

# AIMEE M HOLLANDER, PhD

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## EDUCATION

Virginia Commonwealth University/ Medical College of Virginia

### PhD Microbiology and Immunology

Dissertation: The regulation of TonB-dependent iron transporters in *Neisseria gonorrhoeae*

2005-2011

### Virginia Polytechnic Institute and State University

BS in Biology

2001-2005

## TEACHING EXPERIENCE

Nicholls State University, Thibodaux LA

2015-Present

### Assistant Professor

Design laboratory experiments in the area of cell and molecular biology

Mentor honors students

Deliver lectures in Cell and Molecular Biology and Biology for none biology majors

Fletcher Community College, Schriever LA

2015

### Adjunct instructor

Provide an active learning environment for the mastery of biology

Create lessons plans in the area of biology

Life Chiropractic College West, Hayward CA

2013-2015

### Assistant Professor

Teaching Public Health 1, Microbiology Laboratory, Infectious Disease Pathology, Basic Science Review and Clinical Chemistry

Developing curriculum in the area of integrative science application, in which hybrid courses and laboratory courses are utilized

Facilitates experiential learning in an interactive and professional environment.

Suitably challenge, serve, and communicate with students to encourage their participation and learning progress.

Identify and assist at-risk students while eliminating student barriers to learning.

Enables personal growth and professional development via real world application.

Conducting institutional research involving assessing teaching methodology, identifying student success based on pre-test, post-test and board completion.

Identifying student perception of success compared to assessment utilizing critical thinking exercises, traditional quizzes, exams, and group work activities.

Assessing current curriculum and technology needs of students

Writing curriculum for microbiology lab and basic science review courses

Leading faculty development seminars on bloom's taxonomy and integrating technology into the classroom

Life Chiropractic College West, Hayward CA

2015-Present

### Adjunct Professor

Create and deliver cultural competency course online

Teaching Infectious Disease Pathology

Utilize Moodle LMS to upload lectures and post practice quizzes

Asses current curriculum and adjust to the needs of the student

Brandman University, Irvine CA

2014-Present

### Adjunct Online Professor

Teach biology and physical science through the use of discussion boards and assignments.

Utilize Blackboard LMS to post assignment and lead discussions

Mentor students and monitor grades through online forums

Motivate students and make sure that they are on track in their studies

Provide feedback on written threaded discussions and assignments

Strayer University, Washington DC

2012

### Adjunct Professor

Design and implement lectures in the area of Physical Science in classroom setting

Create PowerPoint presentations and assessments that encompass scientific concepts

Post and voice over presentations online utilizing Blackboard e-Education platform

Moderate online discussion boards involving the review of science articles

**HONORS AND AWARDS**

May 2017-May 2018 LA DIA Fellowship

Louisiana Sea Grant offers one-year fellowships to highly talented tenure track faculty from institutions of higher education in Louisiana. Training received as part of the program helps support innovative solutions to the coastal challenges facing the Mississippi River Delta and coastal systems worldwide.

April 2017 ASM-LINK Undergraduate Research Faculty Initiative (UFRI) Fellowship

UFRI Fellowship is a professional development resource that trains STEM faculty to initiate and sustain successful research partnerships. Through interactive training, structured mentoring, and deliberate networking at ASM-sponsored research conferences, UFRI fellows gain access to resources and networks to advance their undergraduate research programs.

July 1, 2016-June 30<sup>th</sup> 2017, (Co-PI 50%) Louisiana Board of Regents E-learning grant, the title is "*Public STEM Writing: Improving Science Literacy for STEM and non-STEM Majors.*" The total grants award is \$17,500. The Supervising Institution is Nicholls State University.

June 22<sup>nd</sup>-June 24<sup>th</sup> 2016, ASMCUE travel award sponsored by the American Society for Microbiology. The total award is \$750.00 to pay for the attendance to the ASM conference of undergraduate educators 2016.

