

Biographical Sketch

LYMARIE M. DÍAZ DÍAZ

Current Status

PhD Student
Dept. of Biology, UPR-Río Piedras

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Education

2009-2013 BS Cellular and Molecular Biology, UPR-Río Piedras
2015- present PhD Biology, UPR-Río Piedras

Current Research Interests

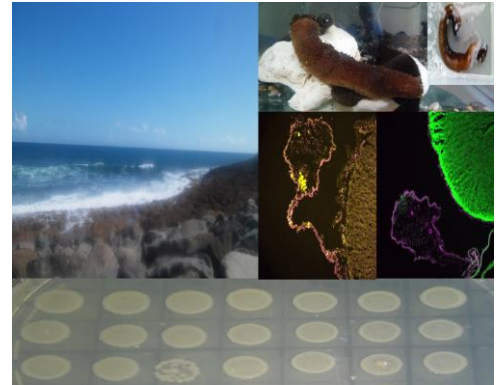
My current interest is to extend our knowledge of the role of the microbiota in regenerative processes by studying its role in intestinal regeneration, using the sea cucumber *Holothuria glaberrima*. Because sea cucumbers are well-known to regenerate their digestive system, my approach is to focus on the role that microbiota may have during the intestinal regeneration of these echinoderms. I will characterize the microorganisms that are been affected using antibiotics, and how these changes are related to the regeneration.

Professional Experience

- 2009 Undergraduate Research Assistant, Michelle Borrero, Ph.D.
- 2010 Undergraduate Research Assistant. José E. García Arrarás, Ph.D. RISE fellowship.
- 2011 Undergraduate Summer Internship Suzanne Fuqua, Ph.D. Department of Biochemistry. SMART Program, and CPRIT fellowship.
- 2012 Immunology's tutoring. *Department of Biology, University of Puerto Rico at Río Piedras Campus*. San Juan, P.R.
- 2013 Laboratory Technician. Department of Biology, University of Puerto Rico, Río Piedras Campus.
- 2015 General Biology Laboratory Teacher Assistant, Department of Biology, University of Puerto Rico, Río Piedras Campus.
- 2016 Genetics course Teacher Assistant Department of Biology, University of Puerto Rico, Río Piedras Campus.

Honors

- 2008 Robert C. Byrd Fellowship, *Department of Education of Puerto Rico*.
- 2009 American Chemical Society, UPR-RP Chapter member.
- 2009 Dean's List, University of Puerto Rico, Río Piedras Campus
- 2009 Golden Key Honor Society member UPR-RP Chapter
- 2009 RISE (NIH) Fellowship for undergraduate students
- 2010 Science and Mathematics Access to Retain Talent (SMART) Fellowship.
- 2011 CIPRT Fellowship.
- 2011 Jr. Tech Conference, Oral Presentation, The Puerto Rico Stokes Alliance for Minority (PR-LSAMP).
- 2011-2013 American Society for Biochemistry and Molecular Biology member, UPR-RP Chapter
- 2012 -2013 American Society for Biochemistry and Molecular Biology Historian, UPR-RP Chapter
- 2016 Sociedad de Microbiología de Puerto Rico member
- 2017 Yale Ciencia Academy for Career Development participant
- 2017 AAAS member
- 2017 RISE (NIH) Fellowship for graduate students



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Presentations at Local Meetings

Ortiz-Troche, Stephanie, Diaz-Diaz, Lymarie, and Garcia-Arraras, Jose. Effects of Retinoic Acid on Intestinal Regeneration of *Holothuria glaberrima*. University of Puerto Rico, Rio Piedras Campus. PRISM, UPR-Carolina; March 10, 2012.

Diaz-Diaz, Lymarie, Ortiz-Troche, Stephanie, and Garcia-Arraras, Jose. Effects of Retinoic Acid Synthesis Regulation in the Intestinal Regeneration of Sea Cucumber *Holothuria glaberrima*. RISE Area Conference, Carolina, PR. March 2013.

