

CURRICULUM VITAE – Pascale Schaaba Guiton

CONTACT INFORMATION

California State University East Bay
Biological Sciences Department
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CITIZENSHIP

United States of America

EDUCATION

- 2005 B.Sc. Biological Sciences, Georgia State University, Atlanta, GA
- 2012 Ph.D. Biological Sciences and Medicine, Washington University in St. Louis, St. Louis, MO

RESEARCH TRAINING

- 2004-2006 Undergraduate research assistant, Georgia State University, Atlanta, GA
Department of Biology
Laboratory of Zehava Eichenbaum, PhD.
Project Goal: Understanding the molecular mechanisms of iron acquisition in *Streptococcus pyogenes* by assessing the effects of specific mutations on bacterial growth in iron-limiting conditions
- 2006-2012 Doctor of Philosophy in Biological Sciences and Medicine, Washington University in St. Louis, St. Louis, MO
Department of Molecular Microbiology and Microbial Pathogenesis
Laboratory of Scott J. Hultgren, Ph.D.
Dissertation Title: Molecular insights into the uropathogenesis of *Enterococcus faecalis* and *Escherichia coli* in the context of urinary catheterization
- 2012-2017 Postdoctoral fellow, Stanford University, Palo Alto, CA
Department of Microbiology and Immunology
Laboratory of John Boothroyd, Ph.D.
Project Title: Understanding the molecular processes that *Toxoplasma* sporozoites and bradyzoites employ to co-opt host cell processes and initiate a new infection

TEACHING

- 2004-2006 **Teaching assistant for Organic Chemistry, Department of Chemistry at Georgia State University**
Responsibilities: Provides supplemental lectures for students in Organic Chemistry I and II courses, conduct lectures, grade tests, quizzes, and problem sets, hold review sessions, and provide additional tutoring
- 2007 **Teaching assistant for Microbiology Laboratory at Washington University**

Responsibilities: Conduct lectures, grade tests, develop class projects, prepare cultures, host make-up lab

- 2012-2016 **Volunteer Teacher at Stanford Splash!**
Responsibilities: Design and teach courses on bacterial biofilms for 8th-12th grade students
- 2013 **Instructor for Stanford Med 101**
Responsibilities: Design and teach a course on the interactions between host cells and intracellular pathogens for 11th-12th graders
- 2014 **Laboratory Mentor for a MD/PhD rotation student in the Boothroyd laboratory**
Responsibilities: Help student conceive and realize a three month long rotation project, provide technical and practical guidance for hands-on laboratory experimentations, provide feedback on oral presentation, advising and mentoring on time management and how to choose a thesis laboratory.
- 2014 **Laboratory Mentor of a high school student as participant of Stanford SIMR program**
Responsibilities: Help student conceive a summer project, provide technical and practical guidance for hands-on laboratory experimentations, provide feedback on oral and poster presentations.
- 2014-2016 **Volunteer Teacher with Science Is Elementary (SiE).**
Responsibilities: Teach and conduct basic scientific experiments with 1-6th grade students.
- 2015-2017 **Microbiology Research Expert Facilitator for Stanford School of Medicine Microbiology course.**
Responsibilities: Consult on materials to be included in course videos for first year medical students, provide feedback on course videos, design activities for in-class discussions of topics to be covered in the course, and lead student group discussions and in-class activities related to course videos.
- Spring 2015 **Biochemistry Guest Lecturer at San Jose State University**
Responsibilities: Design lecture contents on lipids and biological membranes for third year undergraduate students, provide students' lecture materials, hold post lecture office hours, and contribute questions to the exam.
- Fall 2015 **Volunteer Human Biology Lecturer at Menlo College**
Responsibilities: Design lecture contents on various topics, including cell, molecular cell biology, organ systems, and infectious diseases for non-major undergraduate students, create and implement new activities for laboratory sessions (including discussions on current biological topics-CRISPR/genome editing, inherited diseases), design and grade assignments and exams, and hold post lecture office hours.
- Fall 2016 **Adjunct Lecturer at San Jose State University**
Responsibilities: Instructor of record for Pathogenic Microbiology I (MICR 141) course in charge of designing syllabus and lecture contents to deepen students' understanding of molecular processes at the host/pathogen interface, create and grade assignments and exams, hold office hours, and attend faculty meetings.
- Winter 2017 **Adjunct Lecturer at Santa Clara University**
Responsibilities: Instructor of record for Virology (BIOL 145) course in charge of designing syllabus, lecture contents to deepen students' understanding of the discover, biology, and the impact of viruses. Additional responsibilities included: hold office hours, create and grade assignments, including students' oral presentations, and exams.
- Spring 2017 **Adjunct Lecturer at San Jose State University**
Responsibilities: Instructor of record for Pathogenic Microbiology II (MICR 142) course in charge of designing syllabus and lecture contents to deepen students' understanding of molecular processes at

