

# Tania Ramos-Santiago

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**Objective:** In the quest to master skills based on research, maintain an academic background and learn new techniques to achieve a Ph.D. in the biomedical field.

## Academic experience:

August 2017-present      University of Puerto Rico, Mayaguez Campus  
Ph.D. candidate  
Bioengineering Department

August 2013-2017      University of Puerto Rico, Rio Piedras Campus  
Undergraduate Student  
Bachelor in Science: Chemistry Major  
Graduation date: May 2017

May 2013      University High School, University of Puerto Rico, Rio Piedras PR  
High School Diploma, High Honors

## Research experience:

August 2017-present      Research project: "Study of the transport mechanism of nanoparticles in ovarian cancer using 3D cell spheroids co-culture"  
Nanotechnology Center for Biomedical, Environmental and Sustainability Applications-Phase II (CREST II)  
Department of Bioengineering, University of Puerto Rico Mayaguez, PR  
Mentor: Madeline Torres-Lugo, PhD.

August 2016-June 2017      Research project: "Encapsulation of phospholipase A<sub>2</sub> (PLA<sub>2</sub>) as a possible cancer therapeutic tool"  
Maximizing Access to Research Careers (MARC)  
Department of Chemistry, University of Puerto Rico Rio Piedras, PR  
Mentor: Orestes Quesada, PhD.

May 2016-August 2016      Research project: "Determination of viral re-expression of  $\alpha 4\beta 2$  nicotinic receptors in the hippocampus of  $\alpha 4$  knockout mice"  
Summer Multicultural Access to Research Training (SMART)  
Department of Integrative Physiology, Institute of Behavioral Genetics, University of Colorado, Boulder, USA  
Mentor: Jerry Stitzel, PhD.

August 2015-May 2016	Research project: "Interaction of secreted phospholipase A <sub>2</sub> with biological membranes" Maximizing Access to Research Careers (MARC) Department of Chemistry, University of Puerto Rico, Rio Piedras, PR Mentor: Reginald Morales, PhD.
June 2015-August 2015	Research project: "Development of optogenetic therapy in large animal models of retinal degeneration" Summer Undergraduate Internship Program (SUIP) Department of Molecular Ophthalmology, University of Pennsylvania, Philadelphia, USA Mentor: Jean Bennett, MD, PhD.
July 2014-May 2015	Research project: " <i>Naja melanoleuca</i> PLA <sub>2</sub> 's: A comparative study of structure vs. activity" Research Initiative for Scientific Enhancement (RISE) Department of Chemistry, University of Puerto Rico, Rio Piedras, PR Mentor: Reginald Morales, PhD.
June 2011-August 2011	Research project: "Synthesis of ZnO nanosheets assisted by Microwave applications of UV Photodetectors" Center for Advanced Nanoscale Materials (CANM) University of Puerto Rico, Rio Piedras, PR Mentor: Ram Katiyar, PhD.

#### **Awards and honors:**

August 2017-present	Nanotechnology Center for Biomedical, Environmental and Sustainability Applications-Phase II (CREST II) participant
October 2016	Travel award from the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) Symposium
August 2015-May 2017	Maximizing Access to Research Careers (MARC) participant
July 2014-May 2015	Research Initiative for Scientific Enhancement (RISE) participant
2013- present	University of Puerto Rico Dean's List

#### **Oral and Poster presentations:**

August 2017	MARC Jr. Thesis: "Encapsulation of phospholipase A <sub>2</sub> (PLA <sub>2</sub> ) as a possible cancer therapeutic tool"
November 2016	Poster Presentation: "Determination of viral re-expression of $\alpha 4\beta 2$ nicotinic receptors in the hippocampus of $\alpha 4$ knockout mice" Annual Biomedical Research Conference for Minority Students (ABRCMS)

October 2016	Poster Presentation: "Determination of viral re-expression of $\alpha 4\beta 2$ nicotinic receptors in the hippocampus of $\alpha 4$ knockout mice" Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) Symposium
August 2016	Oral Presentation: "Determination of viral re-expression of $\alpha 4\beta 2$ nicotinic receptors in the hippocampus of $\alpha 4$ knockout mice" Leadership Alliance National Symposium Stanford, Connecticut, USA
August 2016	Poster Presentation: "Determination of viral re-expression of $\alpha 4\beta 2$ nicotinic receptors in the hippocampus of $\alpha 4$ knockout mice" Summer Multicultural Access to Research Training (SMART) Symposium University of Colorado, Boulder, USA
January 2016	Poster Presentation: "Development of optogenetic therapy in large animal models of retinal degeneration" Maximizing Access to Research Careers (MARC) Symposium University of Puerto Rico, Rio Piedras, PR
November 2015	Poster Presentation: "Development of optogenetic therapy in large animal models of retinal degeneration" Annual Biomedical Research Conference for Minority Students (ABRCMS) Seattle, Washington, USA
August 2015	Oral Presentation: "Development of optogenetic therapy in large animal models of retinal degeneration" Leadership Alliance National Symposium Stanford, Connecticut, USA
August 2015	Poster Presentation: "Development of optogenetic therapy in large animal models of retinal degeneration" Summer Undergraduate Internship Program (SUIP) Symposium University of Pennsylvania, Philadelphia, USA
<b>Associations:</b>	
2010-2013	National Honor Society
2014-present	American Chemical Society