2012-2013 Oak Ridge Institute for Science and Education (ORISE), USFDA Center of Biologics Evaluation and Research

2009, First Place Presentation Virginia Branch, American Society of Microbiology Meeting, Richmond Virginia

**COURSES**

Clinical Chemistry  
 Infectious Disease Pathology  
 Integration and Basic Science Review  
 Public Health  
 Microbiology Laboratory  
 Biology  
 Physical Science – online and hybrid  
 Cell and Molecular Biology Lecture and Laboratory  
 Biology for non-majors

**RESEARCH INTEREST**

STEM Education, active learning evaluation, STEM outreach, educational technology utilization, microbial pathogenesis, host/pathogen interactions, antibiotic resistances in hospital isolates

**PRESENTATION**

Public STEM Writing: Improving Science Literacy for STEM and Non-STEM majors, Scott D Banville<sup>1</sup>, **Aimee M Hollander<sup>1</sup>**, Shaping the future of E-learning, April 4<sup>th</sup> 2017, Pennington Biomedical Research Center Baton Rouge, LA (Oral Presentation)

RNA Methyltransferase Gene Identification in *Neisseria gonorrhoea* Isolates Collected from Thibodaux Regional Medical Center January 2016 to September 2016 Brendon J. Gros<sup>1</sup>, Anne Guidry<sup>2</sup>, Wendy Toups<sup>2</sup>, **Aimee M Hollander<sup>1</sup>** American Society of Microbiology South Central Branch Meeting, October 28-29<sup>th</sup>, 2016, The University of Louisiana Lafayette (Poster)

Antibiotic Resistance in Bacteria Isolated from Urinary Tract Infections at Thibodaux Regional Medical Center from July 2015-July 2016 Dexter Hebert<sup>1</sup>, Wendy Toups<sup>2</sup>, **Aimee M Hollander<sup>1</sup>** American Society of Microbiology South Central Branch Meeting, October 28-29<sup>th</sup>, 2016, The University of Louisiana Lafayette (Poster)

**Aimee Hollander<sup>1</sup>** The evaluation of active learning techniques for the review of basic sciences and the impact of these methods by multiple choice exam assessment. March 21<sup>st</sup>-22<sup>nd</sup> 2015 Association of Chiropractic Colleges (ACC) meeting, Las Vegas NV (Oral presentation)

**Aimee Hollander<sup>1</sup>** Enhancing your lessons with technology. Faculty Development Day Summer 2014. Hayward CA. (Oral Presentation)

**A.M. Hollander<sup>1</sup>**, H.F. Nawar<sup>1</sup>, A. Cohn<sup>2</sup>, M.C. Bash<sup>1</sup>

Development of an intrinsic killing assay for identifying susceptible individuals to *Neisseria meningitidis* serogroup B strains 18th International Pathogenic Neisseria Conference September 4<sup>th</sup>-9th 2012, Wurzburg, German (Poster)

**Aimee Hollander<sup>1</sup>**, Alexandra Mercante<sup>2</sup>, William M. Shafer<sup>2</sup>, Cynthia Nau Cornelissen<sup>1</sup> (2010) Gonococcal FetA Expression is Regulated by MpeR and Enables Strain FA1090 to Utilize Enterobactin and its Linear Derivatives. 17<sup>th</sup> International Pathogenic Neisseria Conference September 11<sup>th</sup>-16<sup>th</sup> 2010, Banff, Alberta Canada (Poster)

**Aimee Hollander**<sup>1</sup>, Alexandra Mercante<sup>2</sup>, Lydgia Jackson<sup>3</sup>, Cynthia Nau Cornelissen<sup>1</sup>, William M. Shafer<sup>2</sup>, David Dyer<sup>3</sup>, (2010) The AraC-like Transcriptional Regulator, MpeR, Activates Expression of FetA in *Neisseria gonorrhoeae*. American Society of Microbiology 110<sup>th</sup> General Meeting May 23<sup>rd</sup>-27<sup>th</sup>, San Diego, CA (Poster)

**Aimee Hollander**<sup>1</sup>, Cynthia Nau Cornelissen<sup>1</sup>, (2009) The role of Mper, an AraC-like Regulator and Iron on the Expression of Outer Membrane Proteins in *Neisseria gonorrhoeae*. American Society of Microbiology, Virginia Branch Meeting, November 13<sup>th</sup>-14<sup>th</sup>, Richmond, VA. (Oral presentation)

#### PUBLICATIONS

**Hollander, A.M.**, Straub, D. Willis, J. The evaluation of active learning techniques for the review of basic sciences and the impact of these methods by multiple choice exam assessment In **preparation**

Gregory A.Price, **Aimee M. Hollander**, Brian D. Plikaytis, Brian T. Mocca, George Carlone, Helen Findlow, Ray Borrow, Samba O. Sow, Aldiouma Diallo, Olubukola T. Idoko, Godwin C. Enwere, Marie-Pierre Preziosi; Prasad S. Kulkarni, Margaret C. Bash, Human complement bactericidal responses to a Group A meningococcal conjugate vaccine in Africans and comparison to responses measured by two other group A immunoassays **2015, November 15** Clinical Infectious Disease 61 (suppl 5): S554-S562 doi:10.1093/cid/civ504

**Hollander, A.M.**, Mercante, A., Shafer W.M., and Cornelissen, C.N.: MpeR, an AraC-like regulator activates FetA expression in strain FA1090, Infection and Immunity 2011 Dec;79(12):4764-76.

