

Ángel D. Hernández-Mejías

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Education:

2016 – present

University of Puerto Rico – Rio Piedras

Current Research Interests:

My research has focused on marine natural products chemistry. Our goal is to synthesize a small library of compounds analogous to Majusculamide D, a cytotoxic compound isolated from marine cyanobacteria. These compounds will be subjected to a biological evaluation against different cancerous cells.

Research Experience:

University of Puerto Rico – Medical Science Campus – School of Pharmacy

research advisor: Dr. Eduardo Caro

[2019 – present]

Synthesis and Biological Evaluation of Majusculamide D Analogous Compounds

Université Toulouse III – Paul Sabatier – research advisor: Dr. Suzanne Fery-Forgues [2019]

Study of New Rhenium(I) Complexes in View of the Controlled Release of Carbon Monoxide

University of Puerto Rico – Rio Piedras – research advisor: Dr. Dalice Piñero [2017 – 2019]

Dmit(acac)₂ Complexes as MRI Contrast Agents: Coordination Study of Ligands with 3d Metals

New York University – Department of Chemistry – research advisor: Dr. Daniela Buccella [2018]

Towards the Characterization of a Genetically Encoded Mg-ATP Sensor for Correlation Studies with Free Mg²⁺

University of Puerto Rico – Rio Piedras – research advisor: Dr. Liz Diaz [2016 - 2017]

Renewable energy from *Osmundaria Obtusiloba* by hydrothermal liquefaction

Ulvan-Silica aerogels for sensing applications through the immobilization of *Vibrio Fischeri*

Presentations:

Annual Biomedical Research Conference for Minority Students 2018 (ABRCMS)

November 14-17, 2018 – Indianapolis, Indiana – Poster Presentation

“Determining the Stoichiometry of a Coordinating Event between Metal Ions (Ni^{2+} , Co^{2+} , Mn^{2+} , and Gd^{3+}) and a Novel Ligand [$\text{dmit}(\text{acac})_2$]”

NYU REU chemical biology Final Symposium

August 3 and 9, 2018 – NYU – Oral and Poster Presentations

“Towards the Characterization of a Genetically-Encoded Mg-ATP Sensor for Correlation Studies with Free Mg^{2+} ”

Puerto Rico Junior Technical Meeting (JTM)

April 28, 2018 – Universidad del Turabo – Oral Presentation

“Determining the stoichiometry of a coordinating event between metal ions (Ni^{2+} , Co^{2+} , and Mn^{2+}) and a novel ligand [$\text{dmit}(\text{acac})_2$]”

Honors:

Maximizing Access to Research Careers (NIH MARC) Fellow [2019 – present]

University of Florida/France, NSF iREU program [2019]

Outstanding presentation award in the Chemistry Section at the 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS) [2018]

NSF - New York University, chemical biology REU program [2018]

Research Initiative for Scientific Enhancement (NIH RISE) Fellow [2017 – 2019]

Honors Tuition scholarship recipient - University of Puerto Rico, Rio Piedras [2017-2018]

Dean’s List member at the University of Puerto Rico, Rio Piedras [2016 – present]