

Lynne J. Nealy

2897 Main Street Bellevue, WA 98004 | nealy@wisc.edu | 123-456-7890 | nealywebsite.com

RESEARCH INTERESTS

Gene Regulation and Expression, Cancer Biology and Therapeutics, Genome Editing and CRISPR Technology, Epigenetics and Chromatin Biology, Stem Cell Biology and Regenerative Medicine, Microbial, Genomics and Host-Pathogen Interactions.

EDUCATION

M.S. in Molecular Biology, (GPA: 3.92/4.00) **University of Wisconsin-Madison**, 2023

- Dissertation: *Unraveling the Molecular Complexity: Investigating Gene Regulatory Networks in [Specific Biological System or Disease]*
- Committee: Prof. Lynne J. Nealy (Chair/Advisor), Prof. Lynne J. Nealy, Prof. Nealy

B.S. in Biology, **University of Wisconsin-Madison**, 2019

- Dissertation: *Unraveling the Molecular Complexity: Investigating Gene Regulatory Networks in [Specific Biological System or Disease]*
- Committee: Prof. Lynne J. Nealy (Chair/Advisor), Prof. Lynne J. Nealy, Prof. Nealy

PUBLICATIONS

- **Lynne J. Nealy**, Scott R Baier, Katherine M Howard, Juan Cui. (2023). Gene regulation by dietary microRNAs. *Current Opinion in Cell Biology*, 93(12):1097-1102.
- Scott R Baier, Katherine M Howard, **Lynne J. Nealy**, Juan Cui. (2022). Peculiarities of *Plasmodium falciparum* Gene Regulation and Chromatin Structure. *Molecular Systems Biology*, 93(12):1097-1102.
- Scott R Baier, Katherine M Howard, **Lynne J. Nealy**, Juan Cui. (2021). Translational gene regulation in plants: A green new deal. *eLife*, 93(12):1097-1102.

SCHOLARSHIPS & AWARDS

- Dean's Scholarship, University of Wisconsin-Madison, 2020-2022
- University Fellowship, University of Wisconsin-Madison, 2018-2019
- Conference Travel & Research Fellowship, University of Wisconsin-Madison, 2018
- Summer Undergraduate Research Fellowship, Yale University, 2015-2016

CONFERENCES & PRESENTATIONS

PAPERS PRESENTED

- **Lynne J. Nealy**, Smith J, Patel R, Chen Q, Garcia L, and Johnson M. Investigating the role of microRNAs in neuronal development using CRISPR/Cas9 technology. International Neurogenetics Conference (INC), Virtual, September 2023. (Poster).
- Wang X, Nguyen T, Lee S, **Lynne J. Nealy**, Rodriguez A, and Gupta S. Novel approaches for targeting epigenetic modifications in leukemia therapy. European Hematology Association (EHA) Congress, In-Person, June 2022. (Oral).
- **Lynne J. Nealy**, Martinez C, Thompson E, Park Y, White B, and Zhang W. Functional characterization of novel metabolic pathways in yeast using metabolomics and flux analysis. International Symposium on Metabolic Engineering (ISME), Hybrid, August 2024. (Poster).

PANELS ORGANIZED

- Emerging Frontiers in Synthetic Biology: Engineering Life for Sustainability and Health, International Synthetic Biology Summit, Boston, April 5-8, 2023. Association (EHA) Congress, In-Person, June 2022.
- Advances in Neurobiology: Understanding the Brain through Multidisciplinary Approaches, Neuroscientists Conference, San Diego, September 15-18, 2019.
- Exploring Biodiversity Hotspots: Conservation Strategies for Threatened Ecosystems," International Biodiversity Symposium, Rio de Janeiro, July 5-8, 2021.

SEMINAR PRESENTATIONS

- Unraveling the Mysteries of Gene Regulation: Insights into Transcriptional Control Mechanisms, March 2022.
- Epigenetic Modifications in Health and Disease: Deciphering the Code of Gene Expression, March 2021.
- Exploring the Role of Non-coding RNAs in Cellular Functions and Disease Pathogenesis, March 2020.

TEACHING EXPERIENCE

Guest Lecturer; University of Wisconsin–Madison, 2021-2023

- Molecular Biology Techniques: Hands-On Laboratory Instruction and Applications (Spring 2021, 2022).

Instructor, Garden State Youth Correctional Facility (Department Teaching Initiative), 2020-2021

- Genetic Engineering and Genome Editing (Fall 2021)
- Introduction to Computational Tools for Molecular (Spring 2020)

Preceptor; University of Wisconsin–Madison, 2018-2019

- Cell Signaling Pathways (Fall 2019)
- Protein Structure and Function (Spring 2019)
- Microbial Genetics and Genomics (Spring 2018)

SERVICE

PROFESSIONAL SERVICE

- Committee Member, Molecular Biology Symposium, American Society for Biochemistry and Molecular Biology, 2022 - Present
- Abstract Reviewer, Graduate Conference on Genetics and Genomics, University of Wisconsin-Madison, 2020-2021

DEPARTMENT/UNIVERSITY SERVICE

- Organizer, Faculty Research Seminar, University of Wisconsin-Madison, 2021
- Co-Chair, Molecular Biology Department Graduate Action Committee, University of Wisconsin-Madison, 2018-2020

COMMUNITY OUTREACH

- Founding Member, Madison High School Biology Outreach, 2020-Present
- Graduate Mentor, BioDiscovery Undergraduate Workshop, University of Wisconsin-Madison, 2019-2021

LANGUAGES

English: Advanced reading knowledge

French: Intermediate reading knowledge

Latin: Advanced reading and conversational knowledge

Japanese: Intermediate reading and conversational knowledge

REFERENCES

Emily Lion, Ph.D.
Professor, Department of Molecular Biology
University of Wisconsin-Madison
emilylion@wisc.edu

David Eagle, Ph.D.
Assistant Professor, Department of Genetics
University of Wisconsin-Madison
david eagle@wisc.edu

Fiona Bear, Ph.D.
Associate Professor, Department of Microbiology
University of Wisconsin-Madison
fionabear@wisc.edu