**CURRICULUM VITAE**

**Personal Information**

**Dorothea K. Thompson, MS, PhD, JD**

Tenured Professor of Microbiology & Immunology

Vice-Chair, Curriculum and Educational Development,

 Pharmaceutical Sciences Degree Programs

Department of Pharmaceutical & Clinical Sciences

College of Pharmacy & Health Sciences (CPHS)

Campbell University

PO Box 1090

Buies Creek, NC 27506

Phone: 910.893.7463

Email: dthompson@campbell.edu

**Education**

###### 1982–1986 B.A. Microbiology and English, *Summa cum Laude*, Phi Beta Kappa

 University of Tennessee (Knoxville, TN)

1986–1989 M.S. Anaerobic Microbiology

 Virginia Polytechnic Institute and State University (Blacksburg, VA)

Thesis: Acetoacetyl Coenzyme A-Reacting Enzymes in Solvent-Producing *Clostridium beijerinckii* B593

Advisor: Jiann-Shin Chen, PhD

1990–1992 M.A. English (specialization in Technical Writing)

 Department of English

 Pennsylvania State University (University Park, PA)

Thesis: Arguing for Experimental Facts in Science: A Study of Research Article Results Sections in Biochemistry

1992–1997 Ph.D. Molecular Microbiology

 Department of Microbiology

 The Ohio State University (Columbus, OH)

Dissertation: Regulation of Gene Transcription in the Archaeon *Haloferax volcanii* Using the Heat Shock Response as a Model System

Advisor: Charles J. Daniels, PhD

2009–2012 J.D. Law (concentration in Intellectual Property Law)

 University of Tennessee College of Law (Knoxville, TN)

 *Tennessee Law Review* (2010-2012)

**Postdoctoral Fellowships and Training**

**Postdoctoral Research Associate** 12/1999–09/2001

Environmental Sciences Division

Oak Ridge National Laboratory, Oak Ridge, TN

Mentor: Dr. Jizhong Zhou, PhD

* Identified gene candidates in the ferric iron responsive regulon using targeted gene mutagenesis and DNA microarray technology.
* Contributed to the development of the *Community Genome Array*, a microarray-based whole-genome hybridization platform for the detection of microorganisms in natural environments.

**Oak Ridge Institute for Science and Education (ORISE) Fellow** 02/1998–11/1999 Division of Bacterial, Parasitic and Allergenic Products

Center for Biologics Evaluation and Research

U.S. Food and Drug Administration, Bethesda, MD

Mentor: Dr. Margaret C. Bash, MD

* Developed and applied a genotyping system for pathogenic *Neisseria gonorrhoeae* strains based on biotinylated oligonucleotide probes to porin gene variable regions.
* Evaluated the immunogenicity of synthetic peptide vaccines comprising cyclic, lipid-tailed peptide loops incorporated into liposomes.

# Professional Experience

9/2022–current **Professor with Tenure, Microbiology & Immunology**

**Vice-Chair, Curriculum and Educational Development, Pharmaceutical Sciences Degree Programs**

Department of Pharmaceutical and Clinical Sciences

College of Pharmacy & Health Sciences

Campbell University

Buies Creek, North Carolina

1/2022–9/2022 **Associate Professor of Microbiology & Immunology**

Department of Pharmaceutical and Clinical Sciences

College of Pharmacy & Health Sciences

Campbell University

Buies Creek, North Carolina

1/2015–12/2021 **Associate Professor of Microbiology & Immunology**

Department of Pharmaceutical Sciences

College of Pharmacy & Health Sciences

Campbell University

Buies Creek, North Carolina

2014–2021 **Scientific Consultant & Writer**

Microbial Insights, Inc.

Knoxville, Tennessee

2014 **Attorney Contractor**

Nelson Mullins Riley & Scarborough, LLP

Nashville, Tennessee

2011–2013 **Technology Advisor & Patent Law Clerk**

Luedeka Neely Group, P.C.

Knoxville, Tennessee

2009–2011 **Research Scientist II**

Center for Environmental Biotechnology

University of Tennessee

Knoxville, Tennessee

2005–2009 **Assistant Professor of Microbiology**

Department of Biological Sciences

Purdue University

West Lafayette, Indiana

2004–2005 **Group Leader, Microbial Ecology & Functional Genomics**

 Environmental Sciences Division

Oak Ridge National Laboratory

Oak Ridge, Tennessee

2002–2005 **R&D Associate Staff Scientist**

 Environmental Sciences Division

 Oak Ridge National Laboratory

 Oak Ridge, Tennessee

2001–2002 **Research Assistant Professor, Joint Position w/ Michigan State Univ**

 Environmental Sciences Division

 Oak Ridge National Laboratory

 Oak Ridge, Tennessee

**Licensure, Certifications and Specialized Training**

* Mabel Powell Quality Training Online Course Design Certification, Campbell University, Summer 2020.
* Collaborative Institutional Training Initiative (CITI) Program Course, Human Research (Curriculum Group), Group 1: Biomedical Investigators (Course Learner Group-Basic Course), completed May 2019.
* Bar Admissions
* State Bar of Tennessee, BPR No. 33,584
* U.S. Patent and Trademark Office, Registration No. 70,974
* *Certificate in Supervisory Management*, Department of Professional and Personal Development, University of Tennessee, Knoxville, TN, January 2005. Modules included Problem Solving and Decision Making, Maximizing Talent by Understanding Diverse Workforces, and Performance Management.
* Training course on *Prokaryotic Annotation and Analysis*, The Institute for Genomic Research, Rockville, MD, November 12-14, 2002.

**Professional Society Memberships**

2019–current *Associate Member*, Infectious Diseases Society of America (IDSA)

2015–2017 *Affiliate Member*, American Association of Colleges of Pharmacy (AACP)

 *Alternate Delegate*, AACP, 2017

1989–current *Member*, American Society for Microbiology (ASM)

2021–current North Carolina ASM Branch

2005–2009 Indiana ASM Branch

1992–1997 Ohio ASM Branch

**Honors and Awards**

2022 **Recipient, CPHS Research Award,** College of Pharmacy & Health Sciences, Campbell University

2021 **CPHS Teaching Innovation Award: Critical Thinking**, Campbell University College of Pharmacy & Health Sciences, **Second-Place Award**.

* Created a new course, *Microbiology: A Clinical Approach* (PHSC 285), that integrates laboratory simulations with critical thinking challenges.

2021 **Nominated, CPHS Research Award,** CampbellUniversity

1. Five Years of Service Award, Campbell University

2019 **P1 Pharmacy Professor of the Year Award,** Campbell University College of Pharmacy & Health Sciences

1. CPHS Excellence Award,*P1**Pharmacy Professor Most Likely to Write the Most Challenging Exam Questions*, Campbell University College of Pharmacy & Health Sciences
2. Faculty Development Grant ($2,250), Campbell University
3. **Dean’s Award for Excellence in Teaching,** Campbell University College of Pharmacy & Health Sciences
4. **P1 Pharmacy Professor of the Year Award,** Campbell University College of Pharmacy & Health Sciences

2017 CPHS Superlative Award**,** *P1**Pharmacy Professor Most Likely to Keep Your Attention*,Campbell University College of Pharmacy & Health Sciences

1. **P1 Pharmacy Professor of the Year Award,** Campbell University College of Pharmacy & Health Sciences
2. CPHS Superlative Award**,** *P1**Pharmacy* *Professor Most Likely to Keep Your Attention*,Campbell University College of Pharmacy & Health Sciences
3. Jerry J. Phillips Comment Award, *Tennessee Law Review*, University of Tennessee College of Law
4. Semifinalist Advocate in Southern Regional Competition, 39th Annual AIPLA Giles Sutherland Rich Memorial Moot Court Competition
5. James R. & Nell W. Cunningham First Year Best Brief Award**,** University of Tennessee College of Law
6. Judge Harry W. Laughlin, Jr., Case Note Award, *Tennessee Law Review*, University of Tennessee College of Law
7. Supplemental Performance Award, Oak Ridge National Laboratory
8. Supplemental Performance Award, Oak Ridge National Laboratory
9. Supplemental Performance Award, Oak Ridge National Laboratory
10. *J. Robie Vestal* Award for Best Research Poster, Ohio Branch of the American Society for Microbiology
11. Marquis Who’s Who of American Women

1989 Braucher Award ($3,000), Pennsylvania State University

1. Omicron Delta Kappa Honorary Leadership Society**,** Virginia Tech University
2. Phi Beta Kappa Honor Society**,** University of Tennessee

1984 Margaret Elizabeth Hodges Scholarship, University of Tennessee

1. Phi Kappa Phi Honor Society**,** University of Tennessee

1983 Frederick T. Bonham Scholarship, University of Tennessee

1983 Golden Key National Honor Society, University of Tennessee

1. Woman of Achievement Award for Outstanding Accomplishment in Scholarship, University of Tennessee

**Teaching Record**

**Campbell University, College of Pharmacy & Health Sciences**

***Undergraduate Courses***

2021–current **Co-Course Director**, PHSC 285 *Microbiology: A Clinical Approach* w/ Laboratory (4.0 CH)

2017–current Instructor, PHSC 328 *Introduction to Pharmacology* (4.0 CH)

 Topic – Immune System

2017–current **Course Director**, PHSC 451 *Scientific & Technical Writing* (2.0 CH)

