

## Biographical Sketch

---

**Luis O. Cabrera Hernández**

### Current Status

Undergraduate Student

Dept. of Biology, UPR Rio Piedras

Email: [luis.cabrera5@upr.edu](mailto:luis.cabrera5@upr.edu)

### Education

2017-Present BS Cellular Molecular Biology

2022 PhD Biochemistry (expected)

**Current Research Interests:** The main objective of my research is to modify selective lysine residues in the secretory phospholipases A2 (sPLA2) isolated from different snake venoms, specifically from sPLA2 Group I and II. My interest is to evaluate the electrostatic role of lysine residues in the binding and interaction of these sPLA2 with the intact human erythrocyte membrane. In this way, the role of the lysine in the so-called Interface recognition site of the sPLA2 could be selectively determined. Also, the affinity of sPLA2 for surfaces with different net charges will be characterized.

### Research Experience

2019-Present Research Assistant (mentor, Dr. Orestes Quesada)

2018-2019 Research Assistant (mentor, Dr. Dipak K. Banerjee)

### Other Research Activities

2019 ÄKTA PURE Protein Purification Workshop

### Honors

2018 American Society for Biochemistry and Molecular Biology (ASBMB)

2019 National Society for Leadership and Success (NSLS)

2019 National Neuroscience Student Association (NNSA)

### Presentations at Local Meetings

### Presentations at National Meetings

### Publications