the host/pathogen interface with a focus on pathogenic viruses, fungi, and parasites (protozoans, helminths, and arthropods), create and grade assignments and exams, hold office hours, and attend faculty meetings.

Fall 2017 **Assigned Courses at California State University East Bay – BIOL 2025 Introduction to Microbiology**

PUBLICATIONS

Guiton PS, Hung CS, Kline KA, Roth R, Kau AL, Hayes E, Heuser J, Dodson KW, Caparon MG, Hultgren SJ. Contribution of autolysin and sortase A during *Enterococcus faecalis* DNA-dependent biofilm development. *Infect. Immun.* 2009 77(9):3626-38.

Guiton PS, Hung CS, Hancock L., Caparon MG, Hultgren SJ. Enterococcal biofilm formation and virulence in an optimized murine model of foreign body-associated urinary tract infection. *Infect. Immun.* 2010 78(10):4166-4175.

****Article of Significant Interest Selected from This Issue by the Editor****

Nielsen HV, **Guiton PS**, Kline KA, Port GC, Pinkner JS, Neiers F, Normark S, Henriques-Normark B, Caparon MG, Hultgren SJ. The metal ion-dependent adhesion site motif of EbpA pilin mediates pilus function in catheter-associated urinary tract infection. *Mbio.* 2012 3(4):e00177-12.

Guiton PS, Cusumano CK, Kline KA, Dodson KW, Han Z, Janetka JW, Henderson JP, Caparon MG, Hultgren SJ. Combinatorial small-molecular therapy prevents uropathogenic *Escherichia coli* catheter-associated urinary tract infections in mice. *Antimicrob. Agents Chemother.* 2012 56(9):4738-45.

Guiton PS, Hannan TJ, Ford B, Caparon MG, Hultgren SJ. *Enterococcus faecalis* overcomes foreign body-mediated inflammation to establish urinary tract infections. *Infect. Immun.* 2013 81(1):329-39.

****Article of Significant Interest Selected from This Issue by the Editor****

Frank KL, **Guiton PS**, Barnes AM, Manias DA, Chuang-Smith ON, Kohler PL, Spaulding AR, Hultgren SJ, Schlievert, PM, Dunny GM. AhrC and Eep are biofilm infection-associated virulence factors in *Enterococcus faecalis*. *Infect Immun.* 2013 81(5):1696-708.

Guiton PS, Sagawa J, Fritz H, JC Boothroyd. An *in vitro* model of intestinal infection reveals a developmentally regulated transcriptome of *Toxoplasma* sporozoites and a NF- κ B-like signature in infected host cells. *Plos One* 2017 12(3): e0173018

Guiton PS and Boothroyd JC. Identification of novel developmentally regulated virulence determinants of *Toxoplasma* pathogenesis. In preparation.

PRESENTATIONS

Guiton PS, Caparon MG, Hultgren SJ. (2009) – Contributions of autolysin and sortases during foreign-body associated enterococcal urinary tract infection. 5th ASM Conference on Biofilms, Cancun, Mexico.

Guiton PS, Caparon MG, Hultgren SJ. (2010) –Enterococcal biofilm formation and virulence in a murine model of foreign body-associated urinary tract infection. 17th Midwest Microbial Pathogenesis Conference, St Louis, MO.

