

KEVIN B. KISER, PH.D.

Department of Biology and Marine Biology
University of North Carolina Wilmington
601 S. College Road, Wilmington, NC 28403-5915
Voice: 910-962-2968
E-mail: kiserk@uncw.edu
Web: <http://people.uncw.edu/kiserk/>

EDUCATION

- 1996 Ph.D.
MEDICAL UNIVERSITY OF SOUTH CAROLINA, Charleston, SC
Major: Molecular and Cellular Biology and Pathobiology
Advisor: Michael G. Schmidt, Ph.D.
- 1990 B.A.
BOSTON UNIVERSITY, Boston, MA
Major: Biology

TEACHING POSITIONS

- 2012 – Present Lecturer, Department of Biology and Marine Biology
UNIVERSITY OF NORTH CAROLINA WILMINGTON, Wilmington, NC
- 2001 – 2012 Instructor, Science Department
CAPE FEAR COMMUNITY COLLEGE, Wilmington, NC
- 1999 Teaching Assistant
HARVARD MEDICAL SCHOOL, Boston, MA
- 1997 – 2000 Teaching Assistant
HARVARD UNIVERSITY EXTENSION SCHOOL, Cambridge, MA

RESEARCH POSITIONS

- 2002 – 2005 Adjunct Research Associate, Center for Marine Science
UNIVERSITY OF NORTH CAROLINA WILMINGTON, Wilmington, NC
- 2000 – 2001 Staff Scientist, New Technology Research & Development
PERKINELMER LIFE SCIENCES, INC., Boston, MA
- 2000 Scientific Curator
PROTEOME, INC., Beverly, MA
- 1999 – 2000 Instructor in Medicine
HARVARD MEDICAL SCHOOL, Boston, MA
- 1996 – 2000 Associate Microbiologist, Department of Medicine
BRIGHAM AND WOMEN'S HOSPITAL, Boston, MA
- 1996 – 1999 Research Fellow in Medicine
HARVARD MEDICAL SCHOOL, Boston, MA
Advisor: Jean C. Lee, Ph.D.

PROFESSIONAL SOCIETIES

1993 – Present American Society for Microbiology (ASM), Member

PROFESSIONAL ACTIVITIES

2016 *Scientific Reports*, manuscript Reviewer
2015 *Fine Focus*, Manuscript Reviewer
2014 & 2015 ASM General Meeting Career Workshop, Adviser

FUNDING AND AWARDS (since 2013)

2017 UNCW Lecturer of the Year
2016 UNCW Charles L. Cahill Award for Faculty Research and Development
Co-PI: Dr. Ryan Rhodes
Culture and Characterization of Anaerobic Gut Microbes from Pygmy and Dwarf Sperm Whales
2016 UNCW Spring SURCA
Student: Zachary Johannesson
Triclosan resistance in *Staphylococcus aureus* isolated from UNCW nursing students
2015-2017 UNCW ETEAL Applied Learning Supported Pedagogy Initiative & Sustainability 2.0
CURE for the Mundane: Introducing Research in Freshman Biology Labs
2014 UNCW ETEAL Applied Learning Supported Pedagogy Initiative
Co-PIs: Drs. Ryan Rhodes and Patrick Erwin
Molecular and Metabolic Approaches to Identify and Characterize Unknown Microorganisms in BIOL 246 and BIOL 425
2013 UNCW ETEAL Applied Learning Supported Pedagogy Initiative
Incidence of Asymptomatic Chlamydia and Gonorrhea Infections in UNCW Students
2013 UNCW ETEAL Applied Learning Supported Pedagogy Initiative
Testing UNCW Nursing Students for MRSA Carriage

