#### Félix E. Rivera-Mariani, PhD

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Direct: ; email: frivera@ularkin.org

websites: www.friveram.com; https://github.com/friveramariani

lab website: https://www.riplrt.com

Mark Eventiones	lab website: https://www.riplrt.com
Work Experience 2017 – Present	College of Biomedical Sciences, Larkin University, Miami, FL Assistant Professor and Academic Coordinator
2014 – 2017	Miami-Dade College, Miami, FL Adjunct Professor (Biology, Microbiology, Biochemistry)
2013 - Present	Consultant Aerobiology, Immunology, Computational Biological/Non-Biological Data Analysis
2012 – 2015	American Journal Experts Developmental Editor
2010 – 2013	Johns Hopkins Bloomberg School of Public Health, Baltimore, MD Postdoctoral Fellow (NIH T32 Training Program)
Education 2010 – 2013	Johns Hopkins Bloomberg School of Public Health, Baltimore, MD Postdoctoral Fellow (T32) in Environmental Health Sciences (mentors: Patrick Breysse, PhD, Thomas Hartung, PhD, MD)
2004 – 2010	School of Medicine, University of Puerto Rico, San Juan, PR PhD in Microbiology (mentor: Benjamín Bolaños, PhD)
2001	Southeastern Louisiana University, Hammond, La

## **Additional Training**

2016

2019 (current) PRIDE Scholar (https://pridecc.wustl.edu)

Advanced Respiratory Research for Equity (AIRE) under the AZ – PRIDE (University

of Arizona): https://diversity.medicine.arizona.edu/content/az-pride-program

2016 - 2017 **Johns Hopkins Universit**y (on ww.coursera.org)

Mastering Software Development in R (5-courses series)

University of California at San Diego (on www.coursera.org)

BS in Biology, minor in Chemistry; Baseball Athletic Scholarship

• Bioinformatics Specialization (7-courses series)

Johns Hopkins University (on www.coursera.org)

- Data Science Specialization (10-courses series)
- Genomic Data Science Specialization (8-courses series)
- Executive Data Science Specialization (5-courses series)

Icahn School of Medicine at Mount Sinai (on www.coursera.org)

System Biology and Biotechnology Specialization (6-courses series)

- 2015 2016 Johns Hopkins School of Public Health (on www.coursera.org)
  - Statistical Reasoning for Public Health I: Estimation, Interference, Interpretation
  - Statistical Reasoning for Public Health II: Regression Models

2013 – 2014 American Society for Microbiology, Washington, DC

• Science Teaching Fellowship

#### **Publications**

- Rivera-Mariani FE, Almaguer M, Jesus Aira M, Bolaños-Rosero B. Comparison of atmospheric fungal spore concentrations between two main cities in the Caribbean basin. *Puerto Rico Health Sciences Journal*. **Submitted**.
- **Rivera-Mariani FE**, Srour H, Romenko F, Bellinger S, and Stateman A. Profile of dendritic cells surface biomarkers in nasal and oral mucosa of human subjects reactive to grass pollen and house dust mites. *J Immunol.* 2019. 202 (1 Suppl) 55.18.
- Srour HH, Baguley JK, Bellinger SV, Stateman AJ, Rivera-Mariani FE. Comparing the magnitude of meteorological variables and air pollutants as contributing factors of atopic dermatitis symptoms. J Allergy Clin Immunol. 2019. 143(S2). AB235.
- Stateman AJ, Srour HH, Baguley JK, Bellinger SV, Rivera-Mariani FE. Comparison between PM2.5 levels on east coast and state of California in relationship to asthma. J Allergy Clin Immunol. 2019. 143(S2). AB24.
- Bellinger SV, Stateman AJ, Srour HH, Baguley JK, RIvera-Mariani FE. Evaluating differences in prevalence of food allergies between two geographic regions: Australia and US. *J Allergy Clin Immunol*. 2019. 143(S2). AB268.
- Baguley JK, Bellinger SV, Srour HH, Stateman AJ, Rivera-Mariani FE. Gender difference in dendritic cell population in nasal and oral cavity between allergen and non-allergic subjects. *J Allergy Clin Immunol*. 2019. 143(S2). AB228.
- Rivera-Mariani FE, Srour HH, Baguley JK, Bellinger SV, Stateman AJ, Bolaños-Rosero B. Relationship
  of serological reactivity to cytoplasmic extracts from spores of *Ganoderma applanatum* and commercial
  extracts of indoor, mitosporic fungi, and farm animal allergens among Puerto Rican subjects. *J Allergy*Clin Immunol. 2019. 143(S2). AB301
- Gaspar PM, Schreb CA, **Rivera-Mariani FE**. Hydration Status of Assisted Living Memory Care Residents. *J Gerontogical Nursing*. 2019. 45(4): 21-29.
- Srour H, Fomenko R, Baguley J, Bellinger S, Jordan A, Sutton J, Santana M, Marull A, Abdalhuk M, Rivera-Mariani FE. Pilot study of publicly available data to evaluate the relationship between forest fires and emergency department visits due to asthma in the state of California [version 2; peer review: 1 approved]. F1000Research 2019, 7:1232
  - Abdalhuk M, Jordan A, Wagimin R, Stamitoles C, Bellinger S, Baguley J, Srour H, Fomenko R, Sutton J, Santana M, Marull A, **Rivera-Mariani FE**. Evaluating the Association of Race, Ethnicity, and Food Allergens in the Development of Childhood Asthma: Re-Analysis of Publicly-Available Retrospective Cross-Sectional Cohort Data. *F1000Research*. 2018. 7:1209.