2016–2018 **Course Director**, PHSC 334 *Scientific Literature Seminar I* (1.0 CH)

***Graduate (MS) Courses***

2021–current **Course Director**, PSCI 510 *Professional Pharmaceutical Development I* (0.5 CH)

2021–current Instructor, PSCI 530 *Professional Pharmaceutical Development II* (0.5 CH)

Fall 2020 Instructor, PSCI 510 *Professional Pharmaceutical Development I* (0.5 CH)

***Courses in the Doctor of Pharmacy (PharmD) Program***

2022–current **Course Director**, PHRD 632 *Pharmacogenomics I* (1.0 CH)

2020–current Instructor, PHRD 736 IP-X: *Hematology/Oncology* (5.0 CH)

Spring 2020 Instructor, PHRD 731 IP-IX: *Dermatology & Nutrition* (2.0 CH)

2019–current Instructor, PHRD 721 IP-VIII: *Pulmonary, Otic, Ophthalmic* (5.0 CH)

2019–current Instructor, PHRD 711 IP-VII: *Musculoskeletal* (4.5 CH)

2019–current Instructor, PHRD 641 IP-VI: *Neurology/Psychiatry* (5.0 CH)

2019–current Instructor, PHRD 631 IP-V: *Gastrointestinal* (4.5 CH)

2019–current Instructor, PHRD 632 *Pharmacogenomics I* (1.0 CH)

2018–current **Primary Course Director**, PHRD 531 IP-I: *Infection & Immunity* (5.5 CH)

2018–current Instructor, PHRD 533 *Pharmacy Practice Skills III* (1.0 CH)

2018–current Instructor, PHRD 541 IP-II: *Endocrine* (5.0 CH)

2017–current Instructor, PHRD 511 *Biomedical Foundations* (4.0 CH)

Fall 2017 Instructor, PHAR 408 *Biology of Diseases* (5.0 CH)

 Topics – Immunological Diseases & Infections

Spring 2016 Instructor, PHAR 423 *Pharmacology & Medicinal Chemistry IV* (3.0 CH)

 Topics – Introduction to Antiviral Therapy (DNA and RNA Viruses),

Organ Transplant & Immunosuppression, Immunosuppressive Drugs

2016–2018 Guest Lecturer, PHAR 511 *Jurisprudence* (3.0 CH)

Topic – Biosimilars: Scientific and Regulatory Guidelines for Student Pharmacists

2016, 2017 Instructor, PHAR 308 *Clinical Biochemistry* (3.0 CH)

 Topic – Immunoglobulin Blood Disorders

2015, 2016 **Course Director**, PHAR 312 *Medical Microbiology* (4.0 CH)

2015–2017 **Course Director**, PHAR 310 *Immunology* (3.0 CH)

**Purdue University, Department of Biological Sciences**

***Undergraduate Courses***

2006–2008 **Course Director**, BIOL 438 *General Microbiology* (3.0 CH)

***Graduate (MS/PhD) Courses***

2008–2009 **Course Director**, BIOL 663 *Seminar Methods & Professional Development II* (1.0 CH)

Spring 2008 **Course Director**, BIOL 696P *Seminar in Prokaryotes* (1.0 CH)

**Mentoring and Student Committee Service**

**Campbell University**

|  |  |  |
| --- | --- | --- |
| **Student** | **Role (Research Area or Thesis Title)** | **Inclusive Dates or Degree Awarded** |
| Cydney Nicholson (P1)Briana Williams (P2) | **Co-Faculty Research Advisor** **& PHRD 651 Research Mentor** (Prevalence and risk factors for sexually transmitted infections in North Carolina) | 1/2021 – current  |
| Olivia Hill (P2)Rana Oueijan (P3) | **Co-Faculty Research Advisor** (Adverse events associated with mRNA-based COVID-19 vaccines) | 6/2021 – 7/2022 |
| Lindsey Miller (P2)Linda Nguyen (P2)Philip Oji (P2)Aliyah Patton (P2) | **Co-Faculty Advisor, PHRD 651 Research in Pharmaceutical Sciences** (Risk Factors for COVID-19 cases in rural vs. non-rural North Carolina counties) | 1/2021 – 10/2021 |
| Sumner Miller (P3)Adriana Muradyan (P3) | **Faculty Research Advisor** (Antimicrobial resistance profiles of urinary tract *Escherichia coli* isolates at a North Carolina general hospital: Comparison of setting and community classification) | 8/2020 – 8/2021  |
| Melissa Allard (P3)Ashli Heustess (P3) | **Co-Faculty Research Advisor** (COVID-19: A systematic review of therapeutics) | 8/2020 – 4/2021  |
| Tristyn Cartrette (P4) | **PHAR 675 Advisor** for Advanced Pharmacy Practice Experience (APPE) rotation in teaching | 1/2020 – 2/2020 |
| Amanda Smith (P2), Amber Jefferson (P2) | **Co-Faculty Advisor, PHRD 651 Research in Pharmaceutical Sciences** (*Neisseria gonorrhoeae*: Update on vaccine progress for high-risk individuals) | 4/2020 – 2/2021 |
| Sumner Miller (P2)Adriana Muradyan (P2) | **Faculty Advisor, PHRD 651 Research in Pharmaceutical Sciences** (Antimicrobial resistance patterns of uropathogenic *Escherichia coli* in a rural and urban setting: A five-year retrospective study of antibiotic susceptibility data) | 8/2019 – 11/2019 |
| Isabel Alcala-Williams (P3),Tristyn Cartrette (P3), Amber Hill (P3), Chantley Thomas (P3) | **Co-Faculty Advisor, PHAR 504 Research in Pharmaceutical Sciences** (Utilization of Pharmacogenomics in Clinical Practice and Research) | 3/2018 – 7/2020 |
| Sarah Chandler (P2/P3)Ikenna Okafor (P2/P3) | **Faculty Research Advisor** (Indwelling medical device use and sepsis risk at a health professional shortage area hospital) | 10/2018 – 1/2020 |
| Tristyn Cartrette (P3), Amber Hill (P3), Isabel Alcala-Williams (P3), Chantley Thomas (P3) | **Advisor, Health Professions COMBINE Proposal and Presentation** (“Using Genetic Testing to Optimize Patient Care”) | 10/17/2018 |
| Ruta Shinde (MS2) | **MSPS Project Committee Member** (“Comparison of sfGFP Expression in *Geobacillus kaustophilus* DSM 7263 Cells Transformed with Plasmid pJZ04e vs. Integrative Plasmid pTM33c”) | MS, 05/2018 |
| Nidhi Shah (MS2) | **MSPS Project Committee Member** (“Utilization of *thyA* Genes from *Geobacillus*-Infecting Bacteriophages GBK1 and GBK2 to Develop a Counter-Selection System in an *E. coli* *thyA*- Mutant Strain”) | MS, 05/2018 |
| Peter Ginn (P3) | **Faculty Research Advisor** (Urinary catheter colonization by multidrug-resistant *Cedecea neteri* in patient with benign prostatic hyperplasia) | 1/2018 – 5/2018 |
| Alyssa Massengill (P2/P3) | **Faculty Research Advisor** (Risk factors for sepsis morbidity in a rural hospital population) | 11/2016 – 11/2017 |

**Purdue University**

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| **Individual** | **Role (Thesis/Dissertation Title or Research Area)** | **Inclusive Dates or Degree Awarded** |
| ***Associate Research Scientist*** |
| Dr. Gene S. Wickham, PhD | **Supervisor** (Phylogenetics of chromate-reducing microbial communities in subsurface soil microcosms) | 3/2007 – 7/2009 |
| ***Postdoctoral Associates*** |
| Dr. Tina Henne, PhD | **Postdoctoral Supervisor** (DNA-binding specificity of a response regulator in *Shewanella oneidensis* MR-1; application of multifunctional nanoparticles in a chemical imaging platform to map localization of metal bioreduction sites in single cells) | 01/2009 – 10/2009 |
| Dr. Vilas Shukla, PhD | **Postdoctoral Supervisor** (Overexpression and purification of a polyhistidine-tagged DNA-binding response regulator involved in metal stress response pathways) | 10/2005 – 8/2007 |
| ***Graduate Students*** |
| Wei Wei | **Major Advisor, Non-thesis MS** (Characterization of the structural organization and promoter region of a gene encoding a DNA-binding response regulator)  | MS, 05/2009 |
| Irina Mugerfeld | **Major Advisor and MS Thesis Committee Chair** (Thesis Title: “Transcriptional and Functional Characterization of a Putative Azoreductase Gene in *Shewanella oneidensis* MR-1”) | ThMS, 12/2008 |
| Eric Warrick | **MS Thesis Committee Member** (“Isolation of *gpmA*, the Last Genetically Characterized Glycolytic Mutation in *Enterobacteriaceae*”) | ThMS, 05/2008 |
| Rachael Beard | **Chair, PhD Examining Committee** (RNA viruses) | 2008 – 2009  |
| Brittany Gasper | **Chair, PhD Examining Committee** (Osmotic regulation of *proU* in *Salmonella typhimurium*) | 2007 – 2009  |
| Weimin Chen (Agronomy Dept.) | **MS Thesis Committee Member** (Chromate resistance genes and annotation of the *Arthrobacter* sp. FB24 genome) | ThMS, 12/2007 |
| Tina Henne | **PhD Examining Committee Co-Chair** (“Genetic, Proteomic and Physiological Characterization of the Chromate Response in *Arthrobacter* sp. Strain FB24”) | PhD, 12/2007 |
| Melissa Thompson (University of Tennessee, Knoxville) | **External PhD Examining Committee Member** (“Integrating Mass Spectrometry Based Proteomics and Bioinformatics Technologies for the Molecular Level Characterization of *Shewanella oneidensis* to Chromate Exposure”) | PhD, 11/2007 |
| Stephanie Thieman | **Major Advisor, PhD Student** (Metabolic activity of microbial consortia in chromate-contaminated microcosms) | 08/2007 – 05/2009 |
| ***Undergraduate Students*** |
| Matt Rudisill | **Advisor, Howard Hughes Medical Internship** (Phylogenetics of subsurface microbial communities in chromate-impacted soils) | Summer 2007 & 2008 |
| Brittany Law | **Advisor, Howard Hughes Medical Internship** (Functional characterization of an azoreductase gene in *Shewanella oneidensis* MR-1) | Summer 2007 |
| Andrea McCarthy | **Advisor, Undergraduate Research** (Effects of chromate on soil microbial community structure and function) | 09/2007 – 05/2008 |
| Misha Nazareno | **Advisor, Howard Hughes Medical Internship** (Growth response of *Shewanella oneidensis* to metal stress) | Summer 2006 |

