

## Biographical Sketch

# Eunice Lozada-Delgado

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### **Current Status:**

Ph.D. Candidate

Dept. Biology, University of Puerto Rico- Rio Piedras

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### **Education**

2013-2019 (Expected) Ph.D. Biology *University of Puerto Rico, Rio Piedras/Medical Sciences Intercampus*

2007-2012 B.S. Microbiology (Magna Cum laude) *University of Puerto Rico, Humacao, PR*

**Current Research Interests:** My dissertation research has focused on evaluating the role of microRNA-143 as a potential therapeutic target for Glioblastoma using patient samples, cell lines, and mouse models.

### **Research Experience**

**2014- Present *Doctoral Research: Department of Biochemistry, UPR Medical Sciences Campus (Research Advisor: Dr. Pablo Vivas).***

- Dissertation research project in elucidating the Biological and Molecular role of miR-143 in Glioblastoma brain tumor cells and evaluation of therapeutic potential in nude mice.

**2014 Department of Biochemistry, UPR Medical Sciences Campus (Research Advisor: Surangani Dharmawardhane).**

- Rotation project in breast cancer research titled: Inhibition of Rac Directed Signaling by Ehop-016.

**2013 Department of Biology, UPR Rio Piedras Campus (Research Advisor: Dr. Carlos Gonzalez).**

- Rotation project in post-transcriptional regulation of Interleukin-3 titled: The role of the microRNA regulatory pathway in Human Interleukin-3 expression.

**2009-2013 *Undergraduate Research: Department of Biology, UPR Humacao Campus (Research Advisor: Dr. Neftalí Ríos-López)***

- Genetic characterization of the microbial diversity in reproductive sites used by the endangered Puerto Rican frog *Eleutherodactylus juanariveroi*. Identification of a possible symbiotic fungicide bacteria that could potentially serve as a defense mechanism of the egg clutches against Bd fungi.

**2011 Department of Biology, Notre Dame University IN (Research Adviser: Dr. Schafer)**

- Summer research internship in breast cancer titled: The role of neutralizing enzymes in the survival of detached MCF-10A mammary epithelial cells.

### **Other Research Activities**

November 2018 AACR Translational research for basic scientists workshop. Dana Farber Cancer Institute, Boston.

May-June 2016 PR-INBRE Technology Transfer Award. Two-week training experience at Dr. Sarkaria's laboratory at Mayo Clinic Rochester, MN.

May 2016 PR-INBRE training event - Attune® Acoustic Focusing Cytometer at UMET.

### **Academic Experience**

**2013 *Academic Teaching Experience: Department of Biology, University of Puerto Rico- Rio Piedras Campus***

- Teaching Assistantship position in the Biology Department of the Genetics course. Preparation of lectures and evaluations including quizzes and tests from the course.

#### **August-December 2015**

- Teaching Assistantship position in the Biology Department. Teaching of the General Biology laboratory course. Preparing lectures and evaluations, as well as grading and other assignments. Teaching of basic laboratory techniques as aseptic techniques, pipetting, cloning, and others.

#### **Industry Experience**

2012-2013 *Quality Assurance Incoming Associate*. **AMGEN Manufacturing Limited**, Juncos PR (Contractor).

Duties: Quality Assurance inspections for incoming components (syringes and vials) to be used in the production of drugs.

2012 *Laboratory Technician*. **Pall Biomedical/Haemonetics Corp.**, Fajardo PR (Temp).

Duties: Quality Assurance laboratory procedures in both physical properties and microbiological tests for the release of the manufactured product with the highest quality. Develop and revise Standard Operating Procedures (SOPs) and provide training.

2012 *Microbiology Internship*. **Janssen Ortho LLC**, Gurabo PR (Intern).

Duties: Observation of quality procedures performed in the Microbiology Laboratory to release products to the market.