- Rivera-Mariani FE and Bolaños-Rosero B. Principal Component Analysis to Evaluate Relationships in Reactivity to Commercial Extracts and Uncharacterized Fungi among Asthmatic and Allergic Rhinitis Subjects. J Immunol. 2018 (1 Supp, 44.2).
- González de Leon J, Gonález Méndez R., Cadilla Vázquez CL, Rivera-Mariani FE, Bolaños-Rosero, B. Serological Reactivity and Identification of Immunoglobulin E – Binding Proteins of Xerophilic Fungus Aspergillus penicilloides Crude Mycelial Mat Extract in Puerto Rican Atopic Subjects. Int Arch Allergy Immunol. 2018. 175: 147-159.
- Vila-Herester F, Rivera-Mariani FE, Bolanos-Rosero B. Serological reactivity and IgE-binding polypeptides to Ganoderma applanatum Cruse Spore Cytoplasmic Extract in Puerto Rico Subjects. Int Arch Allergy Immunol. 2017; 172:139–149.
- Bose S, Rivera-Mariani FE, Chen R, Williams D, Aloe, Belli D, Breysse, PN, Diette G, Hansel N. Domestic exposure to endotoxin and respiratory morbidity in former smokers with COPD. *Indoor Air*. 2016. 26(5): 734-42.
- Vesper S, Choi H, Perzanowski P, Acosta LM, Divjan A, Bolaños-Rosero B, Rivera-Mariani FE, Chew GL. Comparison of mold populations in settled dust and dust mite allergens in mattress dust samples in the Puerto Rico Health Regions. *Int J Environ Health Research*. 2016. 26(2): 198-207.
- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, Rivera-Mariani FE, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Addendum to Evidence for the Detection of non-Endotoxin Pyrogens by the Whole Blood Monocyte Activation Test. *Altex*. 2014. 31 (4): 499.
- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, Rivera-Mariani FE, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Addendum to Evidence for the Detection of non-Endotoxin Pyrogens by the Whole Blood Monocyte Activation Test. *Altex*. 2014. 31 (2): 226.
- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, Rivera-Mariani FE, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Erratum to: Evidence for the Detection of non-Endotoxin pyrogens by the Whole Blood Monocyte activation test. *Altex*. 2013. 30 (3): 352.
- Rivera-Mariani FE, Vysyaraju K, Negherbon J, Levetin E, Horner WE, Hartung T, Breysse PN. Comparison of the interleukin-1β-inducing potency of allergenic spores from higher fungi (Basidiomycetes) in a cryopreserved human whole blood system. *International Archives of Allergy and Immunology*. 2013. 163 (2): 154-62.
- Rivera-Mariani FE. Cryopreserved human whole blood: a human-based in-vitro immunotoxicological system expanded into environmental health and medical mycology studies. Invited Special issue of ATLA. 2013. 41(6): 483-90.
- Hasiwa N, Daneshian M, Bruegger P, Fennrich S, Fleck S, Hochadel A, Hoffman S, Rivera-Mariani FE, Rockel C, Schindler S, Spreitzer I, Stoppelkamp S, Vysyaraju K, Hartung T. Evidence for the detection of non-endotoxin pyrogens (NEPS) by the whole blood monocyte activation test. *ALTEX*, 2013. 30(2): 169-208.

