

Quincy C. Moore III, Ph.D.

Education

- 1997 B.S., Department of Biology, Jackson State University, Jackson, MS
2000 M.S., Department of Biological Sciences, Auburn University, Auburn, AL;
2007 Ph.D., Department of Microbiology, University of Mississippi Medical Center, Jackson, MS:

Employment

- 2009- Assistant Professor, Department of Biology, Prairie View A & M University

Teaching

- 2011- College Biology (Non-Biology Majors) Prairie View A & M University
2010 - Microbiology (Biology Majors), Prairie View A & M University
2009 - General Microbiology (Pre-Nursing Majors), Prairie View A & M University
2009 Bacterial Structure and Function, University of Mississippi Medical Center
1999 Graduate Teacher Assistant in Food Microbiology Lab, Auburn University
1998-2000 Graduate Teacher Assistant in General Microbiology Lab, Auburn University
1997-1998 Graduate Teacher Assistant in General Biology Lab, Auburn University

Mentorship

- 2003- Assisted in the training of several high school, undergraduate and graduate students in the research lab.
2008- 2009 Science fair judge and advisor for elementary and junior high students
2009 Louis Stokes Alliance for Minority Participation Research Mentor
2010 Minority Mentor for American Society of Microbiology
2010 Summer Research Advisor
2011 Summer Research Advisor

Committees and Service

- 2007-2009 UMMC Multicultural Enhancement Committee
2008- 2009 Institutional Animal Care and Use Committee (IACUC), VA Medical Center
2010- Co-advisor for Pre-Optometry Professional Society (POPS)
2010- Co-advisor for Pre-Medical Student (MAPS)

Funding

Funded Proposals

- 2007-2009 **Research Supplement to Promote Diversity in Health-Related Research, Public Health Service Grant RO1EY016195**, National Eye Institute, National Institutes of Health: *Streptococcus pneumoniae* ocular pathogenesis and therapy. (Trainee)

- 2010 **Undergraduate Medical Academy Enhancement Mini Research Grant:** Examination of the Host Response to *Streptococcus pneumoniae* Keratitis in a Mouse Model. (**Principal Investigator**) January -August
- 2010 **Thurgood Marshall College Fund (TMCF) /DOD Air Force Office of Scientific Research.** Characterization of the Role of *Streptococcus pneumoniae* in Bacterial Keratitis. (**Principal Investigator**)
- 2010 **Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences (UBM)** National Science Foundation Grant (**Co-Principal Investigator**)
- 2011 **Undergraduate Medical Academy Enhancement Mini Research Grant:** Age Dependent Susceptible of C57BL/6 Mice to Pneumococcal Keratitis (**Principal Investigator**) June-August
- Submitted Proposals**
- 2011 **Thurgood Marshall College Fund Department of Energy (TMCF) /DOE.** Development of Global Preventative Measures in Response to Bacterial Associated Ocular Damage. (**Principal Investigator**)

Research: Characterization of the Role of *Streptococcus pneumoniae* in Bacterial Keratitis

- I. **Elucidate the host factors involved in *S. pneumoniae* keratitis by the utilizing our established mouse model of ocular disease.** Knowledge of these host factors will lead to the development of novel therapies for this form of keratitis. The research will also further characterize the role of the other pneumococcal virulence factors in keratitis infections.
- II. **Develop novel therapeutic interventions that target pneumococcal proteins in *S. pneumoniae* keratitis.** New therapies that specifically target the host signaling cascades involved in pneumococcal Keratitis will be developed based on the specific interaction of pneumolysin and other potential virulence factors with the host in a mouse model of keratitis.

Selected Publications

1. Sanders ME, **Moore QC 3rd**, Norcross EW, Sanfilippo CM, Hesje CK, Shafiee A, Marquart ME. Comparison of besifloxacin, gatifloxacin, and moxifloxacin against strains of pseudomonas aeruginosa with different quinolone susceptibility patterns in a rabbit model of keratitis. *Cornea*. 2011 Jan;30(1):83-90.
2. Sanders M, Norcross E, Robertson ZM, **Moore QC**, Fratkin J, Marquart ME. The *Streptococcus pneumoniae* capsule is required for full virulence in pneumococcal endophthalmitis. *Invest Ophthalmol Vis Sci*. 2010 Nov 4.
3. Sanders ME, Norcross EW, **Moore QC III**, , Fratkin J, Thompson H, Marquart ME. 2010. Immunization with pneumolysin protects against both retinal and global damage caused by *Streptococcus pneumoniae* endophthalmitis. *J Ocul Pharmacol Ther*. 2010 Dec;26(6):571-7. Epub 2010 Oct 29.