**Oak Ridge National Laboratory**

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| **Postdoctoral Associate** | **Role (Research Project)** | **Inclusive Dates** | **Current Institution/ Position** |
| Karuna Chourey, PhD | **Postdoctoral Supervisor** (Transcriptomics and proteomics of a response regulator (SO2426)-deficient strain of *Shewanella oneidensis* MR-1) | 10/2003 –09/2005 | Director, Cultivation Research and Operations at Plantible Foods (San Diego, CA) |
| Steven D. Brown, PhD | **Postdoctoral Supervisor** (Molecular dynamics of the *Shewanella oneidensis* response to chromate stress) | 10/2002 – 11/2005 | Staff Scientist, Oak Ridge National Laboratory |
| Adam B. Leaphart, PhD | **Mentor** (Differential gene expression in response to acidic and alkaline pH in *Shewanella oneidensis*) | 06/2002 – 09/2003 | Staff Scientist, State Department of Health, SC |
| Xiu-Feng Wan, PhD | **Mentor** (Transcriptomic analysis of the ferric uptake regulator (FUR) modulon in *Shewanella oneidensis*)  | 09/2002 – 11/2003 | Professor, University of Missouri, School of Medicine |

**Academic Committee Service**

**Campbell University**

2022–current *Member*, Pharmacy Self-Study Committee

* *Lead*, Self-Study Subcommittee Section 2B (Pharmacy Accreditation, Standards 10-13) for ACPE Evaluation Site Visit
* Primary writer responsible for drafting narrative for ACPE Standard 10 (*Curriculum Design, Delivery, and Oversight*)

2022–current *Member*, Leadership Committee, Department of Pharmaceutical & Clinical Sciences

2022–current *Co-Chair*, Curriculum Committee, Department of Pharmaceutical & Clinical Sciences

2022–current *Member*, Admissions and Recruitment Committee, Department of Pharmaceutical & Clinical Sciences

2022–current *CPHS Representative*, Phi Kappa Phi Fellowship Committee

2022–current *Immediate Past Co-Chair*, Pharmacy Curriculum Committee

2022 *Member*, CPHS Excellence Awards Committee

2021–current *Member*, CPHS Faculty & Staff Development Committee

2021–2022 *Member*, Pharmaceutical Sciences MSPS Graduate Admissions Committee

2021–2022 *Immediate* *Past Chair*, Pharmaceutical Sciences Graduate Academic Performance & Standards Committee

2019–current *Pharmaceutical Sciences Representative*, University Faculty Senate

* ***Faculty Senate Secretary***, 2021–current
* *Member*, Teaching Resource Center Subcommittee, 2022
* ***Chair***, Online Learning Resources Subcommittee, 2021
* *Member*, Bylaws Subcommittee, 2019

2019–current *Member*, University Laboratory Safety Committee

April 2021 Pharmaceutical Sciences Strategic Plan Working Group

2019 *Member*, Medicinal Chemistry Faculty Search Committee, Department of Pharmaceutical Sciences

2018–2021 ***Chair***, Pharmaceutical Sciences Graduate Academic Performance & Standards Committee

2018–2022 *Member*, CPHS Educator Award Task Group

2017–2022 ***Co-Chair***, Pharmacy Curriculum Committee

2017–current *Member*, CPHS Curriculum Council

2017–2022 *Member*, Pharmacy Leadership Council

1. ***Chair***, Ad Hoc Committee to Develop Block Exam Guidelines

2017 *Member*, Biochemistry Faculty Search Committee, Department of Pharmaceutical Sciences

2017–current ***Co-Advisor***, Kappa Epsilon Pharmacy Fraternity, Alpha Rho Chapter

2016–2017 ***Chair***, Anatomy & Physiology Faculty Search Committee, Department of Pharmaceutical Sciences

2016 *Member*, Ad Hoc Taskforce Committee for Policy Development, Redesigned PharmD Curriculum

2016–2017 *Member*, Pharmacy Curriculum Committee

2016 *Member*, CPHS Search Committee for Associate Dean of Academic Affairs Position

2016 *Member*, Embedded Assessment Subcommittee, Pharmacy Assessment Committee

2015–2019 *Member*, Pharmacy Assessment Committee

2015–2017 PharmD Curriculum Revision Subcommittees (Curriculum Development)

* Block 1, Biomedical Foundations (***Leader***)
* Block 3, IP-1: Infection and Immunity (*Member*)
* Block 4, IP-II: Endocrine (*Member*)
* Block 7, IP-V: Gastrointestinal (*Member*)
* Block 9, IP-VII: Musculoskeletal (*Member*)
* Block 11, IP-X: Hematology/Oncology (*Member*)

2015–2018 *Member*, Pharmaceutical Sciences Assessment Committee

2015–2018 *Member*, Pharmaceutical Sciences Graduate Academic Performance & Standards Committee

2015–2018 *Member*, Pharmaceutical Sciences Curriculum Committee

2015–2016 *Member*, CPHS Educational Resources Committee

**Purdue University**

2005–2009 *Member*, Microbiology & Molecular Genetics Group, Department of Biological Sciences

2005–2009 *Member*, Purdue University Interdisciplinary Life Sciences Graduate Program (PULSe), *Microbes and Their Environment* Training Group

2006–2008 *Member*, Graduate Admissions & Recruiting Committee, Department of Biological Sciences

2006–2009 *Member*, Internal Executive Committee, Purdue Center for the Environment

2007–2008 *Member*, Biofuels Faculty Candidate Search Committee, Department of Biological Sciences

2007–2008 *Member*, Clerical Evaluation Committee (*Ad Hoc*), Department of Biological Sciences

2008–2009 *Member*, Undergraduate Studies Committee, Department of Biological Sciences

**Other Professional Service Activities**

* Faculty judge, MS student poster presentations, 5th Annual Interprofessional Health Sciences Research Symposium, Campbell University, April 13, 2015.
* Facilitator, Interprofessional Education (IPE) event (*Prescription Opioid Addiction*), Campbell University, August 18, 2015.
* Faculty reviewer, CPHS scholarship applications, Campbell University, June 2015.
* Facilitator, IPE First-Year Event (*How Do You Measure Up on Teamwork?*), Campbell University, March 20, 2015.
* Facilitator, IPE Health Professions Readiness & Enrichment Program (HPREP) Event, Campbell University, May 20, 2015.
* Facilitator, Interprofessional Case Conference, Campbell University, November 17, 2015.
* Facilitator, IPE Case Study with Standardized Patient, Campbell University, April 12, 2016.
* Teaching Peer Reviewer for Dr. Peter Ahiawodzi (Department of Public Health, CPHS), Campbell University, October 4, 2016.
* Facilitator, IPE First-Year Event (*Finding Your Place on the Healthcare Team*), Campbell University, September 12, 2017.
* Facilitator, IPE Activity Day (*Anthrax Attack*), Campbell University, February 6, 2018.
* Facilitator, IPE Activity Day II (*Anthrax Attack*), Campbell University, April 4, 2018.
* Faculty reviewer, CPHS scholarship applications, Campbell University, June 2018.
* Pharmaceutical Sciences Representative, CPHS Accepted Student Day, March 30, 2019.
* Faculty judge, MS student poster presentations, 9th Annual Interprofessional Health Sciences Research Symposium, Campbell University, April 10, 2019.
* Pharmaceutical Sciences Representative, CPHS Accepted Student Day, November 16, 2019.
* Faculty judge of student poster presentations, MSPS Research Award, Campbell University, April 16, 2020.
* Facilitator, IPE First-Year Event, Campbell University, August 31, 2020.
* Faculty reviewer, CPHS scholarship applications, Campbell University, July 2020.
* Faculty judge of student poster presentations, MSPS Research Award, Campbell University, April 2021.
* Faculty reviewer, CPHS scholarship applications, Campbell University, June 2021.
* iPoster Judge, Outstanding Student Poster Award, World Microbe Forum 2021 (Category: Antimicrobial Agents and Resistance), June 2021.
* Facilitator, IPE First-Year Event, Campbell University, August 30, 2021.
* Facilitator, IPE Quest (Quandaries of Unifying, Energizing, and Superlative Teamwork) event, Campbell University, April 8, 2022.
* Faculty evaluator, Communication Award, BSPS Internship Presentations, April 27, 2022.
* Faculty reviewer, CPHS scholarship applications, Campbell University, May 2022.
* Facilitator for the Middle School STEM Camp at Campbell University, assisted with the SPE separation/pipet work and agarose gel electrophoresis labs, June 14 and 15, 2022.