- **Rivera-Mariani FE**, Mihalic JN, Rule AM, Breysse PN. Immunodetection of airborne (1-3)-β-Dglucan-carrying particles with the Halogen immunoassay in occupational setting. *J Immunol Methods*. 2013. 388: 86-89.
- Rivera-Mariani FE, Matsui E, Breysse PN. Performance of the Halogen Immunoassay to Assess Airborne Mouse Allergen-Containing Particles in a Laboratory Animal Facility. *Journal of Exposure Science and Environmental Epidemiology*. 2012. 24 (1): 3-8.
- Rivera-Mariani FE, Vysyaraju K, Levetin E, Hartung T, Breysse PN. Determination of the Proinflammatory Potential of Spores from Different Basidiomycetes Species with a Human Whole Blood Assay. J Immunol. 2012; 188: AB55.13.
- **Rivera-Mariani FE** and Bolaños-Rosero B. Allergenicity of airborne basidiospores and ascospores: need for further studies. *Aerobiologia* 2012: 28(2): 83-97.
- Rivera-Mariani FE, Hartung T, Breysse PN. Evaluation of the Pro-inflammatory Activity of Basidiospores and Spore-bearing Tissue from the Mushroom Chlorophyllum molybdites using Human Whole Blood. J Allergy Clin Immunol. 2012; 129(2): AB18.
- Rivera-Mariani FE, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Skin Test Reactivity
  of Allergic Subjects to Basidiomycetes' Crude Extracts in a Tropical Environment. *Medical Mycology*.
  2011. 49(8): 887-91.
- Rivera-Mariani FE, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Sensitization to Airborne Ascospores, Basidiospores, and Fungal Fragments by Allergic Rhinitis and Asthmatic Subjects in San Juan, Puerto Rico. *International Archives of Allergy and Immunology*. 2011; 155(4): 322-34.
- Rivera-Mariani FE, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Prevalence of IgE Reactivities by Rhinitis and Asthmatic Patients to Airborne Particulate. *J Allergy Clin Immunol*. 2010; 125(2): AB80.
- Quintero E, Rivera-Mariani FE, and Bolaños-Rosero B. Analysis of Environmental Factors and Their Effects on Fungal Spores and Pollen in the Atmosphere of a Tropical Urban Area (San Juan, Puerto Rico). Aerobiologia. 2010; 26(2): 113-124.

## **Science Teaching and Mentoring Publications**

- Rivera-Mariani, FE. RNA-seq Data Analysis Workflow to Evaluate Differential Gene Expression between Fetus and Adult Brains from Publicly-Available Data as a Genomic Data Science Demonstration in an Upper Microbiology Course. Technical Report at Researchgate.com <a href="http://dx.doi.org/10.13140/RG.2.2.14868.09604">http://dx.doi.org/10.13140/RG.2.2.14868.09604</a>
- Rivera-Mariani, FE. Peer-Evaluations as an Intervention Tool to Identify Students' Misconceptions and Interpretation Errors in the Streak-Plate Method in an Introductory Microbiology Lab Course. 2016. Technical-Report at Researchgate.com. http://dx.doi.org/10.13140/RG.2.1.2693.5921
- Rivera-Mariani FE. Rethinking our Postdoctoral Training. Postdoctoral Journal. 2012; 2 (2): 27-29.

