

Coral M. Pérez González

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939-245-1696

EDUCATION

University of Puerto Rico, Aguadilla

2014- In progress

B.S. in Biology Candidate, Intended Concentration: Biomedical sciences (3.93 GPA)

The University of Puerto Rico is a Hispanic Serving Institution

Expected day of graduation: June 2018

ACADEMIC EXPERIENCE

Summer Research Opportunity Program

May 2017- August 2017

Purdue University

- Generation of a stable MCF7 cell line expressing an engineered N-terminal truncated nucleolin protein. The expression level of the truncated nucleolin protein was confirmed through immunoblotting protein detection. This stable cell line will be an important tool for completing the future chromatin immunoprecipitation coupled with DNA sequencing (ChIP-seq) studies for nucleolin and provide a significant impact on the understanding of G-quadruplex function in vivo.

Biology Undergraduate Research

August 2016- May 2017

University of Puerto Rico at Aguadilla

- Evaluation of the antibacterial activity of *Curcuma longa* against pathogenic bacteria. Determined the efficacy of the curcuma plant extracts against pathogenic bacteria through the disc and well-diffusion method.
- Characterization of *Curcuma longa* antioxidant activity using the 2,2-diphenyl-1-picrylhydrazyl (DPPH) free radical scavenging activity.
- One-year research program supported by the USDA-2015-70004-24167 grant and the Department of Natural Sciences, UPR-Aguadilla.

MEETING PRESENTATIONS AND INVITED SEMINARS

Perez-Gonzalez C, **Malavez Y.** 2016. Evaluation of the antibacterial activity of *Curcuma longa* (Poster Presentation). XVI Undergraduate Research Symposium. University of Puerto Rico at Aguadilla, Aguadilla, PR.

Perez-Gonzalez C, **Dazhou Y.** 2017. Generation of a stable MCF7 cell line expressing an engineered N-terminal truncated nucleolin protein (Oral and Poster Presentation). Summer Research Opportunity Program Symposium, Purdue University, Indiana.

HONORS AND AWARDS

Honor Scholarship

August 2015- present

By: Zaida Serrano, Department of Registration Director
UPR-Aguadilla

Mesón Sándwiches Fellowship “Beca de El Mesón Sándwiches 2016-2017”

May 2017

By: Nitza Hebé Rivera, M.D.
El Meson Sandwiches

Athlete with Academic Excellence Award

April 2017

By: Zaida Serrano, Department of Registration Director
UPR-Aguadilla

Honor Roll

March 2017

By: Herminia Alemañy Valdez, Ph D., Inmate Rector
UPR-Aguadilla

Athlete with Academic Excellence Award

April 2016

By: Eldon Ayala, Athletic Department Director
UPR-Aguadilla

Honor Roll

March 2016

By: Nelson A. Vera Hernandez, Ph D., Rector
UPR-Aguadilla

Athlete Scholarship

August 2015

By: Eldon Ayala, Athletic Department Director
UPR-Aguadilla

Academic Excellence Student Award

May 2014

By: Wilson Medina, School Principal
Catalina Morales de Flores

PROFFESIONAL EXPERIENCE

Recreation and Sport Department, Moca, Puerto Rico

June 2014- October 2016

Lifeguard and pool chemical maintenance

- Supervises the safety and rescue of swimmers in the swimming pool, communicate and enforce all pool rules in a personable and professional manner, and work as a team with other lifeguards.

Marriott Courtyard, Aguadilla, Puerto Rico

June 2016- August 2016

Lifeguard

- Summer work

- Supervises the safety and rescue of swimmers in the hotel swimming pool, communicate and enforce all regulations in a personable and professional manner, and work as a team with other lifeguards during special events.

Moca Swimming Team, Moca, Puerto Rico

August 2015- May 2016

Swimming coach assistant and instructor

- In charge of new swimmers and pre-team and swimming instructor to Down syndrome child.

Las Cascadas Water Park, Aguadilla, Puerto Rico

April 2015- September 2015

Lifeguard and receptionist

- Front desk staff
- Supervises the safety and rescue of swimmers in the swimming pool.

Atlantic Bilingual School, San Sebastian, Puerto Rico

May 2014- August 2014

Swimming Instructure during summer camp

- Responsible for lecture, planning course activities, including syllabus preparation, and supervision.
- Held regular conferences with students and participate in summer camp committees and activities.

EXTRACURRICULAR ACTIVITIES

Childhood Cancer Association

August 2016-present

Member

- Childhood cancer support organization dedicated to supporting children living with cancer, and their families.

Future Pharmacists Association

August 2016-present

Member

- Organization catering to all university students enrolled in the Pre-Pharmacy program or interested in making their anticipated career in the Pharmacy field.

Moca Apostolic Project

August 2016-present

Member

- School for leaders of the community.
- Christian organization that make activities for children and teen and organize community services activities.

Beta Beta Beta Biological Honor Society (Zeta Lambda Chapter)

August 2015-present

Member

- Honor society for students, particularly undergraduates, dedicated to improving the understanding and appreciation of biological study and extending boundaries of human knowledge through scientific research.

American Chemical Society

August 2015-present

Member

- Organization that advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people.

UPR Aguadilla Athlete Association

August 2015-present

Member and President

- President of the association.
- Organize athlete's activities and provide feedback for the university members.
- Gives direction and inertia to the formulation and achievement of the association philosophy, mission, strategy, and goals.

University of Puerto Rico in Aguadilla, Athletic Center

Athlete

August 2014- present

- Swimming team
Practice for 4 hours a day and participate in the Interuniversity Athletes League (LAI).
Team Captain
December 2014- May 2015
- Soccer team
Practice for 6 hours a week and participate in the Interuniversity Athletes League (LAI).
- Track and Field team
August 2015- December 2015
Practice for 8 hours a week and participate in the Interuniversity Athletes League (LAI).

SKILLS AND TECHNIQUES

Laboratory skills:

- Chemicals
 - Preparation of buffers
 - Titration
 - Preparation of solutions (molarity calculation and pH measurements)
- Biological/ microbiological

- Bacterial and blood smears
- Light microscopy
- Bacterial culture
- Bacterial species isolation from complex cultures
- Enumeration of coliform bacterial and viruses
- Molecular techniques:
 - SDS-PAGE
 - Electrophoresis
 - Western Blot
 - Elissa
 - Differential staining
 - Enzymatic assays
 - Spectrophotometry

Certifications:

- Lifeguard certification
The American Red Cross lifeguarding certification provides the skills to prevent, recognize, and respond to aquatic, breathing, and cardiac emergencies.
- CPR certification, First Aid certification
The American Red Cross FirstAid/CPR/AED certification provides the skills to respond and recognize breathing and cardiac emergencies in adults, children, and infants until more advanced medical personnel take over.
- Blood Control certification, Shallow water rescue certification, Swimming instructor certification
The Bloodborne Pathogen Training provide the knowledge and skills for those who are in risk of exposure to blood and other bodily fluids to respond to emergencies.

Computational skills:

- Proficient with Microsoft Word, Excel, Power Point, and Mini Tab.

Language:

- Bilingual in English and Spanish.

REFERNCES

References are available if request.