STUDENT ORAL PRESENTATIONS

- Adams KL, **Kiser KB**. TricAntibiotic Discovery – the Isolation and Characterization of Antimicrobial Compounds from Bacteria Isolated in Sediments of the Cape Fear River. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, North Carolina State University, Raleigh, NC. October 21, 2017.
- Johannesson ZP, **Kiser KB**. Triclosan Resistance in *S. aureus* Isolated from Noses and Throats of Nursing Students. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, University of North Carolina Wilmington, Wilmington, NC. October 1, 2016.
- Jackson KG, **Kiser KB**. Experiencing Transformative Education through Applied Learning (ETEAL): Development of a Free STI Test for College Students. SNCURCS, STATE OF NORTH CAROLINA UNDERGRADUATE RESEARCH & CREATIVITY SYMPOSIUM, High Point University, High Point, NC. November 15, 2015.

SELECTED STUDENT POSTER PRESENTATIONS (since 2015)

- Crowley BM, **Kiser KB**. Seasoning Bacteria: Combinations of Herbs, Spices, and their Major Constituents Working Synergistically Against ESKAPE Pathogens. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, North Carolina State University, Raleigh, NC. October 21, 2017.
- Lane CG, **Kiser KB**. Use of VL55 medium to culture antibiotic-producing bacteria from soil samples. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, North Carolina State University, Raleigh, NC. October 21, 2017.
- Mignosa H, **Kiser KB**. Novel antibiotic producing species of *Pseudomonas* identified in *Sphagnum* Moss microbiome. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, University of North Carolina Wilmington, Wilmington, NC. October 21, 2017.
- Postich CA, **Kiser KB**. Antibiotic Discovery: Bacteria Isolated from Unique Environments with Antimicrobial Activity Against ESKAPE Pathogens. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, University of North Carolina Wilmington, Wilmington, NC. October 21, 2017.
- Woolpert KM, **Kiser KB**. Antibiotic-Producing Bacteria Discovered at Local Anne McCrary Park. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, North Carolina State University, Raleigh, NC. October 21, 2017.
- Gordon RS, **Kiser KB**. The Use of Soil Extraction Agar to Cultivate Antibiotic-Producing Bacteria Under Environment-Like Conditions. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, University of North Carolina Wilmington, Wilmington, NC. October 1, 2016.
- McCoury YT, Brady EA, Walker WR, Jones JS, Warzecho LM, **Kiser KB**. Cape Fear River Sediment Reveals Antibiotic-Producing Bacteria. 77TH ANNUAL ASB MEETING, ASSOCIATION OF SOUTHEASTERN BIOLOGISTS, Concord, NC. March 31-April 3, 2016.
- Johannesson ZP, Honeycutt AL, Mason MC, Jones CL, Kesinger AT, Loekman NL, **Kiser KB**. Antibiotic Resistance Profiles of *S. aureus* Isolates Collected from the Noses and Throats of Nursing Students. 77TH ANNUAL ASB MEETING, ASSOCIATION OF SOUTHEASTERN BIOLOGISTS, Concord, NC. March 31-April 3, 2016.
- Jackson KG, **Kiser KB**. Development of a Test to Measure Possible Correlation between Stress and Increased *Streptococcus mutans* in College Students. 77TH ANNUAL ASB MEETING, ASSOCIATION OF SOUTHEASTERN BIOLOGISTS, Concord, NC. March 31-April 3, 2016.
- D'Angelo DM, Wagner CL, Jernigan KT, **Kiser KB**. Isolation, Characterization and Antibiotic Susceptibility of *Staphylococcus* Species on Surfaces in a University Weightlifting Facility. 77TH ANNUAL ASB MEETING, ASSOCIATION OF SOUTHEASTERN BIOLOGISTS, Concord, NC. March 31-April 3, 2016.
- Warzecho LM, **Kiser KB**. Antibiotic-producing bacteria finds home in Cape Fear River. NORTH CAROLINA BRANCH MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, North Carolina State University, Raleigh, NC. October 3, 2015.
- Celli JM, Jackson KG, McKenna KL, Passerella C, **Kiser KB**. Experiencing Transformative Education through Applied Learning (ETEAL): Development of a Free STI Test for College Students. AMERICAN SOCIETY FOR MICROBIOLOGY GENERAL MEETING, New Orleans, LA. May 30-June 2, 2015.

