

## **Curriculum Vitae**

Ernesto G. Cabezas-Bou, BS.

### **Contact Information**

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### **Education**

- University of Puerto Rico, Rio Piedras Campus, San Juan, PR, 2015-present Ph.D. Intercampus Program in Biology/Neuroscience Track
- University of Puerto Rico, Rio Piedras Campus, San Juan, PR, 2010-2015 B.A. in Cellular & Molecular Biology, *Magna Cum Laude*
- Academia Superior Santo Tomás de Aquino, Bayamón, PR, 2006-2010

### **Awards and Honors**

- Honor Roll Dean's List (Univ. of Puerto Rico, Rio Piedras Campus) 2011-15.
- Fellowship - National Science Foundation, Undergraduate Research Mentoring (NSF-URM), 2013-15.
- Research Fellowship - Puerto Rico Louis Stokes - Alliance for Minority Participation (PRLS-AMP), 2014-15.
- Research Fellowship - National Institute of Health (NIH) - Centers of Biomedical Research Excellence (COBRE), 2015-2017.
- Award to attend - Marine Biological Laboratories (MBL) – Neural Systems & Behavior summer course, Amount: \$10,254 (for tuition, room and board), summer 2017.
- Post Course Research Award – Neural Systems & Behavior Post Course research to publish, Amount: \$5,000 (for tuition, room and board), Dr. Daniel Colón-Ramos Laboratory, Yale University, September 3 – November 6, 2017.
- Graduate Fellowship - Research Initiative for Scientific Enhancement (RISE) at University of Puerto Rico-Rio Piedras Campus, PhD Mentoring Program, 2017-19.
- First Place Award - Graduate Poster Session - *C. elegans* Neuro Topic Meeting, Madison, Wisconsin - June 2018.
- Graduate Fellowship – Howard Hughes Medical Institute (HHMI) Gilliam Fellowship – (150,000/3 years) – June 2019- present.
- Predoctoral Training Grant - NIH-NINDS, NRSA Diversity F31 (Deferred) – July 2019.

### **Publications**

- **Cabezas-Bou Ernesto**, De León-Arbucias Jeidiel, Matos-Vergara Nikol, Álvarez-Bagnarol Yocasta, Ortega-Guzmán Jesús, Narváez-Pérez Karla, Cruz-Bermúdez Nelson D., and Díaz-Ríos Manuel. December 2016, *A survey of energy drinks consumption patterns among college students at a mostly Hispanic university*, Journal of Caffeine Research, Vol. 6, No. 4: 154-162.
- Acevedo J, Santana-Almansa A, Matos-Vergara N, Marrero-Cordero LR, **Cabezas-Bou E**, Díaz-Ríos M. February 2016, *Caffeine stimulates locomotor activity in the mammalian spinal cord via adenosine A1 receptor-dopamine D1 receptor interaction and PKA-dependent mechanisms*, Journal of Neuropharmacology, 101:490-505.

## **Research and/or Academic Experience**

Doctoral Courses: UPR-RP, Department of Biology, (Research Advisor: Dr. Manuel Díaz-Ríos).

Doctoral Research: Yale University, School of Medicine, (Co-advisor: Dr. Daniel Colón-Ramos).

- Identification and characterization of the thoracic neural circuits in the mouse spinal cord (past, in progress at UPR)
- Research Training - Marine Biological Laboratories (MBL) – **Neural Systems & Behavior summer course**, summer 2017 (accepted)
- Characterizing calcium activity of single AIY interneurons in freely moving *C. elegans* navigating a thermal gradient (**actual, in progress at Yale University**)

## **Undergraduate Research: UPR-RP, (Research Advisor: Dr. Manuel Díaz-Ríos).**

- Society for Neuroscience Annual Conference, Neurobiology of Disease Workshop: Recovery After Stroke, 2014, Washington, DC.
- The role of sensory feedback during fictive locomotion in the mouse spinal cord. 2014, Dr. Díaz-Ríos Laboratory.
- Caffeine stimulates locomotor activity in the mammalian spinal cord via adenosine A1 receptor-dopamine D1 receptor interaction and PKA-dependent mechanisms. 2013, Dr. Díaz-Ríos Laboratory.
- A survey of energy drinks consumption patterns among college students at a mostly Hispanic university. 2012, Dr. Díaz-Ríos Laboratory.

