



## Curriculum Vitae

Kendra J. Gallo

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 School of Veterinary Medicine  
 University of Wisconsin–Madison

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## CURRENT POSITION

2018 - **Doctoral Candidate**  
 Comparative Biomedical Sciences Program  
 Department of Pathobiological Sciences  
 University of Wisconsin–Madison, WI US

## EDUCATION

2015 - 2017 BS in Microbiology  
 University of Wisconsin-Milwaukee, Milwaukee, WI US  
 Dean's List, Honors, Magna Cum Laude

2010 - 2012 AA Emphasis in Science  
 Golden West College, Huntington Beach, CA US

## RESEARCH EXPERIENCE

2018 - **Doctoral Research**  
 Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison

- Characterizing filarial parasite G protein-coupled receptors as novel drug targets
- Improving surveillance and diagnostic efforts for *Mansonella spp.* in Colombia
- Developing and optimizing advanced high-content screening methods for filarial and model nematodes
- Advised by [Mostafa Zamanian](#)

2017 - 2018 **Associate Microbiologist**  
 Wisconsin Veterinary Diagnostic Lab (WVDL)  
 School of Veterinary Medicine, University of Wisconsin-Madison

- Diagnostics for Transmissible Spongiform Encephalopathy (TSE) in Midwest deer
- Experience with tissue handling and preparation techniques, ELISA procedures, histotechnology, and immunohistochemistry
- Advised by [Dan Barr](#)

2017 - 2018 **Undergraduate Fellowship**  
 American Society of Microbiology (ASM)  
 School of Freshwater Sciences, University of Wisconsin-Milwaukee

- Optimized PCR-based classification of *Escherichia coli* to determine pathogenicity risk to humans
- Collected and isolated bacterial samples from beach sands along Lake Michigan
- Advised by [Sandra McLellan](#)

2016 - 2017 **Undergraduate Research**  
 College of Letters and Science, University of Wisconsin-Milwaukee

- Molecular genetics and microbiology research focused on operon manipulation of bioluminescence in *Vibrio harveyi*
- Advised by [Charles Wimpee](#)

2016 **Undergraduate Research**  
 USDA Forage Research Center, University of Wisconsin-Madison

- Studied and identified putative genes responsible for self-reproductive incompatibility in *Trifolium pratense*
- Bioinformatic and phylogenetic analysis of forage crops and closely related species
- Advised by **Heathcliffe Riday**

2012-2013

#### Undergraduate Volunteer

Department of Physical Science, Golden West College

- Prepared experimental setups for General Chemistry and Organic Chemistry labs
- Advised by **Joan Deniken**

## PUBLICATIONS

‡ Corresponding author(s) § Equal contribution

Citations: 7, h-index: 1 | **Google Scholar link**

7. **Gallo KJ**, Wheeler NJ, Elmi AM, Airs P, Zamanian M. *Pharmacological profiling of a Brugia malayi muscarinic acetylcholine receptor as a putative antiparasitic target.*  
**bioRxiv** 2022. 022.08.31.506057. doi:10.1101/2022.08.31.506057 [In review at Antimicrobial Agents and Chemotherapy]
6. **Gallo KJ**, Zamanian M. *High-throughput image-based drug screening of Caenorhabditis elegans movement, development, and viability*  
**Protocol Exchange** 2022. <https://doi.org/10.21203/rs.3.pex-2018/v1>
5. Wheeler NJ, Zamanian M, Ryan KT, **Gallo KJ**. *Bivariate, high-content screening of Brugia malayi microfilariae.*  
**Protocol Exchange** 2022. doi:10.21203/rs.3.pex-1916/v1
4. Wheeler NJ, Zamanian M, Ryan KT, **Gallo KJ**. *Multivariate screening of Brugia spp. adults.*  
**Protocol Exchange** 2022. doi:10.21203/rs.3.pex-1918/v1
3. Wheeler NJ, Ryan KT, **Gallo KJ**, Henthorn CR, Erickson SS, Chan JD, Zamanian M<sup>‡</sup>. *Multivariate chemogenomic screening prioritizes new macrofilaricidal leads.*  
**bioRxiv** 2022. 2022.07.25.501423. doi:10.1101/2022.07.25.501423 [In review at Communication Biology]
2. Wheeler NJ, **Gallo KJ**, Garncarz EJ, Ryan KT, Chan JD, Zamanian M<sup>‡</sup>. *wrmXpress: A modular package for high-throughput image analysis of parasitic and free-living worms.*  
**bioRxiv** 2022. 2022.05.18.492482. doi:10.1101/2022.05.18.492482 [In review at PLOS NTD]
1. Airs PM, Vaccaro K, **Gallo KJ**, Dinguirard N, Heimark ZW, Wheeler NJ, He J, Weiss K, Schroeder NE, Huisken J, Zamanian M<sup>‡</sup>. *Spatial transcriptomics reveals antiparasitic targets associated with essential behaviors in the human parasite Brugia malayi.*  
**PLOS Pathogens** 2022. 18: e1010399.