Guiton PS, Participant at the ASM Presentation Institute for Education Board Fellows, San Diego, CA (2010)

Guiton PS, Caparon MG, Hultgren SJ. (2010) – Contributions of autolysin and sortase A in a murine model of foreign body-associated urinary tract infection. 110th ASM General Meeting, San Diego, CA.

Guiton PS, Caparon MG, Hultgren SJ. (2010) –Enterococcal biofilm formation and virulence in a murine model of

foreign body-associated urinary tract infection. Invited Speaker at the 3rd ASM conference on Enterococci, Portland, OR. ****Abstract selected for oral presentation****

Guiton PS, Caparon MG, Hultgren SJ. (2011)- Enterococcal biofilm formation and virulence in a murine model of foreign body-associated urinary tract infection. 8th-Annual Yale Bouchet Conference on Diversity in Graduate Education. ****Invited Speaker and moderator****

Guiton PS, Caparon MG, Hultgren SJ. (2011)- The role of foreign body-mediated inflammation during *Enterococcus faecalis* uropathogenesis. 111th ASM General Meeting, New Orleans, LA.

Guiton PS, Caparon MG, Hultgren SJ. (2011)- Characterization of the host response to *Enterococcus faecalis*-mediated catheter associated urinary tract infection. 6th international conference on Gram-positive micro-organisms, Montecatini Terme, Tuscany, Italy. ****Abstract selected for oral presentation****

Guiton PS and J. Boothroyd (2015) – How does *Toxoplasma* modulate host immune responses when initiating infection in a new host? 13th International Congress on Toxoplasmosis and *Toxoplasma gondii* Research, Gettysburg, PA. ****Abstract selected for oral presentation****

PROFESSIONAL DEVELOPMENT ACTIVITIES

Guiton PS, Participant at the NIAID bridging the Career Gap for Underrepresented Minority Scientists Workshop (2013) - Bethesda, MD.

Guiton PS, Participant at the Mentoring In Research Workshop for Postdoctoral Scholars (2014) - Stanford, CA.

Guiton, PS, Participant at the Stanford Teaching Workshop (2014) - Stanford, CA.

Guiton, PS, Participant at the Stanford VPGE Management Matters course (2015) - Stanford, CA.

Guiton, PS, Participant at the Stanford Career Development Center workshop – Writing a Compelling Teaching Statement (2015) - Stanford, CA.

Guiton, PS, Participant at the Stanford/SJSU Undergraduate Teaching Workshop (2016) – Stanford, CA.

Guiton, PS, Participant at the Stanford Pedagogy Journal Club (2016) – Stanford, CA.

ACADEMIC AND PROFESSIONAL HONORS AND AWARDS

2003 & 2004 Faculty Scholarship Award, Georgia State University

2003 & 2004 Dean's Scholarship Key Award, Georgia State University

2004-Present Beta Beta Beta National Biological Honor Society

2004-Present Golden Key International Honour Society

2005 William G. Nolan Memorial Scholarship Award for distinguished student in biology, Georgia State University

2005 Institutional Honors: Summa Cum Laude, Georgia State University
Departmental Honors: Distinction in Specified Major, Georgia State University

2005 William S. Kell Presidential Award for Academic Excellence, Georgia State University

- 2009 Robert D. Watkins Graduate Research Fellowship Award, American Society of Microbiology
- 2010 The Milton and Sondra Schlesinger Student Travel Award, Washington University in St. Louis
- 2011 Alexander E. Bouchet Graduate Honor Society, Washington University in St. Louis
- 2013 NIAID Diversity Supplement Award for Parent Grant 1R01AI073756 (02/01/2013-01/31/2015)
- 2014 Stanford Postdoctoral Fellowship from Immunology Training Grant AI07290 (02/01/2015- 02/01/2016)

SERVICE

- 2007-2012 Member of the Association of Black Biomedical Graduate Students, Washington University in St. Louis
- 2007-2012 Member of the Young Scientist Program, Washington University in St. Louis
- 2015-present Member of the Black Postdocs Association, Stanford University.