

# Jean C. Caraballo León

## A. PERSONAL INFORMATION

**Name:** Jean C. Caraballo-León  
**Affiliation:** University of Puerto Rico – Mayagüez Campus  
**E-mail:** jean.caraballo@upr.edu

## B. EDUCATIONAL BACKGROUND

<b>Ph.D. in Bioengineering</b> University of Puerto Rico, Mayagüez Campus (UPRM)	<b>August 2015 – Present</b> Mayagüez, PR
<b>Bachelor of Science in Chemical Engineering</b> University of Puerto Rico, Mayagüez Campus (UPRM)	<b>June 12<sup>th</sup>, 2015</b> Mayagüez, PR

## C. RESEARCH AND WORK EXPERIENCE

<b>Graduate Research Assistant</b> Dr. P. Ortiz-Bermúdez's Lab at the UPRM	<b>August '15 - Present</b> Mayagüez, PR
<b>Summer Undergraduate Research Assistant</b> Dr. P. Ortiz-Bermúdez's Lab at the UPRM	<b>Summer '14</b> Mayagüez, PR
<b>Undergraduate Research Assistant</b> Dr. P. Ortiz-Bermúdez's Lab at the UPRM	<b>January '13 – May '15</b> Mayagüez, PR
<b>English Tutor</b> University of Puerto Rico, Bayamón Campus	<b>August '11 - May '12</b> Bayamón, PR

## D. PUBLICATIONS

- Peer-Reviewed Proceeding** **November 2018**  
**5to Congreso Internacional de Ingeniería Química Biotecnológica y Alimentaria en Cuba**  
*Identificación, aislamiento y mitigación de hongos fitopatógenos en Cajanus Cajan en Puerto Rico*  
Patricia Ortiz Bermúdez, Christopher Rivera Torres, Jean C. Caraballo León, Merari Feliciano Rivera,  
Lydia Rivera Vargas.
- PLOS | ONE** **March 2016**  
*Hydrophobicity of antifungal  $\beta$ -peptides is associated with their cytotoxic effect on in vitro human colon Caco-2 and liver HepG2 cells* DOI: [10.1371/journal.pone.0149271](https://doi.org/10.1371/journal.pone.0149271)  
Camilo Mora-Navarro, Janet Méndez-Vega, Jean Caraballo-León, Myung-ryul Lee, Sean Palecek,  
Madeline Torres-Lugo, and Patricia Ortiz-Bermúdez
- Journal of Peptide Science** **October 2015**  
*Synthetic antimicrobial  $\beta$ -peptide in dual-treatment with fluconazole or ketoconazole enhances the in vitro inhibition of*

*planktonic and biofilm Candida albicans* DOI: 10.1002/psc.2827

Camilo Mora-Navarro, Jean Caraballo-León, Madeline Torres-Lugo, Patricia Ortiz-Bermúdez

## E. PRESENTATIONS

1. **2<sup>nd</sup> Bioengineering Program Research Symposium** **December 2018**  
Oral Presentation: *Characterization of a Microscale Co-Culture Platform for the Analysis of Intercellular Signaling*
2. **2<sup>nd</sup> Annual Transformational Initiative for Graduate Education and Research (TIGER) Symposium,** **September 2018**  
Oral Presentation: *Application of a Microscale Co-Culture Platform for the Analysis of Intercellular Signaling*
3. **1<sup>st</sup> Bioengineering Program Research Symposium** **May 2018**  
Oral Presentation: *Razor-printed microdevices for the study of cell-cell interactions*
4. **1<sup>st</sup> Annual Transformational Initiative for Graduate Education and Research (TIGER) Symposium** **September 2017**  
Oral Presentation: *Microdevices for the study of cell-cell communication*
5. **38<sup>th</sup> American Chemical Society Senior Technical Meeting** **November 2014**  
Poster Presentation: *Dual-drug treatment of fluconazole with an antifungal beta-peptide results in a better long-term effect against Candida albicans*
6. **University of Wisconsin-Madison Summer Research Opportunities Program (SROP) End of Summer Session, Poster Presentation** **July 2014**  
Poster Presentation: *Biomimicry of Natural Antifungal Peptides*
7. **University of Wisconsin-Madison Summer Research Opportunities Program (SROP)** **June 2014**  
Oral Presentation: *Biomimetics: Finding new antimicrobial and antifungal agents*
8. **37<sup>th</sup> American Chemical Society Senior Technical Meeting** **November 2013**  
Poster Presentation: *Elucidating the mechanism of action of beta-peptides: Characterization of the beta-peptide resistant phenotype of mutant  $\Delta$ srn2 in Saccharomyces cerevisiae and the effect of osmotic and oxidative stress*

## F. AWARDS, HONORS AND FELLOWSHIPS

1. **TIGER Graduate Research Fellowship (GRF)** **2015 – Present**  
University of Puerto Rico, Mayagüez Campus Mayagüez, PR
2. **TIGER Extramural Research Experience Award (EREA)** **Summer 2016**  
University of Puerto Rico, Mayagüez Campus Mayagüez, PR
3. **RISE-2-BEST Program (NIH-R25GM088023)** **August '13 – June '15**  
University of Puerto Rico, Mayagüez Campus Mayagüez, PR

## G. OUTREACH AND VOLUNTEER ACTIVITIES

1. **Graduate Advisor to iGEM UPRM Team**  
University of Puerto Rico, Mayagüez Campus **September 2018 – Present**  
Mayagüez, PR
  
2. **SpectRUM UPRM Vice-President and Educational Activities Director**  
University of Puerto Rico, Mayagüez Campus **Nov 2017-August 2018**  
Mayagüez, PR
  
3. **USDA NIFA Outreach at Experimental Station in Isabela, PR**  
Experimental Agricultural Station **Spring '15**  
Isabela, PR
  
4. **USDA NIFA High School Visits**  
High Schools in Western PR **Spring '13, '14, '15**  
Western PR
  
5. **NanoDays**  
Mayagüez Mall **Spring '13, '14, '15**  
Mayagüez, PR