4. Sanders ME, **Moore QC III**, Norcross EW, Shafiee A, Marquart ME. 2010. Efficacy of Besifloxacin in an Early treatment Model of Methicillin-Resistant *Staphylococcus aureus* Keratitis. J Ocul Pharmacol Ther. 2010 Apr;26(2):193-8.
5. Norcross EW, Sanders ME, **Moore QC III**, Sanfilippo CM, Hesje CK, Shafiee A, Marquart ME. 2010. Comparative Efficacy of Besifloxacin and Other Fluoroquinolones in a Prophylaxis Model of Penicillin-Resistant *Streptococcus pneumoniae* Rabbit Endophthalmitis. J Ocul Pharmacol Ther. 2010 Jun;26(3):237-43.
6. Sanders ME, Norcross EW, **Moore QC III**, Shafiee A, Marquart ME. 2009. Efficacy of Besifloxacin in a Rabbit Model of MRSA Keratitis. Cornea. Oct 29; 28(9):1055-60.
7. **Moore QC III**, McCormick CC, Norcross EW, Onwubiko C, Sanders ME, Fratkin J, McDaniel LS, Marquart ME. 2009. Development of a Streptococcus pneumoniae Keratitis Model in Mice. Ophthalmic Research. Jul 23;42(3):141-146.
8. Sanders ME, Norcross EW, **Moore QC III**, Shafiee A, Marquart ME. 2009. Efficacy of Besifloxacin in a Rabbit Model of MRSA Keratitis. Cornea: 28(9) 1055-1060.
9. Sanders ME, Norcross EW, **Moore QC III**, Onwubiko C, King LB, Fratkin J, Marquart ME. 2008. A comparison of pneumolysin activity and concentration in vitro and in vivo in a rabbit endophthalmitis model. Clinical Ophthalmology: 2(4) 793-800.
10. Marquart ME, **Moore QC III**, O'Callaghan RJ. Novel therapies for bacterial keratitis. In: Columbus F, editor. Eye Infections: Causes, Effects and Treatment. Hauppauge, NY: Nova Science Publishers, Inc., accepted for publication.
11. Green SN, Sanders M, **Moore QC 3rd**, Norcross EW, Monds KS, Caballero AR, McDaniel LS, Robinson SA, Onwubiko C, O'Callaghan RJ, Marquart ME. 2008. Protection from *Streptococcus pneumoniae* Keratitis by Passive Immunization with Pneumolysin Antiserum. Invest Ophthalmol Vis Sci. Jan; 49(1):290-4.
12. Quin LR, **Moore QC 3rd**, Thornton JA, McDaniel LS. 2007. Peritoneal Challenge Modulates Expression of Pneumococcal Surface Protein C (PspC) during Bacteremia in Mice. Infect Immun. Dec 26; Mar;76(3):1122-7.
13. Quin LR, Onwubiko C, **Moore QC**, Mills MF, McDaniel LS, Carmicle S. 2007. Factor H binding to PspC of Streptococcus pneumoniae increases adherence to human cell lines in vitro and enhances invasion of mouse lungs in vivo. Infect Immun. Aug; 75(8):4082-7.
14. **Moore QC 3rd**, Johnson L, Repka M, McDaniel LS. 2007. Immunization with PspA incorporated into a poly(ethylene oxide) matrix elicits protective immunity against Streptococcus pneumoniae. Clin Vaccine Immunol. Jun;14(6):789-91.
15. Quin LR, **Moore QC 3rd**, McDaniel LS. 2007. Pneumolysin, PspA, and PspC contribute to pneumococcal evasion of early innate immune responses during bacteremia in mice. Infect Immun. Apr;75(4):2067-70.
16. **Moore QC**, Bosarge JR, Quin LR, McDaniel LS. 2006. Enhanced protective immunity against pneumococcal infection with PspA DNA and protein. Vaccine. Jul 17;24(29-30):5755-61.