## **Research Interests**

- Sensory-motor Integration (Sensory integration & behavior)
- Motor System (Central Pattern Generators)
- Neural Circuits & Synaptic Connectivity (Network Mapping)
- Neuropharmacology (Drug effects & Interactions)
- Biotechnology (Neural Engineering)

## **Presentations**

- Cabezas-Bou E, Díaz-Ríos M. Identification and characterization of the thoracic neural circuits in the mouse spinal cord. 2016. COBRE Annual Retreat, Hotel El Convento, Old San Juan, Puerto Rico.
- Cabezas-Bou E, Díaz-Ríos M. Identification and characterization of the thoracic neural circuits in the mouse spinal cord. 2016. Society for Neuroscience Annual Conference, San Diego, California.
- Cabezas-Bou E, Díaz-Ríos M. Identification and characterization of the thoracic neural circuits in the mouse spinal cord. 2016. Puerto Rico Neuroscience Conference, University of Puerto Rico-Rio Piedras Campus, Puerto Rico.
- Cabezas-Bou E, Díaz-Ríos M. Identification and characterization of the thoracic neural circuits in the mouse spinal cord. 2017. COBRE Annual Retreat, Hotel El Convento, Old San Juan, Puerto Rico.

## **Outreach and/or Community Service**

- Haiti volunteer for Health Clinics, Iniciativas de Paz, 2011
- Assistance to homeless in the night, Rondas Nocturnas with Iniciativa Comunitaria, 2012-
- Puerto Rico Chapter of the Society for Neuroscience, **Vice-President & Outreach Organizer**, 2014-2015
- Explore Your Brain; presentation to public & private schools of San Juan, Brain Awareness Week, 2015
- Science fair mentor for high school students, First place award in Academia Marista, 2015
- Institute of Neurobiology Research Tour coordinator, for Escuela de Artes Plásticas, Academia José & Biology students from UPR-RP, 2015-2016
- Neuroscience 101: Open your mind to research; **Main Presenter**, for AMSA Chapter of Univ. Inter Metro, 2016
- Explore your brain at La SanSe, Neuroscience introduction to all public, Institute of Neurobiology, Old San Juan, 2017
- Neurophysiology Introduction; **Main Presenter**, for Neuropsychology class at Univ. Pontifical Catholic (Ponce, PR), 2017
- Neurophysiology of our Brain: Receptors & Pathways; **Main Presenter**, for Mental Health Week by AMSA Chapter at Univ. Inter Metro, 2017
- Food and Basic Needs activity for homeless, Las Duchas de La Perla, Old San Juan, 2017
- **Neuroboricuas** Leader and Trainer, public schools in San Juan & University of Puerto Rico-Medical Sciences Campus (now impacting all Puerto Rico), 2017
- **Yale for Puerto Rico**, team efforts to rescue Puerto Rico Post-Hurricanes Irma & Maria, 2017-present.

## **Extracurricular Activities**

- Representative of the Student's Council for the General Student Council, General Studies Faculty, Univ. of Puerto Rico, Rio Piedras campus, San Juan, PR, 2010-2011
- President of the Student's Council, General Studies Faculty, Univ. of Puerto Rico, Rio Piedras campus, San Juan, PR, 2011-2012
- Student Representative on the Committee for the election of the Dean of the General Studies Faculty, Univ. of Puerto Rico, Rio Piedras campus, San Juan, PR, 2011-2012
- Vice-President, Biology Graduate Student Association, Univ. of Puerto Rico, Rio Piedras campus, San Juan, PR, 2016-2017