

10/15/2024

CURRICULUM VITAE

NAME Blake M. Hanson, M.S., Ph.D.

PRESENT TITLE(s) Assistant Professor
Center for Infectious Diseases
Department of Epidemiology, UTHealth School of Public Health at
Houston
University of Texas Health Science Center at Houston

Faculty, Regular Member
Graduate School of Biomedical Sciences
University of Texas Health Science Center at Houston

Adjunct Assistant Professor of Medicine
Department of Medicine
Houston Methodist Academic Institute

ADDRESS RAS E739
1200 Pressler Street
Houston, TX 77030

**UNDERGRADUATE
EDUCATION** Augustana College
Rock Island, IL
September 2004 - May 2008
Degree: Bachelor of Arts

GRADUATE EDUCATION The University of Iowa, College of Public Health
Iowa City, IA
May 2010 – December 2013
Degree: Doctorate of Philosophy, Epidemiology
Thesis: "Determination of the prevalence and incidence,
molecular characterization, and nasal and pharyngeal
colonization patterns of *Staphylococcus aureus* among urban and
rural Iowans"

The University of Iowa, College of Education
Iowa City, IA
September 2011 - May 2013
Degree: Graduate Certificate in College Teaching

The University of Iowa, College of Public Health
Iowa City, IA
September 2008 - May 2010
Degree: Master of Science, Epidemiology

**POSTGRADUATE
TRAINING** Postdoctoral Associate
Weinstock Laboratory
The Jackson Laboratory for Genomic Medicine

January 2014 – August 2017

**ACADEMIC
APPOINTMENTS**

October 2017 – Present
Assistant Professor
Center for Infectious Diseases
Department of Epidemiology, UTHealth School of Public Health at
Houston
University of Texas Health Science Center at Houston

March 2024 – Present
Adjunct Assistant Professor of Medicine
Houston Methodist Academic Institute
Houston, Texas

April 2022 – Present
Faculty, Regular Member
Graduate School of Biomedical Sciences
University of Texas Health Science Center at Houston

September 2021 – September 2024
Assistant Professor
Division of Pediatric Infectious Diseases, McGovern Medical
School
University of Texas Health Science Center at Houston

October 2017 – September 2024
Associate Director of CARMiG
The University of Texas Health Sciences Center
Houston, Texas

October 2017 – September 2021
Assistant Professor
Division of Infectious Diseases, McGovern Medical School
University of Texas Health Science Center at Houston

January 2014 – August 2017
Postdoctoral Associate
Mentor: Dr. George Weinstock
Weinstock Laboratory
The Jackson Laboratory for Genomic Medicine
Farmington, Connecticut

October 2008 – December 2013
Graduate Research Assistant
Center for Emerging Infectious Diseases, The University of Iowa
College of Public Health
Iowa City, Iowa

October 2008 – December 2010
Graduate Research Assistant
Health Effectiveness Research Center, The University of Iowa
College of Public Health

Iowa City, Iowa

PROFESSIONAL ORGANIZATIONS

Local

- Iowa Academy of Science (2009-2010)

National

- American Heart Association (2024 – Current)
- American Society of Microbiology (2009 – Current)
- American Public Health Association (2009, 2024 – Current)
- Infectious Disease Society of America (2013, 2023 – Current)

HONORS AND AWARDS

September 2020 – November 2023, Antimicrobial Resistance Leadership Group (ARLG) Trialist in Training

January 2015 – March 2017, JAX Scholar Postdoctoral Fellow
The Jackson Laboratory for Genomic Medicine

April 2013, Oral Presentation Student Award Winner
2nd Great Plains Emerging Infectious Diseases Conference, Iowa City, Iowa, 2013

April 2013, Poster Session Award Winner
The University of Iowa Health Sciences Research Week
The University of Iowa

September 2011, ASM student presenter travel grant
Funded attendance to the 2nd ASM conference on methicillin-resistant staphylococci in animals, Boston, USA, 2011

May 2009 – May 2010, Elected Vice President
The College of Public Health Student Association
College of Public Health
The University of Iowa

May 2009 – May 2010, Elected President
Epidemiology Student Association
College of Public Health
The University of Iowa

September 2009, ASM student presenter travel grant
Funded attendance to the ASM conference on methicillin-resistant staphylococci in animals, London, England, 2009

PAST AND CURRENT TEACHING ACTIVITIES

Course Instructor, Epidemiology and Control of Infectious Diseases
January 2020 – Current
Course, design, discussion facilitation, instruction
The University of Texas School of Public Health

Course Instructor, Epidemiology III
June 2018 – Current

Blake M. Hanson, M.S., Ph.D.

