University of Puerto Rico Mayaguez Campus Chemistry Department Departmental Seminar

## Friday, November 13<sup>th</sup>, 2015 Q 123 – Abbot 11:30 AM

by

## Dr. Celina Casse Department of Engineering, Science and Materials

## Expression of genetic markers during the differentiation of stem cells into bone cells.

This talk will focus on the study of the expression of genetic markers during the differentiation of stem cells into osteoblasts (osteogenesis) through Real-Time Quantitative Retrotranscription-PCR (QT-PCR), an extremely sensitive method for assessing gene expression. The QT-PCR technique will be applied to evaluate the osteogenic properties of various metallic-based biomimetic nano-scaffolds that could be used as implant material candidates for regenerating a defective bone.