Lymarie Díaz-Díaz, Julio Cuevas Cruz, Sonya Malavez Cajigas, Paola I. Rodríguez Sánchez, Omar Delannoy Bruno, and José E. García Arrarás. Effect of Gut Microbiota (Antibiotics) in the Intestinal Regeneration of the Sea Cucumber *Holothuria glaberrima*. Pepino Lab Mini-Symposium. University of Puerto Rico, San Juan, PR. May 26, 2016

Presentations at National Meetings

Díaz-Díaz, Lymarie M. Del Valle-Ávila, Cristina and García-Arrarás, José E. Impact of Wnt activation in *Holothuria glaberrima* sea cucumber's intestinal regeneration. ABRCMS, Charlotte, North Carolina November, 2010

Diaz-Diaz, Lymarie, Gu, Guowei, Fuqua, Suzanne. Dicer Influences on Breast Cancer Resistance Protein (BCRP) in Breast Cancer. Baylor College of Medicine, Houston TX. July, 2011

Diaz-Diaz, Lymarie, Gu, Guowei, Fuqua, Suzanne. Dicer Influences on Breast Cancer Resistance Protein (BCRP) in Breast Cancer,. ABRCMS, St. Louis, November 2011.

Diaz-Diaz, Lymarie, Ortiz-Troche, Stephanie, and Garcia-Arraras, Jose. Effects of Retinoic Acid Synthesis Regulation in the Intestinal Regeneration of Sea Cucumber *Holothuria glaberrima*. ABRCMS, San Jose California, November 2012.

Other Presentations

Paola I. Rodríguez Sánchez, Omar Delannoy-Bruno, Lymarie Díaz-Díaz, José E. García Arrarás. Effect of Gut Microbiota in Intestine Regeneration of the Sea Cucumber *Holothuria glaberrima* (Oral Presentation). Jr. Tech Conference, Puerto Rico Stokes Alliance for Minority (PR-LSAMP), March, 2015. University of Puerto Rico, Río Piedras Campus, San Juan, PR.

Julio M. Cuevas Cruz, Sonya Cajigas Malavez, Lymarie Díaz Díaz and José García Arrarás. Effect of Gut Microbiota in the Intestinal Regeneration of the Sea Cucumber *Holothuria Glaberrima* (Oral Presentation). Jr. Tech Conference, the Puerto Rico Stokes Alliance for Minority (PR-LSAMP), Mach 12, 2016. Universidad Católica de Ponce, Ponce, PR.

Sonya Malavez Cajigas, Julio Cuevas Cruz, Paola I. Rodríguez Sánchez, Lymarie Díaz-Díaz, Omar Delannoy Bruno, José E. García Arrarás. Effect of Gut Microbiota on the Regeneration of the Enteric Nervous System (Poster Presentation). PRNeuroscience, December 5, 2015. University of Puerto Rico, Medical Science Campus, San Juan, PR.

Sonya Malavez Cajigas, Lymarie Díaz-Díaz, Omar Delannoy Bruno, Julio Cuevas Cruz, Paola I. Rodríguez Sánchez, José E. García Arrarás. Effect of Gut Microbiota on the Regeneration of the Enteric Nervous System (Poster Presentation). 11th Annual RISE Conference, Frontiers of Neurobiology, March 19, 2016. Hotel Condado Plaza Hilton, San Juan, PR.

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Sonya Malavez Cajigas, Julio Cuevas Cruz, Paola I. Rodríguez Sánchez, Lymarie Díaz-Díaz, Omar Delannoy Bruno, José E. García Arrarás. Effect of Gut Microbiota on the Regeneration of the Enteric Nervous System (Oral Presentation). Encuentro Subgraduado de Investigación y Creación. (iINAS Symposium), April 8, 2016. Hotel Condado Plaza Hilton, San Juan, PR.

Workshops, meetings and external courses

2015 XSEDE Workshop at the University of Puerto Rico.

2015 Python Interactive Programming course by the Case Western University.

2015 R Programming course by the Harvard University.

2015 Basic and Clinical advantages in Immuno-oncology. Puerto Rican Congress of Immun-Oncology 2015. Caribe Hilton Hotel, San Juan, PR. University of Puerto Rico, Medical Sciences Campus in collaboration with M.D. Anderson Cancer Center

2016 Proteomic Workshop by Bryan A. Ballif, by the University of Puerto Rico, Medical Sciences Campus in collaboration with the Campus of Rio Piedras.

2017 Semi-annual meeting (SMPR): "Microbiology of Sex", Universidad del Este, Carolina, PR

2017 AAAS meeting, Boston, MS

2017 Next-Generation Sequencing Symposium and RNA Sequencing Workshop at University of Puerto Rico - San Juan