Course design, discussion facilitation, instruction
The University of Texas School of Public health

Journal Club Coordinator, Summer Student Journal Club
June 2014 – August 2014
Course design, discussion facilitation
The Jackson Laboratory for Genomic Medicine

Teaching Assistant, Epidemiology III: Theories
August 2013 – December 2013
Course design, discussion facilitation, teach select lectures
The University of Iowa

Teaching Assistant, Epidemiology of Infectious Diseases
August 2012 – December 2012
Assist in course design and teach select lectures
The University of Iowa

Teaching Assistant, Epidemiology II: Advanced Methods
January 2012 – May 2012
Assist in course design and teach select lectures
The University of Iowa

Journal Club Coordinator, Department of Epidemiology
October 2011 – May 2013
Bi-weekly journal club
The University of Iowa

Teaching Assistant, Zoonotic Diseases
June 2011
Two-week summer course
The University of Iowa

Video Session Coordinator, Epidemiology of Infectious Diseases
August 2010 – December 2010; August 2011 – December 2011
Video Selection, Core Curriculum
The University of Iowa

Seminar Coordinator, Department of Epidemiology
May 2010 – May 2012
Weekly seminar course
The University of Iowa

**SERVICE – THE
UNIVERSITY OF TEXAS
HEALTH SCIENCES
CENTER**

Co-Coordinator for The Infectious Disease Epidemiology
Certificate
August 2023 - Current
School of Public Health

Texas Epidemic Public Health Institute Wastewater Committee
August 2022 – Current
School of Public Health

Blake M. Hanson, M.S., Ph.D.

Texas SARS-CoV-2 Variant Detection Network Steering
Committee
University of Texas Health Sciences Center
October 2021 – Current

UTHealth COVID-19 Clinical Research Workgroup
July 2020 – January 2022

SPH Preliminary Exam Committee
August 2019 – June 2022
Department of Epidemiology
School of Public Health

SPH Center for Infectious Disease Faculty Search Committee
August 2019 – September 2021
Department of Epidemiology
School of Public Health

SPH Human Genetics Center Faculty Search Committee
August 2019 – July 2020
Department of Epidemiology
School of Public Health

SPH IT Faculty Advisory Committee
January 2019 – current
School of Public Health

SERVICE – EXTERNAL

Early Career Reviewer – NIH Etiology, Diagnostic, Intervention
and Treatment (EDIT) study section
June 2024

American Heart Association Fellowship Reviewer – Genomics
and Translational Biology committee
2023 Cycle – Current

Antimicrobial Resistance Leadership Group Diagnostics
Committee
February 2022 – Current

American Heart Association Career Development Award
Reviewer – Population committee
2022 Cycle

Antimicrobial Agents and Chemotherapy – Editorial Board
January 2021 – Current

**SERVICE – THE JACKSON
LABORATORY**

Postdoctoral Association Co-Founder
February 2014 – August 2017
The Jackson Laboratory for Genomic Medicine

Blake M. Hanson, M.S., Ph.D.

**SERVICE – THE
UNIVERSITY OF IOWA**

Seminar Coordinator
December 2011 – May 2013
Department of Epidemiology
College of Public Health

Journal Club Coordinator
May 2010 – May 2012
Department of Epidemiology
College of Public Health

**SPONSORSHIP OF
CANDIDATES FOR
GRADUATE DEGREE**

Jesus Duran Ramirez
PhD Student in Microbiology and Molecular Genetics
2022 – Current

Hossaena Ayele
PhD Candidate in Epidemiology
2021 – Current

An Q. Dinh
PhD Student in Epidemiology
2021 – Current

Shezeen Gillani
MPH degree conferred 2023
PhD Student in Epidemiology
2020 – Current

Shelby R. Simar, MPH, PhD
MPH degree conferred 2019
PhD conferred 2024
2017 – 2024

William C. Shropshire, MPH, PhD
PhD conferred 2020
2017 – 2020

**SERVICE ON STUDENT
THESIS AND EXAM
COMMITTEES**

Jesus Duran Ramirez, MPH
PhD Thesis
Role: Committee Member
Institution: MD Anderson-UTHealth Houston Graduate School of
Biomedical Sciences
Program: Microbiology and Molecular Genetics
Fall 2023 – Current

Jana Gomez, MS
PhD Thesis
Role: Committee Member
Institution: MD Anderson-UTHealth Houston Graduate School of
Biomedical Sciences
Program: Microbiology and Molecular Genetics
Summer 2022 – Current