## **Presented Abstracts**

- Rivera-Mariani FE, Srour HH, Fomenko R, Maestre JP, Kinney K, Godoy-Vitorini F, Bolaños-Rosero B, Cavallin H. Pro-inflammatory potential of indoor dust collected from households in San Juan, PR in the aftermath of Hurricane Maria. Society of Toxicology Annual Meeting & ToxExpo 2019. Baltimore, MD. DOI: 10.7490/f1000research.1116637.1
- Rivera-Mariani FE, Levetin E, Hartung T, Breysse PN. Role of spores' surface area and endotoxin
  contamination in the proinflammatory potential of spores from allergenic basidiomycete fungi in a
  cryopreserved human whole blood system. Gordon Research Seminar/Conference Immunology to
  Fungal Infections. January 2013. Galveston, TX.
- Rivera-Mariani FE, Vysyaraju K, Negherbon J, Hartung T, Breysse PN, Hansel N. Assessment of the proinflammatory potential of indoor air particulate matter based on the cytokine release in a cryopreserved human whole blood system. *International Society for Exposure Science* Annual Meeting, October, 2012. Seattle, WA.
- **Rivera-Mariani FE**, Mihalic JN, Rule AM, Breysse PN. Immunodetection of (1-3)-β-D-glucan with the Halogen Immunoassay. Poster Presentation. *American Industrial Hygiene Association* Annual Meeting, June, 2012. Indianapolis, IN. **Best Poster in the Sampling and Laboratory Analysis Session**.
- Rivera-Mariani FE, Hartung T, Breysse PN. Evaluation of the Cooperative Proinflammatory Effect between Endotoxin and (1-3)-β-D-glucan with the *in-vitro* Pyrogen Test. Poster Presentation. Society of Toxicology Annual Meeting March, 2012, San Francisco, CA.
- Rivera-Mariani FE, Matsui E, Breysse PN. Immunodetection of Airborne Particulate Carrying Mouse Allergen. Poster Presentation. *International Society for Exposure Science* Annual Meeting, October, 2011. Baltimore, MD.
- Rivera-Mariani FE, Nazario-Jiménez S, López-Malpica F, and Bolaños-Rosero B. Airborne Ascospores and Basidiospores as Potential Allergens for Allergic Respiratory Diseases. Oral Presentation. International Association for Aerobiology 9<sup>th</sup> International Congress on Aerobiology, August, 2010. Buenos Aires, Argentina.
- Rivera-Mariani FE, Nazario-Jiménez S, and Bolaños-Rosero B. Prevalence of IgE Reactivities to Airborne Particulate by Asthmatic Subjects. Oral Presentation. *Pan-American Aerobiology Association* Annual Meeting, July, 2009. Kansas City, MO.
- Rivera-Mariani FE, Quintero E, and Bolaños-Rosero B. Fungal Spore in the Atmosphere of San Juan and Caguas: A Comparative Study. Oral presentation. *Pan-American Aerobiology Association* Annual meeting, June, 2007. Penn State University, Stage College, PA.
- Quintero E, Rivera-Mariani FE, and Bolaños-Rosero B. Fungal Spore and Pollen in the Atmosphere of San Juan. Poster presentation. *Pan-American Aerobiology Association* Annual Meeting, June 2007. Penn State University, Stage College, PA.

#### **Research Awards**

# 2019 <u>Title</u>: Linking Microbial, SVOC and Pro-Inflammatory Exposures in Homes to Childhood Asthma Severity: A Community Filter Forensics Approach

Project Number (and PI): HUD126513356 (PI Kerry Kinney

Amount Awarded: \$700,000

Role: Collaborator, Sub-Award Principal Investigator (\$76,931)

# 2018 <u>Title</u>: Taking a Breath after the Disaster: Homes, Molds and Health in Puerto Rico after Hurricane

Project Number (and PI): R21ES029762 (PI Humberto Cavallin)

Amount Awarded: \$408, 316

Role: Collaborator, Sub-Award Principal Investigator (\$15,500)

## 2013 Title: Genetic Susceptibility to Asthma and Indoor Air Pollution in Peru

Project Number (and PI): 3R01ES018845-04S1 (PI, Nadia Hansel)

Amount Awarded: \$410, 571

Role: Postdoctoral Collaborator (under Patrick Breysse, PhD, and Thomas Hartung, PhD)

# 2012 Ethical Consumer Association, London, UK

Award: Lush Prize Young Researcher Award

Amount: \$20,000

#### 2011 Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD

Award: David Leslie Swift Fund in Environmental Health Engineering

Amount: \$2,000

# 2010 International Association for Aerobiology, Buenos Aires, Argentina

Award: Young Aerobiologist Award

Amount: \$1000

#### Travel Awards

#### 2019 Minority Scientist Travel Award, San Diego, CA

American Association of Immunologists

## 2018 Early Career Faculty Travel Award, Austin, TX

American Association of Immunologists

#### 2013 Immunology of Fungal Infections, Gordon Conference, Galveston, TX

Carl Storm Underrepresented Minority Fellowship Travel Award

#### 2012 International Society for Exposure Science, Seattle, WA

New Researcher Travel Award

#### 2012 American Academy of Allergy, Asthma and Immunology, Orlando, FL

Domestic Fellows-in-Training Travel Award

## 2011 Federation of American Societies for Experimental Biology, Virginia Beach, VA.

Minority Access to Research Careers Travel Award

# 2010 American Academy of Allergy, Asthma and Immunology, New Orleans, LA

Fellow-in-Training Travel Award

- 2010 International Association for Aerobiology Meeting, Buenos Aires, Argentina Latin American Travel Award
- 2009 Pan American Aerobiology Association, Kansas City, MO Latin American Travel Award
- 2007 Pan American Aerobiology Association, State College, PA Lanzoni's Student Award