SELECTED STUDENT POSTER PRESENTATIONS (continued)

- Fairfax AK, Mason MC, Madarasz KE, Allen SK, Lathrop T, Patel S, Harrell D, Coombs T, **Kiser KB**. Interdisciplinary Research to Synthesize and Analyze Activities of Antibacterial Compounds Brings Together Undergraduate Students from Chemistry and Biology. AMERICAN SOCIETY FOR MICROBIOLOGY GENERAL MEETING, New Orleans, LA. May 30-June 2, 2015.
- Randise JF, Martini AM, DeSandre LA, Fairfax AK, Mason MC, Schilke RM, **Kiser KB**. Nose and Throat Carriage Rates for *Staphylococcus aureus* in Undergraduate Nursing Students. COLONIAL ACADEMIC ALLIANCE UNDERGRADUATE RESEARCH CONFERENCE, Drexel University, Philadelphia, PA. March 27-29, 2015.

PUBLICATIONS

Original Articles

- Erwin PM, Rhodes RG, **Kiser KB**, Keenan-Bateman TF, McLellan WA, and Pabst DA. 2017. High diversity and unique composition of gut microbiomes in pygmy (*Kogia breviceps*) and dwarf (*K. sima*) sperm whales. *Scientific Reports* 7:7205. doi:10.1038/s41598-017-07425-z
- Portoles M, **Kiser KB**, Bhasin N, Chan KHN, Lee JC. 2001. *Staphylococcus aureus* Cap50 has UDP-ManNAc dehydrogenase activity and is essential for capsule expression. *Infection and Immunity*. 69:917-923.
- Pohlmann-Dietze P, Ulrich M, **Kiser KB**, Doring G, Lee JC, Fournier J-M, Botzenhart K, Wolz C. 2000. Adherence of *Staphylococcus aureus* to endothelial cells: Influence of the bacterial growth phase, the global regulator *agr* and capsular polysaccharide. *Infection and Immunity*. 68:4865-4871.
- Schmidt MG, **Kiser KB**. 1999. SecA: The ubiquitous component of preprotein translocase in prokaryotes [Review]. *Microbes & Infection*. 1:993-1004.
- **Kiser KB**, Cantey-Kiser JM, Lee JC. 1999. Development and characterization of a *Staphylococcus aureus* nasal colonization model in mice. *Infection and Immunity*. 67:5001-5006.
- **Kiser KB**, Bhasin N, Deng L, Lee JC. 1999. *Staphylococcus aureus* cap5P encodes a UDP-N-acetylglucosamine 2-epimerase with functional redundancy. *Journal of Bacteriology*. 181:4818-4824.
- **Kiser KB**, Schmidt MG. 1999. Regulation of the *Escherichia coli* secA gene is mediated by two distinct RNA structural conformations. *Current Microbiology*. 38:113-121.
- **Kiser KB**, Lee JC. 1998. *Staphylococcus aureus* cap50 and cap5P genes functionally complement mutations affecting enterobacterial common-antigen biosynthesis in *Escherichia coli*. *Journal of Bacteriology*. 180:403-406.
- **Kiser KB**, Arnaud P, Schmidt MG. 1994. Rapid purification of native SecA from *Escherichia coli*: Development of a new affinity chromatography procedure. *Current Microbiology*. 29:323-329.

Books

- **Kiser K**. 2014. *Microbiology of Human Diseases: Laboratory Techniques and Applications*. Dubuque, IA: Kendall Hunt Publishing Company.
- **Kiser K**. 2011. *Applying the Tools of the Microbiologist*. Dubuque, IA: Kendall Hunt Publishing Company.