#### **Recent Awards and Honors**

- Yale Ciencia Academy Application Review Committee Member (2019)
- Accepted and attended the AACR Translational Cancer Research for Basic Scientists Workshop. November 4-9 at Boston, USA.
- Yale Ciencia Academy Fellow 2018 cycle.
- Honorable mention as applicant of the Ford Dissertation Fellowship, 2017 cycle.
- PR-INBRE Technology Transfer Award. For a two-week training experience at Dr. Sarkaria's laboratory at Mayo Clinic Rochester, MN. May 23-June 3, 2016.
- Invited speaker, Lecture in Regulation of gene expression in Eukaryotes in two groups of the Genetics course of the University of Puerto Rico- Rio Piedras Campus. December 2015.
- Award to attend the "Frontiers in stem cells in cancer" course at the Ponce Health Sciences University, PR. February 8-13, 2015.
- NIGMS-RISE UPR-RCM NIH Fellowship (September 2014-December 2018)
- Academic Excellence, Golden Key International Honour Society invitation for membership as part of the 15% higher class. (Accepted) May 2014

#### **Recent Presentations**

- **Lozada-Delgado, E. L.**, Valiyeva, F., Vivas-Mejía, P. Identification of novel target mRNAs of microRNA-143 in glioblastoma cells. AACR Annual Meeting 2018. Chicago, IL, April 2018.
- Conde Del Moral, I., Reyes, J., **Lozada, E.**, Ospina, C., Vivas-Mejia, P. Antitumor activity of *Simarouba tulae* extracts in a panel of cáncer cell lines. Experimental Biology Meeting 2018. San Diego, CA, April 2018.
- Santana-Rivera, Y., **Lozada-Delgado, E.**, Vivas-Mejia, P. Role of MicroRNAs in Brain tumors as Diagnostic and Prognostic Markers. American Society for Cell Biology and European Molecular Biology Annual Meeting 2017. Philadelphia, PA. December 2017.

- **Lozada-Delgado, E.L.**, Valiyeva, F., Marcos, M., Sarkaria, J., Vivas-Mejia, P. Targeting MicroRNA-143 in Glioblastoma: Tumor suppressor or OncomiR? AEMPR Meeting 2017, held at the Centro de Convenciones Los Paseos, in Cupey, San Juan PR. May 2017.
- **Lozada-Delgado, E.L.**, Valiyeva, F., Marcos, M., Sarkaria, J., Vivas-Mejia, P. Targeting MicroRNA-143 in Glioblastoma cell lines and mouse models. AACR Annual Meeting, held at Washington DC. April 2017.

### **Publications**

- **Lozada-Delgado, E. L.**, Santana-Rivera, Y., Miranda-Román, M. A., Valiyeva, F., Rivera-Díaz, M., Marcos, M., Vivas-Mejía, P. “Targeting MicroRNA-143 Inhibits Cell Proliferation and Induces Apoptosis of Glioblastoma Cells”; *Cancers*, October **2018**.
- **Lozada-Delgado, E. L.**, Grafals, N., and Vivas-Mejia, P. “Interference RNA for Glioblastoma Therapy: Innovation Ladder from the Bench to Clinical Trials”; Review article published in *Life Sciences*, August **2017**.
- Manfredi, B., Morales- Ortíz, J., Díaz-Díaz, L. M., Hernandez-Matias, L., Barreto-Vázquez, D., Menéndez-Pérez, J., Rodríguez-Cordero, A., Villalobos-Santos, J. C., Santiago-Rivera, E., Rivera-Dompenciel, A., **Lozada-Delgado, E. L.**, Madhavi Kuchibhotla, Kelvin Carrasquillo-Carrión, Abiel Roche-Lima, and A. Valance Washington “Characterization of monoclonal antibodies to mouse TLT-1 suggests that TLT-1 plays a role in wound healing”; *Monoclonal Antibodies in Immunodiagnosis and Immunotherapy*, April **2018**.

### **Peer Review Service**

- *Life Sciences* Journal Reviewer. 2018- Present
- *Brain and Neurological Disorders* Journal Reviewer. 2018- Present
- *Journal of Translational Medicine* Reviewer. 2018- Present

### **Memberships**

American Association for Cancer Research (AACR)  
Golden Key International Honour Society

### **Languages**

Spanish – Native language  
English – Speak fluently and read/write with high proficiency