# **Conferences and Invited Talks**

- 2019 Annual Biomedical Research Conference for Minority Students, Anaheim, CA. <u>Accepted workshop session</u>: Deconvoluting disease biomarkers with computational tools. <u>Workshop Title</u>: Computational and system biology to identify biomarkers in environmental health studies: from indoor pollution to the aftermath of Hurricane Maria. **November 13 15, 2019**.
- University of Puerto Rico Ponce Campus. <u>Guest Lecture</u>. "The Interphase of biomedical sciences and data analytics: which one goes first?". Sponsored by the University of Puerto Rico Ponce Campus Research Initiative for Scientific Enhancement. **January 24, 2019**.
- AAAS Florida Biomedical Career Symposium. Jupiter, FL (Scripps Institute). <u>Panelist.</u> Science Education Careers. *January 29, 2018.*
- University of Puerto Rico Carolina Campus. Workshop. Image analysis in biological aciences (from western blot to data-driven decisions). June 2017.
- Math and Sciences Specialized High School Thomas Armstrong Toro. Ponce, PR. 2016 and 2017.
   Workshop. "Doing Science: From Start to Finish". January 2016 and 2017.
- 9<sup>th</sup> Annual NIH Career Symposium, Bethesda, Maryland. <u>Panelist.</u> Teaching-intensive careers. *May* 2016.
- Department of Microbiology, School of Medicine, University of Puerto Rico Medical Sciences Campus. San Juan. <u>Guest Lecture</u>. Immunological intervention to evaluate the human health effects of indoor and outdoor biological and non-biological airborne contaminants. *February 2015*.
- Department of Biology, University of Puerto Rico Bayamon Campus. Bayamon, PR. Guest <u>Lecture</u>. Immunological intervention to evaluate the human health effects of indoor and outdoor biological and non-biological airborne contaminants. *March 2015*.
- Department of Microbiology, College of Medical Sciences, Nova Southeastern University, Davie, FL. Guest Lecture. A Review of fungi relevant to dentistry. *August 2013*.
- National Postdoctoral Association 11<sup>th</sup> Annual Meeting. <u>Guest Lecture</u>. Postdoc diversity: solution for faculty diversity. Co-presenter with Dr. Jennifer Cohen and Dr. Cara Altimus. Charleston, SC. *March* 2013.
- Department of Biology of the College of Sciences and Technology, Southeastern Louisiana University, Hammond, LA. <u>Guest Lecture</u>. Allergenicity and proinflammatory potential of uncharacterized airborne fungi. *October 2012*.

2017

2017 – Present	American Association of University Professors
2012 – Present	Sigma Xi, The Scientific Research Society
2011 – Present	American Association of Immunologists
2011 - Present	Society of Toxicology
2010 - Present	American Association for the Advancement of Science
2009 - Present	American Academy of Allergy, Asthma and Immunology
2002 - Present	American Society for Microbiology

American Acceptation of University Professors

## **Leadership and Committee Work**

2018	American Association for the Advancement of Science
/IIIA	American Association for the Anvancement of Science

Session Proposal Reviewer

2018 - Present Larkin University

Research Advisory Committee (Chair)

Pre-Professional Recommendations Committee, College of Biomed. Sci. (*Chair*)

Faculty Affairs Committee (Member)

Capital Allocation Planning Committee (Member)

2018 Scientific Forum Organizing Committee (*Chair*)

2010 – 2014 National Postdoctoral Association

**Resources Development Committee** 

2011 – 2013 **Johns Hopkins Postdoctoral Association** 

**Professional Development Committee** 

2006 Puerto Rico Legislature

(Ad Hoc Committee, Law 136 of July 27<sup>th</sup>, 2006 – Regional Medical Academic Centers)

2005 – 2009 University of Puerto Rico – Medical Sciences Campus

President, General Student Council

2005 – 2009 University of Puerto Rico – Medical Sciences Campus

Student Disciplinary Board

2005 – 2009 University of Puerto Rico – Medical Sciences Campus

Academic Senate (Ex-Officio)