Posters and Presentations

1. **Q. C. Moore III**, G. Broussard, C. Smith, L.S. McDaniel. 2011. Immune Factors Elicited in Human Corneal Epithelial Cells Following Exposure to *Streptococcus pneumoniae*. American Society of Microbiology. New Orleans, LA.
2. J. Bosarge M.D., **Q.C. Moore III Ph.D.**, L.S. McDaniel Ph.D. 2010. Enhancement of Immune Responses to a Pneumococcal DNA Vaccines by Co-Administering Plasmid Expressing ICOS Ligand. Society of Critical Care Medicine's 39th Critical Care Congress Miami Beach, Florida.
3. N. A. Tullos, E. Norcross, S. Taylor, **Q. Moore**, M.E. Sanders, M.E. Marquart. 2010. TOLL-LIKE RECEPTOR 4, BUT NOT TOLL-LIKE RECEPTOR 2, IS NECESSARY FOR PROTECTION AGAINST CORNEAL DAMAGE DURING PNEUMOCOCCAL KERATITIS. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL.
4. M.E. Marquart, M.E. Sanders, E.W. Norcross, **Q. C. Moore III**, A. Shafiee. 2010. Efficacy of Besifloxacin in the Treatment of Methicillin-Resistant *Staphylococcus aureus* Keratitis. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL.
5. ME Sanders, SD Taylor, EW Norcross, NA Tullos, **QC Moore III**, ME Marquart. 2010. Protection against Pneumococcal Endophthalmitis in Rabbits by Active Immunization with Pneumovax® 23 and Pneumolysin. American Society for Microbiology-110th General Meeting San Diego, CA.
6. Tyrone Burnett, Brittny Brailsford, Stephanie Rawls, Steven Hawkins and **Quincy C. Moore III**, Ph.D. 2010. Characterization of *Streptococcus pneumoniae* role in Bacterial Keratitis. 6th Annual Symposium Held on February 25-27th at Texas A&M University, College Station, TX.
7. Rhonda Caston, **Quincy Moore**, Erin Norcross, Melissa Sanders, Mary Marquart. 2010. The effects of Pneumolysin on the Cornea. Mississippi Academy of Science, Seventy-fourth Annual Meeting, Hattiesburg, MS.
8. **Q.C. Moore III**, M.E. Sanders, L. B. King , E.W. Norcross, M.E. Marquart. 2009. Age Dependent Susceptibility of C57BL/6 Mice to Pneumococcal Keratitis. American Society for Microbiology-109th General Meeting Philadelphia, PN.
9. M.E. Sanders, E.W. Norcross, **Q.C. Moore, III**, M.E. Marquart. 2009 Protection against Pneumococcal Endophthalmitis in Rabbits by Active Immunization with Pneumovax 23. American Society for Microbiology-109th General Meeting Philadelphia, PN.
10. M.F. Mills, R. L. Burton, M.H. Nahm, D. E. Bruiles, **Q. C. Moore III**, L.S. McDaniel. 2009. Intranasal Immunization with PcsB of *Streptococcus pneumoniae* Reduces Nasopharyngeal Colonization in Mice. American Society for Microbiology-109th General Meeting Philadelphia, PN.
11. **Q.C. Moore III**, M.E. Sanders, E.W. Norcross, A. Shafiee M.E. Marquart. 2009. Efficacy of Besifloxacin in the Treatment of Quinolone-Resistant

- Pseudomonas aeruginosa* Keratitis. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL.
12. M.E. Sanders, E.W. Norcross, **Q.C. Moore, III**, M.E. Marquart. 2009. Protection from Pneumococcal Endophthalmitis by Active Immunization with Pneumolysin in a Rabbit Model. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL.
 13. E. W. Norcross, M.E. Sanders, **Q.C. Moore, III**, M.E. Marquart. 2009. Active Immunization Against Pneumolysin Protects the Cornea During Streptococcus pneumoniae Keratitis Infection. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL.
 14. **Q.C. Moore III**, C.C. McCormick, E.W. Norcross, C. Onwubiko, M.E. Sanders, M.E. Marquart. 2008. Development of a Mouse Model of *Streptococcus pneumoniae* Keratitis. XVIII International Congress of Eye Research, Beijing, China.
 15. M.E. Sanders, E.W. Norcross, **Q.C. Moore, III**, M.E. Marquart. 2008. Effect of Capsule on the Pathogenesis of Streptococcus pneumoniae in a Rabbit Endophthalmitis Model. XVIII International Congress of Eye Research, Beijing, China.
 16. M.E. Sanders, E.W. Norcross, **Q.C. Moore, III**, M.E. Marquart. 2008. A Comparison of Pneumolysin Activity and Concentration in vitro and in vivo in a Rabbit Endophthalmitis Model. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL.
 17. E.W. Norcross, **Q.C. Moore, III**, M.E. Sanders, M.E. Marquart. 2008. The Effect of *Streptococcus pneumoniae* Pneumolysin on Primary Rabbit Corneal Epithelial Cells. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL.
 18. **Q. C. Moore III**, L. Johnson, M. Repka and L. S. McDaniel. 2007. Immunization with PspA Incorporated into a Poly(Ethylene Oxide) Matrix Elicits Protective Immunity against *Streptococcus pneumoniae*. Mississippi Academy of Sciences, Starkville, MS.
 19. L.R. Quin, **Q. C. Moore, III**, S. Carmicle and L.S. McDaniel. 2006. The Combined Role of Pneumolysin, PspA, and PspC in Complement Deposition and Virulence of *Streptococcus pneumoniae*. American Society for Microbiology-106th General Meeting, Orlando, Florida.
 20. **Q. C. Moore** and L. S. McDaniel. 2005. Protection Against Pneumococcal Disease by Prime-Boost Immunization with pspA/EF5668. American Society for Microbiology-105th General Meeting Atlanta, GA.
 21. **Q. C. Moore**, J. Bosarge and L. S. McDaniel. 2004. Protection Against Pneumococcal Infection by Prime-Boost Immunization with DNA and Protein. International Society of Pneumococci and Pneumococcal Diseases, Helsinki, Finland.
 22. **Q. C. Moore**, J. Bosarge and L.S. McDaniel. 2003. DNA Vaccination with pspA and Protein Elicits PspA Specific Antibody Responses. American Society for Microbiology-103rd General Meeting, Washington, DC.
 23. **Q. C. Moore**, A. Ethridge, J. Bosarge and L. S. McDaniel. 2002. Protection Against *Streptococcus pneumoniae* by Genetic Immunization with pspA/EF5668.

American Society for Microbiology- 102nd General Meeting, Salt Palace
Convention Center, Salt Lake City, UT.