Gretchen Morrison
PhD Thesis
Role: Committee Member
Institution: MD Anderson-UTHealth Houston Graduate School of
Biomedical Sciences
Program: Microbiology and Molecular Genetics
Spring 2022 – Current

Olivia Morris
MPH Thesis
Role: Thesis Chair
Institution: UTHealth Houston
Program: Epidemiology
Fall 2022 – Summer 2023

William Shutze, MPH
Integrated Learning Experience
Role: Integrated Learning Experience Preceptor
Institution: UTHealth Houston
Program: Epidemiology
Fall 2022 – Spring 2023

Rachel Atterstrom, MPH
MPH Thesis
Role: Thesis Chair
Institution: UTHealth Houston
Program: Epidemiology
Fall 2022 – Spring 2023

Sreyya Sudharsan Raamasamy, MS
MS Thesis
Role: External Committee Member
Institution: MD Anderson
Program: Diagnostic Genetics
Summer 2022 – Summer 2023

Jesus Duran Ramirez, MPH
MPH Thesis
Role: Committee Member
Institution: UTHealth Houston
Program: Epidemiology
Fall 2021 – Spring 2022

Shelby R. Simar, MPH, PhD
PhD Thesis
Role: Thesis Chair
Institution: UTHealth Houston
Program: Epidemiology
Spring 2021 – Summer 2024

Shezeen Gillani, MPH
MPH Thesis

Blake M. Hanson, M.S., Ph.D.

Role: Thesis Supervisor
Institution: UTHealth Houston
Program: Epidemiology
Spring 2021 – Fall 2021

Fernanda Valasco-Huerta, MPH
MPH Thesis
Role: Committee Member
Institution: UTHealth Houston
Program: Epidemiology
Spring 2021 – Fall 2021

Anika Stakov, MPH
MPH Thesis
Role: Committee Member
Institution: UTHealth Houston
Program: Epidemiology
Spring 2021 – Summer 2021

Katherine Bay, MPH, PhD
PhD Thesis
Role: Committee Member
Institution: UTHealth Houston
Program: Epidemiology
Spring 2021 – Spring 2022

Marissa Gagliardo, MPH
MPH Thesis
Role: Committee Member
Institution: UTHealth Houston
Program: Epidemiology
Fall 2020 – Summer 2021

Yasmine Hoballah, MS
MS Thesis
Role: External Committee Member
Institution: MD Anderson
Program: Diagnostic Genetics
Summer 2020 – Summer 2021

Chioma Odo, PhD
PhD Thesis
Role: External Committee Member
Institution: MD Anderson-UTHealth Houston Graduate School of
Biomedical Sciences
Program: Microbiology and Molecular Genetics
Fall 2019 – Spring 2024

Chioma Odo, PhD
PhD Comprehensive Exam
Role: External Committee Member
Institution: MD Anderson-UTHealth Houston Graduate School of
Biomedical Sciences

Blake M. Hanson, M.S., Ph.D.

Program: Microbiology and Molecular Genetics
Fall 2019 – Spring 2020

Camden Hallmark, MPH, PhD
PhD Thesis
Role: Thesis Chair
Institution: UTHealth Houston
Program: Epidemiology
Spring 2019 – Spring 2021

William C. Shropshire, MPH, PhD
PhD Thesis
Role: Thesis Chair, Thesis Supervisor
Institution: UTHealth Houston
Program: Epidemiology
Fall 2018 – Fall 2020

Kirsten Bevan Rydell, MPH
Master's Thesis
Role: Thesis Chair, Thesis Supervisor
Institution: UTHealth Houston
Program: Epidemiology
Fall 2018 – Spring 2019

Shelby R. Simar, MPH, PhD
MPH Thesis
Role: Thesis Chair, Thesis Supervisor
Institution: UTHealth Houston
Program: Epidemiology
Fall 2018 – Spring 2019

**MENTEES WHO HAVE
SECURED COMPETITIVE
FELLOWSHIP FUNDING
SUPPORT**

Mentee: Henok Tegegne
Fellowship Type: Postdoctoral
Agency: NIH NIAID
Type of Grant: T32
Fellowship Title: *Texas Medical Center Training Program in Antimicrobial Resistance (TPAMR)*
Role: Co-Mentor
Dates of Award: September 2023 – August 2025

Mentee: Mahesh Prasad Bekal
Fellowship Type: Postdoctoral
Agency: Texas CPRIT
Type of Grant: Fellowship
Fellowship Title: *McWilliams School of Biomedical Informatics at UTHealth Houston, Genomics and Translational Cancer Research Training Program (BIG-TCR) Fellowship*
Role: Co-Mentor
Dates of Award: May 2023 – April 2025

Mentee: Taryn Eubank, PharmD
Fellowship Type: Postdoctoral
Agency: NIH NIAID

Blake M. Hanson, M.S., Ph.D.