## PRESENTATIONS

Talks: 2, Posters: 6

8. *Characterization of a filarial nematode muscarinic acetylcholine receptor as a putative antiparasitic target.* National Diversity in STEM (NDiSTEM). San Juan, PR USA. October 2022 (**Poster**)
7. *Improving resources for surveillance and study of the neglected parasite Mansonella.* Midwest Neglected Infectious Diseases (MNID). South Bend, IN USA. August 2022 (**Poster**)
6. *Functional characterization of parasitic nematode aminergic receptors as drug targets.* Parasitology and Vector Biology (PVB). Virtual. May 2021 (**Seminar**)
5. *Functional profiling of G protein-coupled receptors as candidate anthelmintic targets using “parasitized” Caenorhabditis elegans.* American Society of Tropical Medicine and Hygiene (ASTMH). Virtual. November 2020 (**Poster**)
4. *Exploiting a model organism to characterize receptor drug targets.* Parasitology and Vector Biology (PVB). Virtual. August 2020 (**Seminar**)

3. *Tissue-Specific Heterologous Expression of Filarial Parasite G Protein-Coupled Receptors (GPCRs) in Caenorhabditis elegans*. World Association for the Advancement of Veterinary Parasitology (WAAVP). Madison, WI USA. July 2019. **(Poster)**
2. *Genetic Polymorphisms between Escherichia coli Isolates from Beach Sand and Linkage to Survival Characteristics*. American Society for Microbiology (ASM) Microbe. Atlanta, GA USA. June 2018 **(Poster)**
1. *Locating the S-RNase gene associated with self-incompatibility in Trifolium pratense (Red Clover) on linkage group one*. Undergraduate research symposium. Madison, WI USA. May 2016. **(Poster)**

## TEACHING

**INTEG SCI 660**, University of Wisconsin-Madison  
 Course Title: Research Mentor Training  
 Summer 2022: Course co-facilitator

## UNDERGRADUATE MENTORING

**Abdifatah Elmi**, Undergraduate Researcher (2018 - 2019)  
 – Graduate of UW-Madison Biology department  
 – Presented a poster at the undergraduate research symposium  
 – Credited author on Gallo et al 2022

## PROFESSIONAL AFFILIATIONS

2018 - **Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)**  
 – Member  
 – Outreach Chair for UW-Madison chapter

## SERVICE AND OUTREACH

### Catalysts for Science Policy (CASP):

**2022:** Memo for Wisconsin State Legislator.

*Policy Recommendations for Advancing the Transition of Gene Therapy Technology from Basic Research to Clinical Applications*. Prepared by: Emma Eisenbraun, Jordan York, Austin Hall, Tyler Beames, **Kendra Gallo**

**2019:** Facilitate global climate policy simulation for the National Science Policy Symposium (NSPS)

### Diversity, Equity and Inclusion Advisory Committee:

**2021- :** Graduate students representative for Comparative Biomedical Sciences program

### Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS):

**2019, 2022:** Science Expeditions, DNA and model organisms

**2019:** Darwin Days, DNA extraction activity

**2019:** Food drive, 1,500 meals

**2018- :** Outreach chair, elected

### Science and Medicine Graduate Research Scholars (SciMed GRS):

**2021- :** Student Executive Committee, elected representative

**2019:** Critical Mass, mentor for high school students

**2019:** Minorities in agriculture, natural resources, and related sciences (MANRRS), mentor

**2018, 2019 :** Nuestro Mundo, Science outreach nights

## HONORS & AWARDS

**2023:** Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) Travel Scholarship (\$2,000)  
**2022-2023:** Science and Medicine Graduate Research Scholars(SciMed-GRS) Dissertator Fellowship, University Wisconsin-Madison (\$33,000)  
**2021:** Ford Foundation Predoctoral Fellowship Program, University Wisconsin-Madison (Honorable Mention)  
**2019-2021:** National Institute of Health Parasite and Vector Biology Training Grant (NIH-PVB-T32), University Wisconsin-Madison (\$40,000/year)  
**2019:** National Science Foundation Graduate Research Fellowships Program (NSF-GRFP) (Honorable Mention)  
**2018-2019:** Science and Medicine Graduate Research Scholars(SciMed-GRS) Fellowship, University Wisconsin-Madison (\$41,000)  
**2017-2018:** American Society of Microbiology (ASM) Undergraduate Research Fellowship, University Wisconsin-Milwaukee (\$8,000)  
**2017:** Ruth I Walker Tuition Scholarship, University Wisconsin-Milwaukee (\$4,045)  
**2017:** Natural Science Minority Scholarship, University Wisconsin-Milwaukee (\$625)  
**2017:** Lawton Scholar Award, University Wisconsin-Milwaukee (\$1,250)

## FORMAL TRAINING

### Health Science Data Carpentry Workshop:

Gained exposure to data skills relevant to my graduate research  
 Data wrangling, management and organization, encoding data frame utilities and functions, statistics openRefine, R (dplyr, ggplot), Rmd, SQL

### Software carpentry:

Gained exposure to more advanced computational skills relevant to my graduate research  
 Automating tasks, version control, plotting and programing in python, using interactive coding platforms  
 Unix shell, python, Git, GitHub, jupyter

### Research Mentor Training:

Developed skills to be an efficient and effective mentor  
 Penned a mentoring philosophy to guide research mentorship  
 Wrote a mentor-mentee agreement to set expectations

### Equity in STEM for All Genders:

Gained knowledge and tools to identify bias in academic and research settings  
 Implemented strategies to make campus more LGBTQ+ inclusive through intervention and advocacy  
 Identified ways that gender bias influences and impacts training and career outcomes for STEM trainees

## REFERENCES

**Mostafa Zamanian**, Assisant Professor, University of Wisconsin-Madison  
Doctoral advisor  
mzamanian@wisc.edu  
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