Gricel Ruiz Ocasio

PO BOX 20000 AGUADILLA, PR 00605 gruiz@aguadilla.inter.edu (787)891-0925 EXT 2510

SKILLS:

EDUCATION SKILLS:
Curriculum & assessment plan development. Course development for the Biotechnology, Microbiology and Biology undergraduate programs; Certified in online courses design; Curriculum Review for the Biotechnology BS; Syllabus development; and Proficient in Microsoft Office

Molecular Techniques:
PCR, RT-PCR, qPCR, Primer Design, Agarose Gel, Vector Construction, Sequencing; Southern and Northern Blots; Bacterial, and Plant Cloning, Electroporation, Particle Bombardment, Plant Tissue Culture, Animal Tissue Culture; SDS-PAGE, Western, ELISA, Protein Purification And Quantification, Low Pressure Chromatography; Phylogenetic Analysis, and Phylogenetic Tree.

Microbiology Techniques:
Gram, Spore, Capsular, Flagella, and Acid-Fast Staining; Culture Preparation, Media and Solution Preparation; Bacterial Population Counts; Bacteria Identification; Sterilization Method; Evaluation of Antiseptic; Environmental Sampling and Monitoring (surface, soil, air, and water sampling) QA and QC. (S.O.P and C.G.M.P).

Languages
Proficient in Spanish and English

WORK EXPERIENCE

- 2016 - Present Inter American University of Puerto Rico Aguadilla, PR
  Activitiy & Academic Support Director at Expanding Science and Technology Opportunities in Puerto Rico - Title V
- 2007 - Present Inter American University of Puerto Rico Aguadilla, PR
  Assistant Professor
  Courses Developed: Molecular Biotechnology, Recombinant DNA Technology, Tissue Culture, Molecular Biotechnology, Research Method, Protein Analysis and Purification, Operational Biotechnology, Microbial Ecology, Microbial Physiology, etc.
  Biotechnology Curriculum Reveiw Committee
  Science and Technology Deparment Assessment Committee
- 2002- 2007 Inter American University of Puerto Rico Aguadilla, PR
  Part-time Professor
- 1999-2002 University of Central Florida Orlando, FL
  Graduate Research Assistant
  Conducted research in biological systems (plants and bacteria) for the expression of biopharmaceuticals (the expression of the human IGF-1 protein). These studies include the genetic manipulation of plant and bacteria and the complete characterization of the target protein at the molecular and biochemical levels. (UCF, Daniell Lab. for Molecular Biology)

EDUCATION

- 2007- Present University of Turabo Gurabo, PR **PhDc**
  Ph.D Environmental Science (Concentration in Biology)
- 1999-2002 University of Central Florida Orlando, FL **M.S**
  Molecular Biology and Microbiology
- 1995-1999 University of Puerto Rico Mayagüez, PR **B.S.**
  Industrial Microbiology

PUBLICATION

- G. Ruiz-Ocasio, J. R. Pérez-Jiménez. *cotE*, a Reliable Biomarker for the *Bacilli* (Accepted, February 15, 2013, the 113th General Meeting, at the Denver Convention, from May 19 through May 22, 2013 in Denver, Colorado.)
- Oral presentation: Molecular Evolution of Outer Spore Coat Protein E Gene 5th Meeting: Frontiers on Environmental Microbiology, March 16, 2012 in Universidad del Turabo.
- Daniell H, Ruiz G, Denes B, Sandberg L, and Langridge W. 2009. Optimization of codon composition and regulatory elements for expression of the human insulin like growth factor-1 in transgenic tobacco chloroplasts and evaluation of structure and function. *BMC Biotechnology*. 9:33. http://www.biomedcentral.com/1472-6750/9/33