Type of Grant: T32
Fellowship Title: *Texas Medical Center Training Program in Antimicrobial Resistance (TPAMR)*
Role: Co-Mentor
Dates of Award: July 2021 – June 2023

Mentee: Shelby Simar, MS
Fellowship Type: Predoctoral
Agency: NIH NIAID
Type of Grant: T32
Fellowship Title: *UTHealth Molecular Basis of Infectious Disease Research Training Fellowship*
Role: Mentor
Dates of Award: September 2020 – August 2022

Mentee: Naomi Bier, PhD
Fellowship Type: Postdoctoral
Agency: NIH NCADS
Type of Grant: TL1
Fellowship Title: *UTHealth Center for Clinical and Translational Sciences TL1 Training Program Fellowship*
Role: Mentor
Dates of Award: May 2020 – April 2022

RESEARCH SUPPORT

A. ACTIVE RESEARCH SUPPORT

NIH/NIAID: 2R01AI132354-06 (Krachler)

Mechanoregulation of EHEC Virulence

06/21/2024 – 06/20/2029

This project aims to understand how bacteria sense and respond to physical forces as environmental cues, particularly focusing on enterohemorrhagic *E. coli* (EHEC). Key discoveries include identifying the transcriptional regulator GrIA, which controls the LEE pathogenicity island encoded type 3 secretion system in response to mechanical stimuli. GrIA dissociates from the inner membrane under shear force, activating virulence factors. The project will further investigate the mechanoregulation of Shiga toxin and its impact on gut motility and microbial competition within the host.

Role: Co-Investigator

Office of the Governor & US Department of Treasury: 4546301 (Hanson as a sub-project of TEPHI)

Texas Epidemic Public Health Institute (TEPHI) Antimicrobial Resistance Wastewater Surveillance

11/08/2021 – 12/31/2026

This is an independent sub-project of the TEPHI funding. This project aims to utilize wastewater surveillance for monitoring antimicrobial resistance (AMR), offering a novel approach to detect resistant pathogens and their genes in healthcare settings, particularly hospitals. This study will collect wastewater samples from Memorial Hermann hospital to identify carbapenem-resistant (CR) and extended-spectrum beta-lactamase-resistant (ESBL-R) ESKAPE pathogens. By comparing wastewater findings with clinical isolates, the project aims to detect overlapping and unique resistance mechanisms, potentially identifying subclinical pathogens. This approach could serve as an early warning system for emerging resistance, enhancing infection control, and improving patient safety and public health outcomes.

Role: Principal Investigator

Blake M. Hanson, M.S., Ph.D.

Office of the Governor & US Department of Treasury: 4546301 (Boerwinkle)

TEPHI Viral Wastewater Surveillance

11/08/2021 – 12/31/2026

This is an independent sub-project of the TEPHI funding. This project aims to utilize comprehensive wastewater surveillance to detect and monitor a wide range of human and animal viruses, identify specific viral mutations, and provide early warnings about potential public health threats to enhance timely intervention and resource allocation

Role: Co-Investigator

Texas Department of State Health Services: HHS001089700001/292484 (Boerwinkle)

Texas SARS-CoV-2 Variant Network

08/01/2021 – 07/31/2026

This project aims to develop and implement a statewide network of laboratories collecting and sequencing SARS-CoV-2 positive samples and reporting them to the Texas Department of State Health Services (DSHS).

Role: Co-Investigator, Co-Director Coordinating Center

NIH/NIAID: R01-AI148342 (Arias)

VENOUS: A Translational Approach to Enterococcal Bacteremia

07/01/20-06/30/25

This project hypothesizes a deep understanding of the clinical and microbiological aspects of VRE bloodstream infections and dynamics of the population structure of infecting isolates is crucial to help design novel diagnostic approaches and treatment regimens to improve the outcomes of these difficult-to-treat infections. Using an assembled cohort, we proposed to i) characterize the clinical impact of VRE bacteremia, ii) dissect the population structure of VRE causing bloodstream infections and, iii) develop a new minimal inhibitory concentration (MIC)-independent diagnostic test to assess DAP susceptibility, seeking to guide clinicians with a novel tool to allow accurate identification of DAP-susceptible isolates and improve the use of DAP and combination with β -lactams against these organisms.

