

Biographical Sketch

Jessika Pazol-Ramos

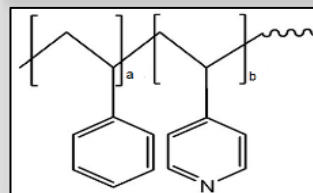
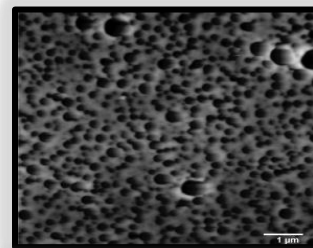
Current Status

PhD Candidate
Dept. of Chemistry, UPR Rio Piedras

Email: jessikapazol@yahoo.com

Education

2004 BS Chemical Engineering, UPR-RUM
2010 Water Treatment, UPPR-Hato Rey
2015 - present PhD Chemistry, UPR-RP



Current Research Interests:

In this research project we aim to explore new avenues to develop reactive membranes for water purification applications that can eliminate toxic substances, such as endotoxins from bacterial origin, also known as lipopolysaccharide (LPS). In pursuit of that vision, the investigation foster path-breaking scientific discovery via working with nano bio reactive membrane separation sciences that can inhibit LPS content in the manufacture of biomedical devices and injectables.

Research Experience

2001 Princeton University internship, Analytical Chemistry, (mentor, Dr. Robert K. Prud'homme)
2002 NASA LERCIP internship, Organic chemistry, (mentor, Dr. Javier Santos)
2002-2003 UPR-RUM, Environmental chemistry, (mentor: Prof. Federico Padro)
2008 UPPR-Hato Rey, Water Treatment, (mentor: Dr. Roger Malaver)
2015 – Present UPR-RP, Analytical Chemistry, (mentor, Dr. Eduardo Nicolau)

Other Research Activities

2017 Annual meeting PRCHEM, San Juan, Puerto Rico
2017 PARADIM Cornell Summer School, Ithaca, New York
2017 Biology Design Symposium, Vienna, Austria
2016 Annual meeting AiCHE, San Francisco, California
2005 Annual meeting COLAEIQ, San Jose, Costa Rica
2003 Annual meeting AiCHE, San Francisco, California

Honors

2017 Research Initiative for Scientific Enhancement (RISE) Fellowship
2017 Golden Key International Honour Society
2015 PRASCD Certificate
2010 WWTP Protection Project, Lilly del Caribe Recognition Certificate
2008 Pharmaceutical Water Systems Monitoring Certificate
2004 Magna Cum Laude, UPR RUM
2003 Gen. Carl A. Spaatz Award #1475
2003 British Petroleum Award
2002 IPR – Astra Zeneca Pharmaceuticals, Inc. Award
2000 Gates Millennium Scholars, Bill and Melinda Gates Foundation

Presentations at Local Meetings

Pazol, J., Torres, A., Nicolau, E. Improving the packing density of an enzyme block copolymer conjugate to design water purification reactive nano membranes, Lilly Academy Poster Session, San Juan, PR, March 20, 2017.

Presentations at International Meetings

Pazol, J., Torres, A., Nicolau, E. Enzyme immobilization into di block-copolymer films interface to design water purification bio reactive membranes, Design Biology Symposium Poster Session, Vienna, Austria, June 7-9, 2017.

Outreach Activities

2017 Científicos en tu Escuela, Esc. Pedro Falú, Rio Grande, PR

2010 Lilly del Caribe Schools Outreach, Carolina, PR

2000 Science on Wheels, UPR RUM, Mayaguez, PR