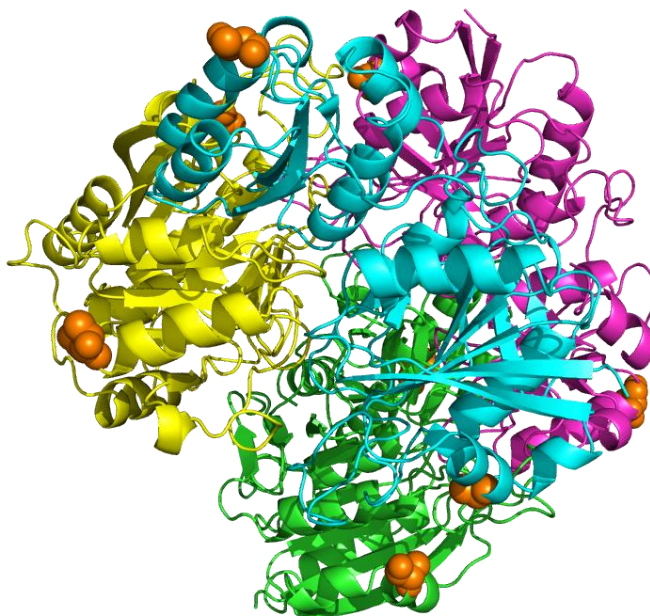


Josell Ramirez-Paz



Current Status

Ph.D. Student
Department of Chemistry, UPR-RP

Email

josellyaima@hotmail.com

Education

2008-2012 UMET, B.S. Sciences (Chemistry)
2012-Present UPR-Rio Piedras
2019-May Expected graduation Ph.D. Chemistry

Research Interest

I currently work in the laboratory of Dr. Griebenow in the field of protein conjugation. At the present, we study the effects of PEGylation on the activity, affinity and structure of proteins. We apply a site-specific strategy to PEGylate a protein which is utilized in the treatment of leukemia, with the purpose of modulating its resistant without losing functionality.

Research Experience

2010 UMET-Cupey, Differential Mathematics, mentor Ph.D. Martin Engman

2012-Present UPR-Rio Piedras, Protein expression, purification and conjugation, mentor
Ph.D. Kai Griebenow

Research Activities

Poster Presentations

J. Ramirez-Paz, M. Saxena, L.J. Delinois, F.M. Joaquín-Ovalle, and K. Griebenow. *Optimized expression and purification of recombinant L-asparaginase II: Tetramer stabilization by site-specific covalent cross-linking of its subunits*. Experimental Biology Annual Meeting in San Diego, CA, USA, April 6th, 2016.

J. Ramirez-Paz, M. Saxena, L.J. Delinois, F.M. Joaquín-Ovalle, V.A. Rojas-Nieves, and K. Griebenow. *Covalent crosslinking of L-asparaginase II subunits by site-specific PEGylation*. Experimental Biology Annual Meeting in Chicago, IL, USA, April 25th, 2017.

J. Ramirez-Paz, L.J. Delinois, F.M. Joaquín-Ovalle, and K. Griebenow. *Effect of site-specific PEGylation of L-asparaginase II subunits on specific activity*. PEGS: Essential Protein Engineering Summit in Boston, MA, USA, May 1-5th, 2017.

J. Ramirez-Paz and K. Griebenow. *Site-specific PEGylation of asparaginase subunits increased size and enzymatic activity*. Biophysical Society Annual Meeting in San Francisco, CA, USA, February 18th, 2018.

Publications

M. Saxena, R.K. Sharma, **J. Ramirez-Paz**, A.D. Tinoco, and K. Griebenow. Purification and characterization of a cytochrome c with novel caspase-3 activation activity from the pathogenic fungus *Rhizopus arrhizus*. (2015) *BMC Biochem* **16(21)**, 1-9. **DOI:** 10.1186/s12858-015-0050-9

J. Ramirez-Paz, B.M. Ortiz-Andrade, K. Griebenow, and L. Díaz-Vázquez. Show yourself, asparaginase: An enzymatic reaction explained through a hands-on interactive activity. (2017) *J Chem Educ*, Article ASAP published on March 22. **DOI:** 10.1021/acs.jchemed.6b00612