Role: Subcontract Principal Investigator

NIH/NIAID: P01- AI152999-01 (Arias)

Dynamics of colonization and infection by multidrug-resistant pathogens in immunocompromised and critically ill patients (DYNAMITE)

07/01/20-06/31/26

This project hypothesizes that patient susceptibility to gut-derived nosocomial colonization and subsequent infection is critically dependent on functional microbiota-pathogen interactions that can be detected via a holistic combination of pathogen, host, and commensal microbiota analyses.

Role: Subcontract Principal Investigator, Co-Core Director

B. PENDING RESEARCH SUPPORT

NIH/NIAID (Hanson)

A Clinical Application for Pathogen Genomic Insights in Healthcare Excellence: Enhancing GENO-STELLAR for Hospital-wide surveillance

04/01/2025 – 03/31/2030

This project aims to expand GENO-STELLAR's support to additional pathogens and enhance its current features and functionality. By implementing antimicrobial susceptibility predictive models and improving integration with existing systems, we seek to create a rapid, accessible, and clinically actionable tool. Ultimately, we plan to conduct a clinical trial to evaluate GENO-STELLAR's effectiveness in reducing the time from empiric treatment to definitive therapy.

Role: Principal Investigator

NIH/NIAID (McNeil)

Blake M. Hanson, M.S., Ph.D.

The Relationship between Antibiotic Susceptibility, Microbial Genomics and Clinical Outcome in Pediatric *Staphylococcus Aureus* Infections

04/01/2025 – 03/31/2030

This project aims to generate a multicenter prospective cohort study assessing the influence of different antimicrobial susceptibility and microbial genetic backgrounds on patient outcomes of invasive methicillin-susceptible *Staphylococcus aureus* infections.

Role: Subcontract Principal Investigator

NIH/DHHS (Wu)

Forecasting viral transmission dynamics and evolution at the community level

12/01/2024 - 11/30/2029

This proposal aims to utilize the SARS-CoV-2 Omicron variant as a model for exploring and quantifying/predicting the emergence and establishment of a novel SARS-CoV-2 variant. This proposal will also observe novel emergence of new variants as well as assess the impact of these models to other pathogen trends such as norovirus.

Role: Co-Investigator

C. COMPLETED RESEARCH SUPPORT

NIH/NIAID: K01AI148593-01 (Hanson)

Mobile Genetic Elements and Clinical Outcomes in *Staphylococcus aureus* Bacteremia

07/01/20 – 06/30/24

This project aims to clarify the role mobile genetic elements play in transmitting antimicrobial resistance and driving genetic diversity within endemic *Staphylococcus aureus* lineages causing bacteremia. Additionally, this research will provide the platform for the career development of a young scientist focused on bacterial phylogenetics, clinical epidemiology, and machine learning methods to tackle the dire consequences of AMR

Role: Principal Investigator

NIH/NIAID: UM1AI104681 (Hanson as a sub-project of the Antimicrobial Resistance Leadership Group) GENOmics, Sequencing-based Typing, EpidemioLogy, Linkage, and Antimicrobial Resistance (GENO-STELLAR) Tool

7/2020-6/2024

This is an independent sub-project of the Antimicrobial Resistance Leadership Group funding. This project aims to develop an online tool for clinicians and scientists to integrate bacterial whole genome sequencing data with centralized phenotypic susceptibility results and clinical outcomes to generate genomic insights into antimicrobial resistance mechanism in clinical isolates that could aid in the management of patients affected with multi-drug resistant bacteria.

Role: Principal Investigator

UTHealth CCTS COVID-19 Pilot Funding (Hanson)

COVID-19 and SARS-CoV-2 infection surveillance of high-risk community members in the Houston area

07/01/2020 – 06/30/2021

This project aims to collect nasal samples and blood to assess for active SARS-CoV-2 infection and evidence of previous infection, respectively. Focusing in on high-risk communities in the Houston area, we are assessing the impact of the COVID-19 pandemic on our local communities.

Role: Principal Investigator

School of Public Health PRIME Award, The University of Texas Health Science Center (Hanson)

Elucidating the antimicrobial resistance mechanisms and mapping the mobilome of *Staphylococcus aureus*

09/01/2018 – 08/31/2019

Blake M. Hanson, M.S., Ph.D.