**Review and Referee Work**

**Editorial Board Membership & Guest Editor**

05/2022–current Invited Guest Editor, Special Issue (“Discovery, Biosynthesis, Bioengineering, and Mechanism of Action of Antibiotics”), *Antibiotics* (impact factor 5.222)

11/2020–12/2021 Invited Guest Editor, Special Issue (“Bacterial Stress Responses and Antibiotic Resistance Phenotypes”), *Antibiotics* (impact factor 4.639)

2016–current Editorial Board Member, *EC Bacteriology and Virology Research*

2015–current Editorial Board Member, *Journal of Pharmaceutical Analytics and Insights*

2011–2012 Executive Editor, *Tennessee Law Review*

2010–2014 Deputy Section Editor, *Microbial Genetics, Genomics and Proteomics* Section, *BMC Microbiology* (5-year impact factor 4.283)

2009–2010 Associate Editor, *BMC Microbiology*

**Grant Review Panels**

* Internal Grant Reviewer, Student Engagement in Research (SER) Grant, College of Pharmacy & Health Sciences, Campbell University, August 2021
* Grant Reviewer, Veni Grant Program of the Innovational Research Incentives Scheme, Netherlands Organization for Scientific Research, 2009
* DOE Grant Reviewer, U.S. Department of Energy Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Program, 2009
* DOE Grant Reviewer, U.S. Department of Energy Environmental Remediation Sciences Program (ERSP), Washington, DC, July 2007
* DOE Grant Reviewer, U.S. Department of Energy Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Program, 2007
* Grant Reviewer, Purdue Agricultural Research Program, Phase I research proposal for DOE FY2006, 2006
* Grant Reviewer, Purdue University Oncological Sciences Center Seed Grant Project, 2006
* Grant Reviewer, Austrian Science Fund, 2006
* DOE Grant Reviewer, U.S. Department of Energy Natural and Accelerated Bioremediation Research (NABIR) Program, Washington, DC, July 2004

***Ad Hoc* Manuscript Review (One or More Manuscripts Reviewed)**

***Journals***

*Antibiotics* (MDPI)

*Biomedicines* (MDPI)

*Genes* (MDPI)

*Vaccines* (MDPI)

*Viruses* (MDPI)

*BMC Infectious Diseases*

*Open Forum Infectious Diseases*

*International Journal of Environmental Research and Public Health* (MDPI)

*International Journal of Molecular Sciences* (MDPI)

*Clinical Medical Reviews and Case Reports*

*Global Journal of Medical and Clinical Case Reports*

*Infection and Drug Resistance*

*Archives of Community Medicine and Public Health*

*Biotechnology & Bioengineering*

*Infection, Disease & Health\**

 \*Served on IDH Rapid Review Panel for COVID-19 manuscripts (2020)

*EC Bacteriology and Virology Research*

*PeerJ*

*Journal of Bacteriology*

*Applied and Environmental Microbiology*

*FEMS Microbiology Letters*

*FEMS Microbiology Reviews*

*Applied Microbiology and Biotechnology*

*Journal of Clinical Microbiology*

*Archives of Microbiology*

*Biochimica et Biophysica Acta—Proteins and Proteomics*

*Genomics*

*Microbiology*

*Canadian Journal of Microbiology*

*Soil Science Society of America Journal*

*BMC Genomics*

*BMC Microbiology*

*Journal of Applied Microbiology*

***Textbooks***

Reviewed two chapters in the undergraduate textbook *Microbiology: An Evolving Science* for the publisher (W.W. Norton & Company, Inc.), April 2009.

**Faculty Promotion Dossier Review**

2019 Dr. Peter D. Ahiawodzi (Associate Professor Appointment), Department of Public Health, Campbell University, Buies Creek, NC

2021 Dr. Nathan Weyand (Associate Professor Appointment), Department of Biological Sciences, Ohio University, Athens, OH

**Consulting Activities**

**Microbial Insights, Inc.**

From June 2014 to December 2021, I served as a scientific consultant and writer for Microbial Insights (MI), Inc., a certified woman-owned small biotechnology company located in Knoxville, Tennessee. MI specializes in the development and application of molecular-based biological tools (*e.g*., quantitative PCR, QuantArray® platforms, and Next-Generation DNA Sequencing) for the characterization of *in situ* microbial communities and the quantification of signature genetic biomarkers relevant to bioremediation and microbiologically influenced corrosion (MIC).

**Primary Responsibilities**

My primary consulting service was to provide technical analysis and interpretation of microbial functional gene data derived from environmental groundwater/soil samples impacted by subsurface chlorinated solvents, petroleum hydrocarbons, and/or pesticides. I also provided guidance, advice, and writing expertise on Small Business Innovation Research (SBIR) grants.

**Work Products**

I consulted on a **total of 213** national and international client projects and prepared Executive Summaries analyzing molecular data generated from qPCR, QuantArray®-Chlor and QuantArray®-Petro assays, and metagenomics-based Next Generation Sequencing (NGS). In addition, I completed **four white papers** (*Microbial Source Tracking*, *NGS-MIC*, *NGS-Remediation*, and *QuantArray®-Chlor*) and **two technical bulletins** (*Biodegradation of Pesticides* and *Preparing for Electron Acceptor Addition & Enhanced Bioremediation*).

**Grants Awarded**

Burroughs Wellcome Fund

Student STEM Enrichment Program (SSEP)

**Academy for Emerging Scholars Exploring Clinical Research and Pharmaceutical Science Careers**

Role: Co-Proposal Developer w/ Tim Marks, Steve Sharkady, Sarah Liu, Vanessa Miller, Charles Carter, and April Daniels

Total Award: $172,422.84

Project Period: 09/01/2022 – 07/31/2025

Campbell University, Interprofessional Education Research Grant

**An Interprofessional Faculty Development Program to Enhance Student Writing Opportunities**

Role: Co-Investigator (15%) w/ Dr. Miranda van Tilburg, PI

Total Award: $5,000

Project Period: 01/2021 – 01/2023

Campbell University, CPHS Internal Research Grant Program

**Antibiotic Resistance in an Emerging Opportunistic Pathogen: Bioinformatic and Functional Characterization of β-Lactamases in *Cedecea neteri***

Role: Principal Investigator w/ Dr. Stephen Sharkady, Co-Investigator

Total Award: $5,000

Project Period: 08/2019 – 06/2021

Campbell University, CPHS Internal Research Grant Program

**Risk Factors for Septicemia-Associated Morbidity and Mortality in Harnett County**

Role: Co-PI (40%) w/ Dr. Peter Ahiawodzi, PI

Total Award: $4,552

Project Period: 08/2016 – 08/2017

NIH-NIEHS

R01 ES017066-02

**Chemical Mapping of Chromate Uptake, Localization, and Reduction in Remediating Bacteria Using Surface-Enhanced Raman Scattering Substrates**

Role: Co-PI (50%) w/ Dr. Joseph Irudayaraj, PI

Total Award: $898,749

Project Period: 12/01/2008 – 11/30/2011

Purdue University Discovery Park Seed Grant

**Consortium for Classification of Microbial Biodiversity in the Caucasus Region**

Role:Co-Investigator (10%) w/ V. Jo Davisson, PI

Total Award: $50,000

Project Period: 03/01/2008 – 01/31/2009

DOE/BER-ERSP (Environmental Remediation Sciences Program)

DE-FG02-07ER64391

**Optimization and Directed, Natural Evolution of Biologically Mediated Chromate Reduction in Subsurface Soil Microcosms**

Role: Principal Investigator w/ Robert L. Hettich, Co-PI

Total Award: $1,815K ($733,422 to Dorothea Thompson, Purdue University; remaining amount to Oak Ridge National Laboratory collaborators)

Project Period: 03/15/2007 – 03/14/2010

DOE/BER-NABIR (Natural and Accelerated Bioremediation Research Program)

DE-FG02-06ER64163

**Elucidating the Molecular Basis and Regulation of Chromium(VI) Reduction by *Shewanella oneidensis* MR-1 and Resistance to Metal Toxicity Using Integrated Biochemical, Genomics and Proteomic Approaches**

Role: Principal Investigator w/ Robert L. Hettich, Co-PI

Total Award: $825,000

Project Period: 03/15/2003 – 03/14/2006

Oak Ridge National Laboratory (ORNL) Seed Money Fund

**Using Live Cell Imaging Technologies to Probe Molecular Interactions between Bacterial Cells and Heavy Metals**

Role: Principal Investigator w/ Mitchel Doktycz & Jennifer Morrell-Falvey, Co-Investigators

Total Award: $125,000

Project Period: 10/2004 – 10/2005

DOE Microbial Cell Project

**Integrated Analysis of Protein Complexes and Regulatory Networks Involved in Anaerobic Energy Metabolism of *Shewanella oneidensis* MR-1**

