Cucumber *Holothuria glaberrima*” Oral Presentation. 2020 SouthEast Regional SACNAS Meeting, Gainesville, FL.

### **Workshops, Meetings and External Courses**

- 2014 Summer Intensive English Program at State University of New York, Oswego, NY
- 2015 Characterization Training Experience (HR-TEM & ICP-AES) at MIT, Boston, MA
- 2016 Statistics and Mathematical Models Workshop, UMET, San Juan, PR
- 2017 Microscopy Workshop: Fluorescence and Bright Field FSX 100 Olympus Microscope, San Juan, PR
- 2017 Successful Student Chapter Presentation at the ACS National Meeting in San Francisco, CA
- 2018 PR-LSAMP Grants and Fellowship Application Workshop, Pontifical Catholic University of Puerto Rico, Ponce, PR
- 2018 Data Carpentry Genomics Workshop, Univeristy of Puerto Rico, Rio Piedras, San Juan, PR
- 2018 First Year Graduate Student Teaching Assistant Training, University of Puerto, Rio Piedras, San Juan, PR
- 2018 Genome Wide Characterization of Chromatin Accessibility, University of Puerto Rico, PR
- 2018 17th Best Practice Conference on Teaching and Learning Transforming STEM Education Through Science Education and Geocognition Research, Pontifical Catholic University of Puerto rico, Ponce, PR
- 2018 Causal Discovery Workshop, Univeristy of Puerto Rico, Rio Piedras, San Juan, PR
- 2019 2019 PKAL Puerto Rico Regional Meeting & 18th Annual Best Practice conference on Teaching and Learning, University of Puerto Rico, Rio Piedras, San Juan, PR
- 2019 Statistical Methods for Functional Genomics Course, Cold Spring Harbor, NY