This project aims to characterize the diversity of mobile genetic elements present within *S. aureus* causing bacteremia in a single hospital in Latin America.

Role: Principal Investigator

CONFERENCE ABSTRACTS AND PUBLICATIONS

A. SELECTED INVITED CONFERENCE TALKS AND PANELS

1. **Hanson BM**, Treangen T, Ajami N, Harrison L. Career mentoring: careers in computational genomics applied to infectious diseases. Texas Medical Center Antimicrobial Resistance and Stewardship Conference 2023. Houston, TX (2023). Invited Panel Speaker
- 2.
3. **Hanson BM**, Tran TT, Miller W. Career mentoring: career development awards in antimicrobial resistance. Texas Medical Center Antimicrobial Resistance and Stewardship Conference 2021. Houston, TX (2021). Invited Panel Speaker
4. **Hanson BM**. Nanopore sequencing to understand AMR. Oxford Nanopore Day Houston. Houston, TX (2019). Invited Talk
5. **Hanson BM**. The application of genomic sequencing in pathogen identification and antimicrobial susceptibility detection. Texas Department of State Health Services Healthcare Safety Conference 2018. Austin, TX (2018). Invited Keynote Talk
6. **Hanson BM**, Weinstock G, Sodergren E, Leopold S, Nguyen H, Brown JS, van Belkum A, Dunne W, Schechter L, Creely D, Humphries R, Yang S, Hemarajata P, Miller W, Kahn A, Arias C. Determining novel antimicrobial resistance mechanisms with Oxford Nanopore long-read sequencing data. Oxford Nanopore London Calling 2018. London, UK (2018). Invited Talk

B. SELECTED PEER REVIEWED CONFERENCE ABSTRACTS

7. Troisi C, Bauer C, **Hanson BM**, Deegan J. From sewage to solutions: The possibilities and implications of wastewater monitoring. American Public Health Association 2024. Minneapolis, MN (2024).
8. **Hanson BM**, Walker JN, Hunter T, Simar SR, Duran Ramirez J, Myckatyn T. A prospective randomized clinical trial demonstrates prophylactic antibiotic administration does not reduce microbial burden or alter the breast microbiome during implant-based breast reconstruction. ISSSI 2024. Perth, Australia (2024).
9. **Hanson BM**, Gillani S, Al Rustem H, Bobier K, Hardy M, Freeland M, Rai S, Kubin G, Milleron R, Boerwinkle E. Evolving with Evolution: Utilizing Dynamic Dashboards to Track Sars-Cov-2 Variants in Texas in a Time of Expanding Genomic Diversity. CSTE 2024. Pittsburgh, PA (2024).
10. Troisi C, Bauer C, **Hanson BM**, Deegan J. From sewage to solutions: The possibilities and implications of wastewater monitoring. Preparedness Summit 2024. Cleveland, OH (2024).
11. **Hanson BM**, Gillani S, Al Rustem H, Bobier K, Hardy M, Freeland M, Rai S, Kubin G, Milleron R, Boerwinkle E. SARS-CoV-2 genomic surveillance system development as a model for other emerging pathogens in Texas. IDWeek 2023. Boston, MA (2023).

Blake M. Hanson, M.S., Ph.D.