Role: Co-Investigator (10%) w/ J. Zhou, PI

Total Award: $4,500K

Project Period: 10/1/2001 – 09/30/2006

DOE Microbial Cell Project

**The *Rhodopseudomonas palustris* Microbial Cell Project**

Role: Co-Investigator (5%) w/ R. Tabita, PI

Total Award: $2.1M

Project Period: 10/1/2001 – 09/30/2006

DOE Microbial Genome Program

**Use of DNA Microarrays for Understanding the Genetic and Metabolic Regulation of Carbon Dioxide Fixation and Hydrogen Production in *Rhodopseudomonas palustris***

Role: Co-Investigator (5%) w/ C. Harwood, PI

Total Award: $1.8M

Project Period: 10/1/2001 – 09/30/2004

DOE-NABIR Program

**Development and Use of 16S rRNA Gene-Based Oligonucleotide Microarrays for Assessing Microbial Community Composition and Dynamics**

Role: Co-Investigator (30%) w/ J. Zhou, PI

Total Award: $1,200K

Project Period: 10/1/2000 – 09/30/2003

ORNL, Laboratory Directed Research and Development Program

**Linking Genomics to Cellular Responses and Mechanisms for Radiation Resistance in *Deinococcus radiodurans***

Role: Co-Investigator (25%) w/ J. Zhou, PI

Total Award: $867K

Project Period: 10/1/2000 – 09/30/2002

**Invited Talks**

**National Meetings**

*Optimization and Directed, Natural Evolution of Biologically Mediated Chromate Reduction in Subsurface Soil Microcosms*. Plenary session oral presentation, 4th Annual DOE-ERSP PI Meeting, National Conference Center, Lansdowne, Virginia, April 22, 2009.

*Functional Genomics of the Metal-Reducing Bacterium Shewanella oneidensis MR-1: Insights into Transcription Regulation and Stress Response Pathways*, 11th International Conference on Microbial Genomes, Durham, North Carolina, September 28-October 2, 2003.

*Using Microarray Technology to Analyze Microbial Community Structure and Function in Natural Environments*. The 9th International Conference on Microbial Genomes, Gatlinburg, Tennessee, October 28-November 1, 2001. **Mentioned in Zhou J, Miller JH. Microbial genomics—challenges and opportunities: The 9th international conference on microbial genomes. *J Bacteriol.* 2002;184(16):4327-4333.**

*Oligonucleotide Probes to PI Variable Regions*. Gonococcal Typing Workshop at the 13th Meeting of the International Society for Sexually Transmitted Diseases Research, Denver, Colorado, July 15, 1999.

*The Paradigmatic Narrative in Scientific Discourse*. The 45th Annual Convention Conference on College Composition and Communication – Common Concern, Uncommon Realities: Teaching, Research, and Scholarship in a Complex World. Panel Speaker for L.23 Re-Forming Scientific Discourse, Fisk University, Nashville, Tennessee, March 19, 1994.

**Regional Meetings & Workshops**

Tim Marks and Dorothea Thompson, *Development of an Innovative Undergraduate Course in Microbiology: Integration of Laboratory Simulations with Critical Thinking Challenges*, CPHS Assessment Day Workshop, Campbell University, Buies Creek, North Carolina, December 10, 2021.

*Biosimilars: Scientific and Regulatory Guidelines for Pharmacists.* SR-AHEC Pharmacy CE presentation, Southern Regional AHEC, Fayetteville, North Carolina, December 16, 2016.

*The Rhetorical Presentation of Experimental Facts: A Study of Research Article Results Sections*. The Tenth Annual Penn State Conference on Rhetoric and Composition. Panel Speaker for B4 Rhetoric of Science, Pennsylvania State University, University Park, Pennsylvania, July 10, 1991.

**Universities & Other Institutions**

*Pharmacogenomics: An Introduction to Precision Medicine*, Duke University School of Medicine, First-Year Medical Students, Durham, North Carolina, January 29, 2020.

Curricular Revision Faculty Development Workshop, Wingate University School of Pharmacy. Invited participant on an Expert Revision Panel to discuss pharmacy curricular revision process, May 23, 2019.

Peter Ahiawodzi, Dorothea Thompson & Kimberly Kelly. *Risk Factors for Sepsis Morbidity: A Case-Control Study in a Hospital Population in Harnett County, North Carolina*. CPHS Faculty/Staff Meeting, Campbell University, Buies Creek, North Carolina, August 17, 2017.

Dorothea Thompson and Paul DiMondi, Workshop on *Review of Integrated P1 Pharmacy Curriculum Content*, College of Pharmacy & Health Sciences, Campbell University, March 7, 2017.

*Functional Analysis of Two-Component Response Regulator SO2426 in Shewanella oneidensis MR-1: Implications for Iron Regulation and Metal-Induced Stress*. College of Pharmacy & Health Sciences, Campbell University, Buies Creek, North Carolina, October 30, 2014.

*Insights into Metal Stress Response and Metal Reduction: Integrating Systems Approaches, Computational Analyses, and Nanotechnologies*. Biosciences Division, Argonne National Laboratory, Argonne, Illinois, June 10, 2013.

*Molecular Microbial Ecology of Chromate-Contaminated Soils*. Center for Environmental Biotechnology, University of Tennessee, Knoxville, Tennessee, April 2, 2009.

*From Government to Academe*. Women in Science Program, Purdue University, West Lafayette, Indiana, March 25, 2009.

*Involvement of an Orphan Response Regulator in Metal Stress Response Pathways in* *Shewanella oneidensis*. Department of Microbiology, The Ohio State University, Columbus, Ohio, April 26, 2007.

*Functional Genomics of the Shewanella oneidensis MR-1 Response to Metal Stress*. Department of Microbiology and Biotechnology Institute, University of Minnesota, Minneapolis, Minnesota, March 8, 2007.

*Functional Genomics of the Shewanella oneidensis MR-1 Response to Chromium Stress*. Department of Microbiology, Miami University of Ohio, Oxford, Ohio, April 12, 2006.

*Functional Genomics and Detection of Environmentally Important Microorganisms*. Sandia National Laboratories, Livermore, California, February 2004.

*Functional Genomics of the Metal-Reducing Bacterium Shewanella oneidensis MR-1: Insights into Transcription Regulation and Stress Response Pathways*. Department of Environmental Toxicology, University of California, Santa Cruz, California, February 2004.

*Functional Genomics of the Metal-Reducing Bacterium Shewanella oneidensis MR-1: Insights into Transcription Regulation and Stress Response Pathways*. Department of Biological Sciences, Purdue University, West Lafayette, Indiana, January 20, 2004.

*Microarray Expression Profiling: A Required Component for Describing Complex Cellular Processes from a Systems-Level Perspective*. Life Sciences Division (currently Biosciences Division), Oak Ridge National Laboratory, Oak Ridge, Tennessee, June 20, 2003.

*Transcriptome Dynamics of Deinococcus radiodurans Recovering from Ionizing Radiation*. NASA Astrobiology Institute General Meeting, Phoenix, Arizona, February 10-12, 2003.

*The Development of an Oligonucleotide-Based Genotyping System for* *Neisseria gonorrhoeae*. STD Interest Group, Johns Hopkins University, Baltimore, Maryland, May 19, 1999.

**Patent Application Publication**

Zhou JZ, **Thompson DK**, Wu L. 2003. *Detecting microorganisms using whole genomic DNA or RNA microarray*. Patent Publication No. US 2003/0186220 A1. Assignee: UT Battelle LLC. (patents.google.com/patent/ US20030186220A1).