Cornelissen, C.N, and **Hollander, A.M**: TonB-dependent transporters expressed by *Neisseria gonorrhoeae*, Frontiers in Microbiology, 2011 [http://www.frontiersin.org/Journal/Abstract.aspx?s=149&name=cellular and infection microbiology&ART\\_DOI=10.3389/fmicb.2011.00117](http://www.frontiersin.org/Journal/Abstract.aspx?s=149&name=cellular+and+infection+microbiology&ART_DOI=10.3389/fmicb.2011.00117)

Price, G.A., Masri H.P., **Hollander, A.M.**, Russell, M.W., and Cornelissen, C.N.: Gonococcal transferrin binding protein-cholera toxin B chimeras induce serum bactericidal and vaginal transferrin utilizations blocking antibodies in mice, Vaccine, 25 (41): 7247-7260, 2007.

Delboy, M.G., Patterson, J.L., **Hollander, A.M.**, Nicola A.V.: Nectin-2-mediated entry of a syncytial strain of herpes simplex virus via pH-independent fusion with the plasma membrane of Chinese hamster ovary cells, Virology Journal, 2006 Dec 27;3:105

#### RESEARCH

USFDA Center of Biologics Evaluation and Research, Bethesda MD 2012-2013  
Laboratory of Bacterial Polysaccharides

##### Research Fellow

Investigate the efficacy of a Meningococcal A (MenA) conjugate vaccine utilized in Sub-Saharan Africa during mass immunization campaigns  
Conduct research and prepare and review PowerPoint presentations, charts, and other graphics from data collection  
Write memos, reports, and standard operating procedures (SOP) for scientist and clinical trial managers  
Design projects, assess project accessibility, set project goals, and supervise novice scientists  
Create, maintain, and update databases for tracking patient information and data collection

VCU Philips Institute of Oral and Craniofacial Molecular Biology, Richmond VA 2011- 2012

##### Postdoctoral Fellow

Investigated the role of metal transport in oral infectious diseases  
Mentored undergraduate and graduate students in a laboratory setting

Virginia Commonwealth University School of Medicine, Richmond, VA 2005-2011

Department of Microbiology and Immunology

##### Graduate research assistant

Utilize molecular genetics to determine gene expression in *Neisseria gonorrhoeae* expression  
Evaluated nutrient acquisition as a virulence factor *Neisseria gonorrhoeae*  
Organized collaborations with two other laboratories in North Carolina and Atlanta, GA  
Trained novice scientists in aseptic technique and basic microbiology techniques  
Organized student-sponsored seminars involving the topic of women in science in which membership recruitment and advertising of events was conducted

#### SERVICE

Peer reviewer for the Journal of Chiropractic Education  
Peer reviewer for American Society of Microbiology  
Faculty Development presentations  
Student Advisor  
Judge for local science fairs

#### PROFESSIONAL SOCIETIES

American Society of Microbiology	2005-Present
American Association for the Advancement of Science (AAAS)	2008-Present
Alpha Delta Pi	2003-Present
Association for Women in Science (AWIS)	2005-Present

**PROFESSIONAL DEVELOPMENT**

Nicholls State University, Thibodaux, LA <b>Quality Matters Designing Online Courses</b> Instructional design for online course development	2015
Brandman University, Irvine CA <b>Online instructor certification</b> Instructional design for adult learning model and best practices in online learning	2014
National Institutes of Health, Bethesda MD <b>Scientist Teaching Science Pedagogy Course</b> Instruction on creating valid assessments, utilization of blooms taxonomy, alternative assessments Create lessons alternative to lecturing, enhance teaching effectiveness and understand instruction based learning styles	2012-2013
National Institutes of Health, Bethesda MD <b>Research Mentor Training</b> Effectively establishing mentor-mentee expectations Developing strategies for helping mentees build confidence, independence, creativity, and communication skills Improve cultural competency in mentoring	2012
Virginia Commonwealth University, Richmond VA <b>Preparing Future Faculty Courses</b> Instruction on college level course structure, and use of technology in higher education Instruction on designing learning environments, writing learning objectives, common teaching methods and syllabus construction	2008-2009