12. **Hanson BM.** Genomics of Carbapenem-resistant *Enterobacteriales* in the USA. Texas Medical Center Antimicrobial Resistance and Stewardship Conference 2021. Houston, TX (2021).
13. **Hanson BM.** Nanopore Sequencing to Understand AMR. ASM Conference on Rapid Applied Microbial Next-Generation Sequencing and Bioinformatic Pipelines 2018. Tysons Corner, VA (2018).
14. **Hanson BM.** Nanopore Sequencing to Understand AMR. Texas Medical Center Antimicrobial Resistance and Stewardship Conference 2018. Houston, TX (2018).
15. **Hanson BM,** Weinstock G, Shannon W, Kwambana B, Deych E, Betts M, Worwui A, Carter S, Brown JS, Ceesay F, Tientcheu PE, Phillips D, Sambou E, Sodergren E, Antonio M. Early Life Colonization of the Nasopharyngeal Microbiome: A Longitudinal Study in The Gambia. The Human Microbiome: Emerging Themes at the Horizon of the 21st Century. Bethesda, Maryland (2017).
16. **Hanson BM,** Leopold S, Rojas L, Nguyen H, Chen L, Lek S, Spakowicz D, Johnson J, Brown J, Bonomo R, Arias C, Weinstock G. Applications of long-read sequencing in infectious disease genomics. Infectious Disease Genomics 2015. Cambridge, London (2015).
17. **Hanson BM,** Kwambana B, Zhou Y, Worwui A, Sodergren E, Ndikum-Ndonwi MB, Kinteh MA, Clark E, Bah S, Bah E, Sanneh K, Kijera M, Gibba I, Bojang L, Haffner M, Cox M, Faal A, Sillah L, Said B, Ezedimbu-Michael P, Tientcheu O, Antonio M, Weinstock G. Pneumococcal vaccination and the nasopharyngeal microbiome: a longitudinal study in The Gambia. ASM General Meeting. New Orleans, Louisiana (2015).
18. **Hanson BM,** Kwambana B, Zhou Y, Worwui A, Sodergren E, Ndikum-Ndonwi MB, Kinteh MA, Clark E, Bah S, Bah E, Sanneh K, Kijera M, Gibba I, Bojang L, Haffner M, Cox M, Faal A, Sillah L, Said B, Ezedimbu-Michael P, Tientcheu O, Antonio M, Weinstock G. Pneumococcal vaccination and the nasopharyngeal microbiome: a longitudinal study in The Gambia. 5th International Human Microbiome Congress. Luxembourg City, Luxembourg (2015).
19. **Hanson BM,** Kates A, O'Malley S, Farina S, Klostermann C, Wu J, Meirick T, Quick M, Forshey B, Smith T. Longitudinal study of Iowa families to determine prevalence of *Staphylococcus aureus* and observe colonization incidence and familial transmission. IDWeek 2013. San Francisco, California (2013).
20. **Hanson BM,** Kates A, O'Malley S, Farina S, Klostermann C, Wu J, Meirick T, Quick M, Forshey B, Smith T. Longitudinal study of Iowa families to determine prevalence of *Staphylococcus aureus* and observe colonization incidence and familial transmission. Great Plains Emerging Infectious Diseases Conference. Iowa City, Iowa (2013).
21. **Hanson BM,** Kates A, O'Malley S, Farina S, Klostermann C, Wu J, Meirick T, Quick M, Forshey B, Smith T. Longitudinal study of Iowa families to determine prevalence of *Staphylococcus aureus* and observe colonization incidence and familial transmission. University of Iowa Health Sciences Research Week. Iowa City, Iowa (2013).
22. Beahm A, **Hanson BM,** Karriker L, Ramirez A, Smith TC, Frana T. Molecular characterization of *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* isolated from veterinary students, swine, and their environment. Great Plains Emerging Infectious Diseases Conference. Iowa City, Iowa (2012).

Blake M. Hanson, M.S., Ph.D.

23. O'Brien AM, **Hanson BM**, Farina SA, Wu JY, Simmering JE, Wardyn SE, Kulick ME, Wallinga DB, Smith TC. *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* (MRSA) in retail pork. 2nd ASM-ESCMID Conference on methicillin-resistant *Staphylococci* in Animals. Boston, Maryland (2011).
24. **Hanson BM**, Harper, AL, Wardyn SE, Dressler AE, Smith TC. Characterizing *Staphylococcus aureus* strains presenting at a Mongolian Hospital. University of Iowa Epidemiology Poster Session. Iowa City, Iowa (2010).
25. **Hanson BM**, Harper, AL, Scheibel, RP, Roberts LK, Smith TC. Prevalence of *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* in retail meat in Iowa. Iowa Academy of Science Poster Session. Des Moines, Iowa (2009).
26. **Hanson BM**, Harper, AL, Scheibel, RP, Roberts LK, Smith TC. Prevalence of *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* in retail meat in Iowa. Midwest Rural Agricultural Safety & Health Forum. Johnston, Iowa (2009).
27. **Hanson, BM**, Harper, AL, Scheibel, RP, Roberts LK, Smith TC. Prevalence of *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* in retail meat in Iowa. ASM-ESCMID Conference on methicillin-resistant *Staphylococci* in Animals Poster Session. London, England (2009).
28. **Hanson, BM**, Harper, AL, Scheibel, RP, Roberts LK, Smith TC. Prevalence of *Staphylococcus aureus* and methicillin-resistant *Staphylococcus aureus* in retail meat in Iowa. University of Iowa Research Week Poster Session. Iowa City, Iowa (2009).