**Publications**

**Original Research in Peer-Reviewed Journals**

**\****Indicates* *Senior/Corresponding Author*

1. **Thompson\*, D. K.**, Muradyan, A., Miller, A. S. F., and Ahiawodzi, P. D. (2022). Antibiotic resistance of *Escherichia coli* urinary tract infections at a North Carolina community hospital: Comparison of rural and urban community type. *American Journal of Infection Control* 50(1), 86-91. doi: 10.1016/j.ajic.2021.08.032.
2. **Thompson\*, D. K.**, and Sharkady, S. M. (2021). Genomic insights into drug resistance determinants in *Cedecea neteri*, a rare opportunistic pathogen. *Microorganisms* 9:1741. doi: 10.3390/microorganisms9081741.
3. Raccor, B. S., **Thompson, D. K.**, Thomas, C., Hill, A., Shields, K., Alcala-Williams, I., Cartrette, T., Fasinu, P., and Al-Achi, A. (2021). Assessment and clinical utility of pharmacogenomics by health care practitioners in North Carolina. *Pharmacogenomics* 22(1), 13–25. doi: 10.2217/pgs-2020-0108.
4. Ahiawodzi, P. D., Okafor, I., Chandler, S., Kelly, K., and **Thompson\*, D. K.** (2020). Indwelling medical device use and sepsis risk at a health professional shortage area hospital: Possible interaction with length of hospitalization. *American Journal of Infection Control* 48, 1189–1194. doi: 10.1016/j.ajic.2020.02.014.
5. Ginn, P. S., Tart, S. B., Sharkady, S. M., and **Thompson\*, D. K.** (2018). Urinary catheter colonization by multidrug-resistant *Cedecea neteri* in patient with benign prostatic hyperplasia. *Case Reports in Infectious Diseases* 2018:7520527. doi: 10.1155/2018/7520527.
6. Ahiawodzi, P. D., Kelly, K., Massengill, A., and **Thompson\*, D. K.** (2018). Risk factors for sepsis morbidity in a rural hospital population: A case-control study. *American Journal of Infection Control* 46(9), 1041–1046. doi: 10.1016/j.ajic.2018.02.011.
7. **Thompson\*, D. K.**, and Wickham, G. S. (2018). Gammaproteobacteria and firmicutes are resistant to long-term chromium exposure in soil. *Advances in Microbiology Research* 1:002. **doi:**[10.24966/AMR-694X/100002](http://dx.doi.org/10.24966/AMR-694X/100002).
8. Ravindranath, S., Kadam, U. S., **Thompson, D. K.**, and Irudayaraj, J. (2012). Intracellularly grown gold nanoislands as SERS substrates for monitoring chromate, sulfate and nitrate localization sites in remediating bacteria biofilms by Raman chemical imaging. *Analytica Chimica Acta* 745, 1–9. doi: 10.1016/j.aca.2012.07.037.
9. Ravindranath, S., Henne, K., **Thompson, D.**, and Irudayaraj, J. (2011). Raman chemical imaging of chromate reduction sites in a single bacterium using intracellularly grown gold nanoislands. *ACS Nano* 5(6), 4729–4736. doi: 10.1021/nn201105r.
10. Henne, K. L., Wan, X. F., Wei, W., and **Thompson\*, D. K.** (2011). SO2426 is a positive regulator of siderophore expression in *Shewanella oneidensis* MR-1. *BMC Microbiology* 11:125. doi: 10.1186/1471-2180-11-125.
11. Ravindranath, S. P., Henne, K. L., **Thompson, D. K.**, and Irudayaraj, J. (2011). Surface-enhanced Raman imaging of intracellular bioreduction of chromate in *Shewanella oneidensis*. *PLoS One* 6(2):e16634. doi: 10.1371/journal.pone.0016634.
12. **Thompson\*, D. K.**,Chourey, K., Wickham, G. S., Thieman, S. B., VerBerkmoes, N. C., Zhang, B., McCarthy, A. T., Rudisil, M. A., Shah, M., and Hettich, R. L. (2010). Proteomics reveals a core molecular response of *Pseudomonas putida* F1 to acute chromate challenge. *BMC Genomics* 11:311. doi: 10.1186/1471-2164-11-311.
13. Henne, K. L., Nakatsu, C. H., **Thompson, D. K.**, and Konopka, A. E. (2009). High-level chromate resistance in *Arthrobacter* sp. strain FB24 requires previously uncharacterized accessory genes. *BMC Microbiology* 9:199. doi: 10.1186/1471-2180-9-199.
14. Mugerfeld, I., Law, B. A., Wickham, G. S., and **Thompson\*, D. K.** (2009). A putative azoreductase gene is involved in the *Shewanella oneidensis* response to heavy metal stress. *Applied Microbiology and Biotechnology* 82(6), 1131–1141. doi: 10.1007/s00253-009-1911-1.
15. Henne, K. L., Turse, J. E., Nicora, C. D., Lipton, M. S., Tollaksen, S. L., Lindberg, C., Babnigg, G., Giometti, C. S., Nakatsu, C. H., **Thompson, D. K.**, and Konopka, A. E. (2009). Global proteomic analysis of the chromate response in *Arthrobacter* sp. strain FB24. *Journal of Proteome Research* 8(4), 1704–1716. doi: 10.1021/pr800705f.
16. Chourey, K., Thompson, M. R., Shah, M., Zhang, B., VerBerkmoes, N. C., **Thompson**\***, D. K.**, and Hettich\*, R. L. (2009). Comparative temporal proteomics of a response regulator (SO2426)-deficient strain and wild-type *Shewanella oneidensis* MR-1 during chromate transformation. *Journal of Proteome Research* 8(1), 59–71. doi: 10.1021/pr800776d. \*Co-corresponding authors
17. Chourey, K., Wei, W., Wan, X. F., and **Thompson\*, D. K.** (2008). Transcriptome analysis reveals response regulator SO2426-mediated gene expression in *Shewanella oneidensis* MR-1 under chromate challenge. *BMC Genomics* 9:395. doi: 10.1186/1471-2164-9-395.
18. Wu, L., Liu, X., Fields, M. W., **Thompson, D. K.**, Bagwell, C. E., Tiedje, J. M., Hazen, T. C., and Zhou, J. Z. (2008). Microarray-based whole-genome hybridization as a tool for determining prokaryotic species relatedness. *The* *ISME Journal* 2(6), 642–655. doi: 10.1038/ismej.2008.23.
19. Thompson, M. R., **Thompson, D. K.**, and Hettich, R. L. (2008). Systematic assessment of the benefits and caveats in mining microbial post-translational modifications from shotgun proteomic data: Response of *Shewanella oneidensis* to chromate exposure. *Journal of Proteome Research* 7(2), 648–658. doi: 10.1021/pr070531n.
20. Luo, F., Yang, Y., Zhong, J., Gao, H., Khan, L., **Thompson, D. K.**, and Zhou, J. Z. (2007). Constructing gene co-expression networks and predicting functions of unknown genes by random matrix theory. *BMC Bioinformatics* 8:299. doi: 10.1186/1471-2105-8-299.
21. Thompson, M. R., VerBerkmoes, N. C., Chourey, K., Shah, M., **Thompson, D. K.**, and Hettich, R. L. (2007). Dosage-dependent proteome response of *Shewanella oneidensis* MR-1 to acute chromate challenge. *Journal of Proteome Research* 6(5), 1745–1757. doi: 10.1021/pr060502x.
22. Chourey, K., Thompson, M. R., Morrell-Falvey, J., VerBerkmoes, N. C., Brown, S. D., Shah, M., Zhou, J. Z., Doktycz, M., Hettich, R. L., and **Thompson\*, D. K.** (2006). Global molecular and morphological effects of 24-hour chromium(VI) exposure on *Shewanella oneidensis* MR-1. *Applied and Environmental Microbiology* 72(9), 6331–6344. doi: 10.1128/AEM.00813-06.
23. Gao, H., Yang, Z. K., Wu, L., **Thompson, D. K.**, and Zhou, J. Z. (2006). Global transcriptome analysis of the cold shock response of *Shewanella oneidensis* MR-1 and mutational analysis of its classical cold-shock proteins. *Journal of Bacteriology* 188(12), 4560–4569. doi: 10.1128/JB.01908-05.
24. Brown, S. D., Thompson, M. R., VerBerkmoes, N. C., Chourey, K., Shah, M., Zhou, J. Z., Hettich, R. L., and **Thompson\*, D. K.** (2006). Molecular dynamics of the *Shewanella oneidensis* response to chromate stress. *Molecular & Cellular Proteomics* 5(6), 1054–1071. doi: 10.1074/mcp.M500394-MCP200.
25. Leaphart, A. B., **Thompson, D. K.**, Huang, K., Alm, E., Wan, X., Arkin, A., Brown, S. D., Wu, L., Yan, T., Liu, X., Wickham, G. S., and Zhou, J. Z. (2006). Transcriptome profiling of *Shewanella oneidensis* gene expression following exposure to acidic and alkaline pH. *Journal of Bacteriology* 188(4), 1633–1642. doi: 10.1128/JB.188.4.1633-1642.2006.
26. Brown, S. D., Martin, M., Deshpande, S., Seal, S., Huang, K., Alm, E., Yang, Y., Wu, L., Yan, T., Liu, X., Arkin, A., Chourey, K., Zhou, J. Z., and **Thompson\*, D. K.** (2006). Cellular response of *Shewanella oneidensis* to strontium stress. *Applied and Environmental Microbiology* 72(1), 890–900. doi: 10.1128/AEM.72.1.890-900.2006.
27. Liu, Y., Gao, W., Wang, Y., Wu, L., Liu, X., Yan, T., Alm, E., Arkin, A., **Thompson, D. K.**, Fields, M. W., and Zhou, J. Z. (2005). Transcriptome analysis of *Shewanella oneidensis* MR-1 in response to elevated salt conditions. *Journal of Bacteriology* 187(7), 2501–2507. doi: 10.1128/JB.187.7.2501-2507.2005.
28. Wan, X. F., VerBerkmoes, N., McCue, L. A., Stanek, D., Connelly, H., Hauser, L. J., Wu, L., Liu, X., Yan, T., Leaphart, A., Hettich, R. L., Zhou, J. Z., and **Thompson\*, D. K.** (2004). Transcriptomic and proteomic characterization of the Fur modulon in the metal-reducing bacterium *Shewanella oneidensis*. *Journal of Bacteriology* 186(24), 8385–8400. doi: 10.1128/JB.186.24.8385-8400.2004.
29. Gao, H., Wang, S., Liu, X., Yan, T., Wu, L., Alm, E., Arkin, A., **Thompson, D. K.**, and Zhou, J. Z. (2004). Global transcriptome analysis of the heat shock response of *Shewanella oneidensis*. *Journal of Bacteriology* 186(22), 7796–7803. doi: 10.1128/JB.186.22.7796-7803.2004.
30. Wu, L., **Thompson, D. K.**, Liu, X., Fields, M. W., Bagwell, C. E., Tiedje, J. M., and Zhou, J. Z. (2004). Development and evaluation of microarray-based whole-genome hybridization for detection of microorganisms within the context of environmental applications. *Environmental Science & Technology* 38(24), 6775–6782. doi: 10.1021/es049508i.
31. Yost, C., Hauser, L., Larimer, F., **Thompson, D.**, Beliaev, A., Zhou, J. Z., Xu, Y., and Xu, D. (2003). A computational study of *Shewanella oneidensis* MR-1: Structural prediction and functional inference of hypothetical proteins. *OMICS: A Journal of Integrative Biology* 7(2), 177–192. doi: 10.1089/153623103322246575.
32. Liu, Y., Zhou, J. Z., Omelchenko, M., Beliaev, A., Venkateswaran, A., Stair, J., Wu, L., **Thompson, D. K.**, Xu, D., Rogozin, I. B., Gaidamakova, E. K., Zhai, M., Makarova, K. S., Koonin, E. V., and Daly, M. J. (2003). Transcriptome dynamics of *Deinococcus radiodurans* recovering from ionizing radiation. *Proceedings of the National Academy of Sciences USA* 100(7), 4191–4196. doi: 10.1073/pnas.0630387100.
33. Beliaev, A. S., **Thompson, D. K.**, Fields, M., Wu, L., Lies, D. P., Nealson, K. H., and Zhou, J. Z. (2002). Microarray transcription profiling of a *Shewanella oneidensis etrA* mutant. *Journal of Bacteriology* 184(16), 4612–4616. doi: 10.1128/jb.184.16.4612-4616.2002.
34. **Thompson, D. K.**, Beliaev, A. S., Giometti, C. S., Tollaksen, S. L., Khare, T., Lies, D. P., Nealson, K. H., Lim, H., Yates, J., Brandt, C. C., Tiedje, J. M., and Zhou, J. Z. (2002). Transcriptional and proteomic analysis of a ferric uptake regulator (Fur) mutant of *Shewanella oneidensis*: Possible involvement of Fur in energy metabolism, transcriptional regulation and oxidative stress. *Applied and Environmental Microbiology* 68(2), 881–892. doi: 10.1128/aem.68.2.881-892.2002.
35. Beliaev, A. S., **Thompson, D. K.**, Khare, T., Lim, H., Brandt, C. C., Li, G., Murray, A. E., Heidelberg, J. F., Giometti, C. S., Yates, J., Nealson, K. H., Tiedje, J. M., and Zhou, J. Z. (2002). Gene and protein expression profiles of *Shewanella oneidensis* during anaerobic growth with different electron acceptors. *OMICS: A Journal of Integrative Biology* 6(1), 39–60. doi: 10.1089/15362310252780834.
36. Wu, L., **Thompson, D. K.**, Li, G., Hurt, R. A., Tiedje, J. M., and Zhou, J. Z. (2001). Development and evaluation of functional gene arrays for detection of selected genes in the environment. *Applied and Environmental Microbiology* 67(12), 5780–5790. doi: 10.1128/AEM.67.12.5780-5790.2001.
37. **Thompson, D. K.**, Deal, C. D., Ison, C., Zenilman, J., and Bash, M. C. (2000). A typing system for *Neisseria gonorrhoeae* based on biotinylated oligonucleotide probes to PIB gene variable regions. *Journal of Infectious Diseases* 181(5), 1652–1660. doi: 10.1086/315464.
38. **Thompson, D. K.**, Palmer, J. R., and Daniels, C. J. (1999). Expression and heat-responsive regulation of a TFIIB homologue from the archaeon *Haloferax volcanii*. *Molecular Microbiology* 33(5), 1081–1092. doi: 10.1046/j.1365-2958.1999.01551.x.
39. **Thompson, D. K.**, and Daniels, C. J. (1998). Heat shock inducibility of an archaeal TATA-like promoter is controlled by adjacent sequence elements. *Molecular Microbiology* 27(3), 541–551. doi: 10.1046/j.1365-2958.1998.00698.x.
40. Kuo**‡**,Y. P., **Thompson‡, D. K.**, St. Jean, A., Charlebois, R. L., and Daniels, C. J. (1997). Characterization of two heat shock genes from *Haloferax volcanii*: A model system for transcription regulation in the *Archaea*. *Journal of Bacteriology* 179(20), 6318–6324. doi: 10.1128/jb.179.20.6318-6324.1997. (**‡**Co-first authors)
41. **Thompson, D. K.** (1993). Arguing for experimental “facts” in science: A study of research article results sections in biochemistry. *Written Communication* 10(1), 106–128.
42. **Thompson, D. K.**, and Chen, J. S. (1990). Purification and properties of an acetoacetyl coenzyme A-reacting phosphotransbutyrylase from *Clostridium beijerinckii* (“*Clostridium butylicum*”) NRRL B593. *Applied and Environmental Microbiology* 56(3), 607–613. doi: 10.1128/AEM.56. 3.607-613.1990.