**Editorial Activities** 

2017 – Present Annals of Agricultural and Environmental Medicine

Peer-reviewer

2017 Annual Biomedical Research Conference for Minority Students 2017

Judge of Posters and Presentations

2017 – Present Annual Biomedical Research Conference for Minority Students

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2015 - Present	Conrad Spirit Innovation Challenge Proposal Reviewer	
2013 – Present	Sigma Xi Student Research Showcase Abstract Reviewer	
2011 – Present	Aerobiologia Ad Hoc Reviewer	
2011 - Present	SACNAS National Conference Abstract reviewer	
2013	Journal of Postdoctoral Research  Editor	
2012 – 2013	Johns Hopkins Postdoctoral Association Co-Editor Quarterly Newsletter	
2011 – 2012	Society of Toxicology Ad Hoc Reviewer, Occupational, Public Health section	
Mentoring Experience		
2017 – Present	College of Biomedical Sciences, Larkin University Respiratory and Immunology Project and Laboratory	

- Summer 2019 Interns
  - Tanha Rahman (undergraduate student, Nova Southeastern Univ.)
  - Naziba Nuha (undergraduate student, Nova Southeastern Univ.)
- Currently mentor 5 research assistants and one graduate student
  - Hayat Srour (Research Assistant)
  - Ruslan Fomenko (Research Assistant)
  - Summer Pellechio (Research Assistant)
  - Sukeina Nasser (Research Assistant)
  - Bhavik Patel (Graduate Student)
- Mentored 10 alumni of the College of Biomedical Sci., Larkin University
- websites: (main) https://www.riplrt.com; (wiki) https://wiki.riplrt.com

## Department of Microbiology, School of Medicine, University of Puerto Rico

2011– 2013	Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
2014 – 2015	- Angélica M. Rivera (Research Initiative for Scientific Enhancement awardee)
2014 – 2017	- Frances Vila (MS Thesis Committee)
2015 – 2018	- Isabelita Martínez (MS Thesis Committee)
2018 – Present	- Lorrain Vélez (PhD Thesis Committee)

- Dr. Jesse Negherbon (Dr. Breysse graduate student; NIOSH grant awardee)
- Kranthi Vysyaraju (Dr. Hartung's graduate student)

## **Courses Taught**

2018 - 2019

College of Biomedical Sciences, Larkin University, Miami, FL

Spring Term

Biochemistry II (MSB502)

Fall Term

Biochemistry I (MSB501)

2017 – 2018 College of Biomedical Sciences, Larkin University, Miami, FL

Summer Term

Molecular Genetics (MSB520)

**Spring Term** 

Biochemistry 2 (MSB502) Immunology (MSB 511)

Fall Term

Biochemistry 1 (MSB501)

2017 – 2018 Miami Dade College, Miami, FL

Fall Term

General Education Biology (BSC1005) Microbiology (MCB2010)

Microbiology Lab (MCB2010L)

2016 – 2017 Miami Dade College, Miami, FL

Summer Term

General Education Biology (BSC1005)

Microbiology Lab (MCB2010L)

Microbiology Lab (MCB2010L)

Spring Term

General Education Biology (BSC1005)

Fall Term

Principles of Microbiology (MCB3023)

Microbiology Lab (MCB3023L)

2015 – 2016 University of Puerto Rico - School of Medicine, San Juan, PR

Spring Term

Principles of Immunology (invited professor)

Miami Dade College, Miami, FL

Summer Term

Principles of Biology 2 (BSC2011, section 1247)

Microbiology Lab (MCB2010L, section 1732)

Spring Term

General Education Biology (BSC1005, section 6941)

Microbiology Lab (MCB2010L, section 8955)

Fall Term

Intro Biochemistry (BCH3023, section 1988)

General Education Biology (BSC1005, section 2514)

Microbiology Lab (MCB2010L, section 1774)

Microbiology Lab (MCB2010L, section 1777)

## 2014 – 2015 Miami Dade College, Miami, FL

## Summer Term

Microbiology Lab (MCB2010L, section 1773) Microbiology Lab (MCB2010L, section 1774) Microbiology Lab (MCB2010L, section 1775)

## Spring Term

General Education Biology (BSC1005, section 3369) Microbiology Lab (MCB2010L, section 2230) Microbiology Lab (MCB2010L, section 2231)

#### Fall Term

Intro Biochemistry (BCH3023, section 2546)
Intro Biochemistry Lab (BCB3023L, section 6164)
Microbiology Lab (MCB2010L, section 2226)
Microbiology Lab (MCB2010L, section 2230)

# 2013 – 2014 Miami Dade College, Miami, FL

# **Summer Term**

Microbiology Lab (MCB2010L, section 1732) Microbiology Lab (MCB2010L, section 1764) Microbiology Lab (MCB2010L, section 1766)