C. PREPRINT PUBLICATIONS (*Corresponding author)

D. PEER REVIEWED PUBLICATIONS (*Corresponding author)

1. **Hanson BM**[^], Tisza MJ[^], Clark JR, Wang L, Payne K, Ross MC, Mena KD, Gitter A, Javornik Cregeen SJ, Cormier J, Avadhanula V, Terwilliger A, Balliew J, Wu F, Rios J, Deegan J, Piedra PA, Petrosino JF, Boerwinkle E, Maresso AW. Sequencing-Based Detection of Avian Influenza A(H5N1) Virus in Wastewater in Ten Cities. N Engl J Med. 2024 Sep 26;391(12):1157-1159. doi: 10.1056/NEJMc2405937. Epub 2024 Sep 11. PMID: 39259887.
[^] Co-first authorship
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E. CONTINUING MEDICAL EDUCATION

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F. CONFERENCE PROCEEDINGS (*Corresponding author)

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G. REVIEWS AND EDITORIALS (*corresponding author)

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3. Morales-Marroquin E, **Hanson B**, Greathouse L, de la Cruz-Munoz N, Messiah SE. Comparison of methodological approaches to human gut microbiota changes in response to metabolic and bariatric surgery: A systematic review. Obes Rev. 2020 Apr 6. PMID: 32249534
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H. BOOKS AND BOOK CHAPTERS

1. Thapalia D, **Hanson BM**, Kates AE, Klostermann CA, Nair R, Wardyn SE, Smith TC. Zoonoses – Infections Affecting Humans and Animals. 1st ed. Zoonotic Diseases of Swine: Food-borne and Occupational Aspects of Infection. 2015: Springer Netherlands.

RELEVANT MEDIA EXPOSURE

A. PRINT AND WEBSITES

1. Date: September 19, 2024
Publication: Medpage Today
Website: <https://www.medpagetoday.com/infectiousdisease/surveillance/111909>
2. Date: July 16, 2024
Publication: ARLG Quarterly Newsletter Q3 2024
Website: <https://arlg.org/geno-stellar-an-interview-with-blake-hanson-phd/>
3. Date: May 23, 2024
Publication: Bloomberg
Website: <https://www.bloomberg.com/news/articles/2024-05-23/bird-flu-outbreak-in-dairy-cows-is-more-widespread-sewage-tests-suggest>
4. Date: May 22, 2024
Publication: CNN
Website: <https://www.cnn.com/2024/05/22/health/bird-flu-wastewater-monitoring-texas/index.html>
5. Date: May 21, 2024
Publication: Clinical & Engineering News
Website: <https://cen.acs.org/biological-chemistry/US-CDC-begins-tracking-influenza/102/web/2024/05>
6. Date: May 16, 2024
Publication: MedPage Today
Website: <https://www.medpagetoday.com/special-reports/exclusives/110169>
7. Date: May 16, 2024

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Publication: LA Times

Website: <https://www.latimes.com/environment/story/2024-05-16/texas-researchers-identify-bird-flu-in-wastewater-of-nine-cities-filling-in-cdc-data-gaps>

8. Date: April 15, 2021

Publication: Texas Monthly – A DNA zoo maps the mysteries of all creatures great and small

Website: <https://www.texasmonthly.com/news-politics/dna-zoo-baylor-college-medicine-houston/>

9. Date: May 2, 2020

Publication: ASM-TMC COVID-19 101 – Debunking Myths

Website: <https://www.youtube.com/watch?v=RUKucmvWoqY&list=LLf-MUHEm4PDyCcodDvGaaqw&index=2&t=1898s>

10. Date: May 24, 2018

Publication: Oxford Nanopore News

Website: <https://nanoporetech.com/about-us/news/london-calling-day-1-morning-writeups>

Website: <https://nanoporetech.com/resource-centre/talk/determining-novel-antimicrobial-resistance-mechanisms-oxford-nanopore-long>

11. Date: February 11, 2016

Publication: YouTube – Oxford Nanopore Technologies

Website: <https://www.youtube.com/watch?v=AWEIbgV9uAg>

12. Date: January 14, 2016

Publication: we-ha.com

Website: <http://we-ha.com/jackson-laboratories-will-kick-off-discussion-series-on-family-health/>

13. Date: January 7, 2016

Publication: Hartford Courant

Website: <http://www.courant.com/community/west-hartford/hc-west-hartford-childrens-museum-partnership-0108-20160107-story.html>

14. Date: January 4, 2016

Publication: West Hartford Patch

Website: <http://patch.com/connecticut/westhartford/jackson-laboratory-lead-public-discussion-human-microbiome-family-health>

B. TELEVISION

1. Date: June 14, 2024

Publication: Fox 26 Morning News

Topic: Interpretation and implications of H5N1 detection in wastewater in Texas