**Review Articles**

1. Oueijan, R. I., Hill, O. R., Ahiawodzi, P. D., Fasinu, P. S., and **Thompson\*, D. K.** (2022). Rare heterogeneous adverse events associated with mRNA-based COVID-19 vaccines: A systematic review. *Medicines* 9(8):43. doi: 10.3390/medicines9080043.
2. Heustess, A. M., Allard, M. A., **Thompson, D. K.**, and Fasinu, P. S. (2021). Clinical management of COVID-19: A review of pharmacological treatment options. *Pharmaceuticals* 14(6):520. doi: 10.3390/ph14060520.
3. Jefferson, A., Smith, A., Fasinu, P. S., and **Thompson\*, D. K.** (2021). Sexually transmitted *Neisseria gonorrhoeae* infections—update on drug treatment and vaccine development. *Medicines* 8(2):11. doi: 10.3390/medicines8020011. ***Selected for journal section “Editors’ Choice Articles” (October 2022)*.**
4. **Thompson\*, D. K.**, and Sharkady, S. M. (2020). Expanding spectrum of opportunistic *Cedecea* infections: Current clinical status and multidrug resistance. *International Journal of Infectious Diseases* 100, 461–469. doi: 10.1016/j.ijid.2020.09.036.
5. Johnson, S. W., **Thompson, D. K.**, and Raccor, B. (2017). Hepatitis C virus-genotype 3: Update on current and emergent therapeutic interventions. *Current Infectious Disease Reports* 19(6):22. doi: 10.1007/s11908-017-0578-5.
6. Zhou, J. Z., and **Thompson, D. K.** (2002). Challenges in applying microarrays to environmental studies. *Current Opinion in Biotechnology* 13(3), 204–207. doi: 10.1016/s0958-1669(02)00319-1. **(Invited)**

**Books and Book Chapters**

1. Wan, X. F., and **Thompson, D. K.** (2009). High-throughput technologies and functional genomics (p. 67–113). In: P. Fu & S. Panke, (Eds.) *Systems Biology and Synthetic Biology*. Hoboken, NJ: John Wiley & Sons. **(Invited)**
2. Zhou, J. Z., **Thompson, D. K.**, Xu, Y., and Tiedje, J. M. (2004). *Microbial Functional Genomics*. Hoboken, NJ: John Wiley & Sons, Inc. **First comprehensive book in this field; translated in Chinese.**
3. Zhou, J. Z., **Thompson, D. K.**, and Tiedje, J. M. (2004). Genomics: Toward a genome-level understanding of the structure, functions, and evolution of biological systems (p. 1–19). In: J. Z. Zhou, D. K. Thompson, Y. Xu & J. M. Tiedje (Eds.) *Microbial Functional Genomics*. Hoboken, NJ: John Wiley & Sons, Inc.
4. Zhou, J. Z., and **Thompson, D. K.** (2004). Microbial evolution from a genomics perspective (p. 67–111). In: J. Z. Zhou, D. K. Thompson, Y. Xu & J. M. Tiedje (Eds.) *Microbial Functional Genomics*. Hoboken, NJ: John Wiley & Sons, Inc.
5. Zhou, J. Z., and **Thompson, D. K.** (2004). DNA microarray technology (p. 141–176). In: J. Z. Zhou, D. K. Thompson, Y. Xu & J. M. Tiedje (Eds.) *Microbial Functional Genomics*. Hoboken, NJ: John Wiley & Sons, Inc.
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**Published Abstracts**

1. Muradyan, A., Miller, A. S. F., Ahiawodzi, P. D., and **Thompson\*, D. K.** (2020). Antimicrobial resistance patterns of uropathogenic *Escherichia coli*: Comparison of infection setting and community classification. *Open Forum Infectious Diseases* 2020;7(suppl\_1): S821.

