



KEVIN RIVERA



KEVIN.E.RIVERA@UCONN.EDU



ORGANIZATIONS

American Chemical Society

Member

HOBBIES

Mentoring, Tutoring, Cooking

RESEARCH EXPERIENCE

DEPARTMENT OF LIBERAL ARTS AND SCIENCES-CHEMISTRY
DR. JESSICA ROUGE

His research project, under Dr. Rouge, focuses on the formation of micelle to encapsulate drugs and/or genes. Although many micelle formulations currently exist, this particular one is unique because it incorporates peptides as a biodegradable and sequence-specific trigger for controlling the release of cargo molecules. More specifically, this project addresses the delivery of hydrophilic molecules, such as DNA. The delivery of hydrophilic molecules, such as DNA, has been a challenge due to poor entrapment efficiency and release control. The proposed strategy is to form a reverse micelle: hydrophobic outside and hydrophilic inside. This allows the molecule to pass directly through the cell membrane, making it an efficient delivery system for applications such as drug and gene delivery.

EDUCATION

PH.D. IN CHEMISTRY

University of Connecticut

Anticipated Graduation:

B.S CHEMISTRY

University of Puerto Rico, Rio Piedras

PRESENTATIONS/PUBLICATIONS

- IFN Poster Presentation, "Biocompatible-Tailored-Nanocrystals-Drug Nanocarriers for Colorectal Cancer Treatment", Poster, March 31, 2016.
- JTM/PRISM 2016, "Biocompatible-Tailored-Nanocrystals-Drug Nanocarriers for Colorectal Cancer Treatment", Presentation, March 5, 2016.

CONFERENCES