**Non-Refereed Letters to the Editor, Commentaries, Bibliographies**

1. **Thompson, D. K.** (Contributor). Drug Resistance in *Cedecea neteri* [Microbiology]. Scholarly Community Encyclopedia (MDPI). Entry published online at https://encyclopedia.pub/14796 (30 August 2021).
2. **Thompson, D.** (Contributor). Gonorrhea [General Medical Research]. Scholarly Community Encyclopedia (MDPI). Entry published online at https://encyclopedia.pub/8373 (23 February 2021).
3. Ahiawodzi, P. D., Kelly, K., **Thompson\*, D. K.** (2018). Regarding “It is SOFA score rather than quick SOFA (qSOFA) score that constitutes the clinical criteria of sepsis.” [Letter to the Editor]. *American Journal of Infection Control* 46(11), 1316–1317. doi: 10.1016/j.ajic.2018.07.003.
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**Legal Scholarship**

1. **Thompson, D. K.** (2012). Comment, Small Size, Big Dilemma: The Challenge of Regulating Nanotechnology. *Tennessee Law Review* 79(3), 621–668. ***Received the Jerry J. Phillips Comment Award*.**
2. **Thompson, D. K.** (2010). Note, Bankruptcy Law–Dischargeability of Student Loan Debt–Application of Federal Rule of Civil Procedure 60(B)(4) to Discharge-by-Declaration Provisions. United Student Aid Funds, Inc. v. Espinosa, 130 S. Ct. 1367 (2010). *Tennessee Law Review* 78(1), 287–307. ***Received the Judge Harry W. Laughlin Case Note Award*.**
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**Conference Abstracts and Presentations**

**National & International**

1. Ahiawodzi, P., Miller, L., Oji, P., Nguyen, L., Patton, A., and **Thompson, D**. (2021). Coronavirus disease 19 associated health disparities. **Oral presentation** at the 149th Annual Meeting of the American Public Health Association (APHA), Denver, CO, October 24-27, 2021. Session 5020.0: *Topics on Epidemiology of COVID-19* (October 27, 2021).
2. Sharkady, S. M., Bailey, B., and **Thompson, D. K.** (2021). Bioinformatics and functional characterization of an AmpC beta-lactamase from the rare opportunistic pathogen *Cedecea neteri*. iPoster (WMF21-0131) presented at the World Microbe Forum [A Collaboration between the American Society for Microbiology (ASM) & Federation of European Microbiological Societies (FEMS)], online, June 20-24, 2021.
3. Muradyan, A., Miller, A. S. F., Ahiawodzi, P. D., and **Thompson, D. K.** (2020). Antimicrobial resistance patterns of uropathogenic *Escherichia coli*: Comparison of infection setting and community classification. iPoster presented at IDWeek 2020, online, October 21-25, 2020. Abstract ID: 910192, Session: UTIs
4. Ahiawodzi, P., Okafor, I., Chandler, S., Kelly, K., and **Thompson, D.** (2019). Indwelling medical device use and sepsis risk in a rural inpatient setting: Possible interaction with length of hospitalization. **Oral presentation** at the 147th Annual Meeting of the American Public Health Association (APHA), Philadelphia, PA, November 2-6, 2019. Abstract #446516, Session 5016.0: Health Services Epidemiology.
5. Ahiawodzi, P. D., Kelly, K., Massengill, A., and **Thompson, D. K.** (2017). Risk factors for sepsis morbidity: A case-control study in a hospital population in Harnett County, North Carolina. Poster presented at the 145th Annual Meeting of the American Public Health Association (APHA), Atlanta, GA, November 4-8, 2017. Abstract #383793, Session 3213.0: Infectious Disease Research in Epidemiology.
6. Wickham, G. S., Chourey, K., VerBerkmoes, N. C., Thieman, S., Hettich, R. L., and **Thompson, D. K.** (2009). Optimization and directed, natural evolution of biologically mediated chromate reduction in subsurface soil microcosms. Poster presented at the 4th Annual DOE-ERSP PI Meeting, National Conference Center, Lansdowne, VA, April 20-23, 2009.
7. Thieman, S. B., McCarthy, A., Rudisill, M., Wickham, G. S., and **Thompson, D. K.** (2009). Effects of chromate on soil microbial community structure and function. Poster presented at the 109th General Meeting of the American Society for Microbiology, Philadelphia, PA, May 17-21, 2009.
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11. Mugerfeld, I., Law, B., Wan, X. F., Brown, S. D., and **Thompson, D. K.** (2008). Transcriptional and functional characterization of a gene encoding a predicted azoreductase in *Shewanella oneidensis* MR-1. Poster (Abstract K-091) presented at the 108th General Meeting of the American Society for Microbiology, Boston, MA, June 1-5, 2008.
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15. Thompson, M. R., Chourey, K., **Thompson, D. K.**, and Hettich, R. L. (2007). Contrasting the proteome response of wild-type and Δ*2426* strains of *Shewanella oneidensis* MR-1 during Cr(VI) consumption. Poster (Abstract Q-196) presented at the 107th General Meeting of the American Society for Microbiology, Toronto, Canada, May 21-25, 2007.
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23. **Thompson, D. K.** (PI), Chourey, K., Thompson, M. R., Brown, S. D., VerBerkmoes, N. C., and Hettich, R. L. (2006). Functional genomics of the *Shewanella oneidensis* response to chromium stress and involvement of a DNA-binding response regulator. Poster presented at the 11th International Symposium on Microbial Ecology (ISME), Vienna, Austria, August 20-25, 2006.
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75. Kuo, Y. P., **Thompson, D. K.**, and Daniels, C. J. (1994). Characterization and regulation of a heat shock gene from the archaeon *Haloferax volcanii*. **Oral Presentation** (Abstract I-58) at the 94th General Meeting of the American Society for Microbiology, Las Vegas, NV, May 23-27, 1994.
76. **Thompson, D. K.**, Yan, R. T., Walker, M. B., and Chen, J. S. (1989). Phosphotransacetylase (PTA), phosphotransbutyrylase (PTB) and thiolase from *Clostridium beijerinckii*. Poster (Abstract O-77) presented at the 89th General Meeting of the American Society for Microbiology, New Orleans, LA, May 14-18, 1989.

**State/Regional**

1. Nicholson, C., Williams, B., Ahiawodzi, P. D., and **Thompson, D. K.** (2022). Racial disparities associated with increased burden of sexually transmitted infections in North Carolina. Poster presented at the North Carolina Public Health Association (NCPHA) Fall Educational Conference, Wilmington, NC, September 15, 2022. Section: Academic Practice-based Research.
2. Muradyan, A., Miller, A. S. F., Ahiawodzi, P. D., and **Thompson, D. K.** (2020). Three-year antibiotic resistance patterns among urinary tract isolates of *Escherichia coli* at a North Carolina general hospital: Comparison of infection setting and community classification. iPoster (Abstract #17) presented at the North Carolina Association of Pharmacists (NCAP) Annual Convention, Winston-Salem, NC, November 4, 2020.

1. Raccor, B. S., Alcala-Maddox, I., Cartrette, T., Hill, A. K., Shields, K., Thomas, C., Fasinu, P., Al-Achi, A., and **Thompson, D. K.** (2019). Assessment and clinical utility of pharmacogenomics testing by registered pharmacists and other healthcare practitioners in North Carolina. Poster presented at the North Carolina Association of Pharmacists (NCAP) Annual Convention, Winston-Salem, NC, September 27, 2019.
2. **Thompson, D. K.**†, and Daniels, C. J. (1997). *In vivo* functional analysis of an archaeal heat shock promoter. Poster presented at the Joint Meeting of the Indiana, Michigan & Ohio Branches of the American Society for Microbiology, Pokagon State Park, Indiana, April 11 and 12, 1997. **†*Received the J. Robie Vestal Award*.**

**Institution/Local**

1. Nicholson, C., Williams, B., Ahiawodzi, P. D., and **Thompson, D. K.** (2022). Risk factors associated with statewide reported sexually transmitted infections in North Carolina. Poster presented at the 11th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 6, 2022.
2. Oueijan, R. I., Hill, O. R., Ahiawodzi, P. D., Fasinu, P. S., and **Thompson, D. K.** (2022). SARS-CoV-2 vaccine-associated myocarditis/pericarditis: A descriptive statistical analysis of published cases. Poster presented at the 11th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 6, 2022.

1. Muradyan, A., Miller, A. S. F., Ahiawodzi, P. D., and **Thompson, D. K.** (2021). Three-year antibiotic resistance patterns among urinary tract isolates of *Escherichia coli* at a North Carolina general hospital: Comparison of care setting and community classification. Virtual poster presentation at the 10th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 7, 2021.
2. Okafor, I., Chandler, S., Ahiawodzi, P. D., Kelly, K., and **Thompson, D. K.** (2019). Risk factors for sepsis diagnosis in a rural inpatient population: A case-control study. Poster (Abstract #86) presented at the 9th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 10, 2019. ***Poster received IPE Collaboration Recognition*.**
3. Alcala-Maddox, I., Cartrette, T., Hill, A. K., Thomas, C., Fasinu, P., Al-Achi, A., **Thompson, D. K.**, and Raccor, B. S. (2019). Utilization of pharmacogenomics in clinical practice. Poster (Abstract #88) presented at the 9th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 10, 2019. ***Poster received IPE Collaboration Recognition*.**
4. Raccor, B. S., Al-Achi, A., Alcala-Maddox, I., Cartrette, T., Hill, A. K., Thomas, C., Fasinu, P., and **Thompson, D. K.** (2019). Validation of a survey instrument to assess utilization of pharmacogenomics. Poster (Abstract #94) presented at the 9th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 10, 2019. ***Poster received IPE Collaboration Recognition*.**
5. Ginn, P., Sharkady, S., Tart, S. B., and **Thompson, D. K.** (2018). Catheter colonization by multidrug-resistant *Cedecea neteri* in patient with benign prostatic hyperplasia. Poster (Abstract #28) presented at the 8th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 11, 2018.
6. Massengill, A., Kelly, K., **Thompson, D. K.**, and Ahiawodzi, P. D. (2017). Indwelling medical device use is associated with sepsis morbidity in a Harnett Health patient population. Poster presented at the 7th Annual Interprofessional Education Health Sciences Research Symposium, Campbell University, Buies Creek, NC, April 12, 2017.