

Cody L. Swilley, D.V.M., Ph.D., M.P.H.

100 Antioch Pike Apt 1207

Nashville, TN 37211

(228) 216-8529

CswilleyDVM@gmail.com

EDUCATION

2024-Present	Laboratory Animal Medicine Resident Vanderbilt University Medical Center, Division of Animal Care, Nashville, TN
2020-2023	Doctor of Philosophy Virginia-Maryland College of Veterinary Medicine Biomedical and Veterinary Sciences, Blacksburg, VA
2019-2020	Masters of Public Health Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
2008-2012	Doctor of Veterinary Medicine Mississippi State University, College of Veterinary Medicine, Starkville, MS
2005-2008	Food Science Nutrition and Health Promotion – no degree awarded Mississippi State University, College of Agricultural Sciences, Starkville, MS During third year of undergraduate training, I was accepted for immediate transfer into the College of Veterinary Medicine to complete a DVM rather than a bachelor's degree.

EMPLOYMENT

2012-2019	Associate Veterinarian – Practice of clinical veterinary medicine and surgery on a variety of species with focus on disease control and mitigation as well as public health and education. Employment was over a variety of clinical settings including privately owned, corporate, and high-volume rescue in Texas, Maryland, and Virginia.
------------------	---

LICENSES

Veterinary Licenses

2024- Present	State of Tennessee Veterinary Medical License (#8361)
2015-2024	State of Virginia Veterinary Medical License (#0301204131- expired)
2015-2020	State of Maryland Veterinary Medical License (#7383- expired)
2012-2015	State of Texas Veterinary Medical License (#12660- expired)

Other Licenses

2023 - Current	United States Department of Justice Drug Enforcement Administration (DEA)
2020 – 2023	United States Department of Agriculture Category II Veterinarian License # 094085 non-active

PROFESSIONAL MEMBERSHIPS

2008 – current	American Veterinary Medical Association
2024 – current	The American Society of Laboratory Animal Practitioners (ASLAP)
2024 – current	American Association for Laboratory Animal Science

PROFESSIONAL EXPERIENCES

2020-2023 Xie Research Group: Epigenetics and Computational Laboratory - Blacksburg, VA

The Epigenetics and Computational Laboratory combines multidisciplinary approaches to study epigenetic regulatory networks associated with tissue development and cell specification. This laboratory uses neuron stem cells, primary neuronal cultures, and transgenic mouse models for functional assays to understand the epigenetic mechanisms underlying brain development and neurological disorders.

Faculty Advisor- Hehuang “David” Xie, Ph.D.

2020-2023 T-32 Training Grant Post-DVM Training Program: Animal Model Research for Veterinarians – Blacksburg, VA

The National Institutes of Health funded training for veterinarians in the skills of a researcher to help them launch a successful research career in the areas of animal models of immunology and inflammation, infectious diseases, and neurobiology. At the end of the training program, trainees are expected to launch an independent biomedical research career and assume leadership roles related to the nation's biomedical research agenda in academia, government, and industry

2019-2020 Master of Public Health Capstone- Literature Review - Baltimore, Maryland

Occupational Exposures: A Hypothesis for high rates of Veterinarian Death by Suicide

Faculty Advisor- Meghan Davis, D.V.M., Ph.D., M.P.H.

2019-2020 Master of Public Health Practicum- Pandemic Survey (COVET) – Baltimore, Maryland

Veterinary and animal care workers’ perceived risk and willingness to respond to the coronavirus pandemic Survey (COVET).

<https://ehe.jhu.edu/research/COVET/about-the-covet-study.html>

Faculty Advisor- Meghan Davis, D.V.M., Ph.D., M.P.H.

2011 June/July Senior Veterinary Rotation - Royal Veterinary College - London, England

Comparative study between United States and United Kingdom farming systems and clinical medicine.

2011 June/July Senior Veterinary Rotation - Welsh Regional Veterinary Centre, Gelli Aur, Wales

Population medicine outreach rotation in Rural Wales for evaluation of production practices from farm to table.

.

PEER REVIEWED MANUSCRIPTS

1. **Swilley, C.**; Lin, Y.; Zheng, Y.; Xu, X.; Liu, M.; Zimmerman, K.; Xie, H. Sex-Linked Growth Disorder and Aberrant Pituitary Gene Expression in Nestin-Cre-Mediated Egr1 Conditional Knockout Mice. *Biology* 2023, 12, 966. <https://doi.org/10.3390/biology12070966>
PMID: 37508396
Impact Factor: 5.2
2. **Swilley C.**, Lin Y, Zheng Y, Xu X, Liu M, Jarome T, Hodes GE, and Xie H (2023) Sex linked behavioral and hippocampal transcriptomic changes in mice with cell-type specific Egr1 loss. *Front. Neurosci.* 17:1240209. doi: 10.3389/fnins.2023.1240209
PMID: 37928724
Impact Factor: 3.2

TEACHING

Vanderbilt University Medical Center

Instructor

2024- Current	Mouse Techniques Course - wet lab Basic mouse handling and husbandry for researchers
2024- Current	Mouse Blood Collection Course – wet lab Blood collection techniques for researchers
2024- Current	Mouse Advanced Techniques Course- wet lab Advanced substance administration and collection techniques for researchers
2025 March	Introduction to Working with the Mouse – wet lab Basic mouse handling and husbandry for graduate students
2025 March	From Mouse to Meaningful Data – wet lab Basic mouse handling and husbandry for graduate students

Significant Mentorships

Provide guidance and direction during veterinary studies and post education transition to practitioner.

Lindsay Jo Francis – DVM 2020, Colorado State University – private practice CA

Joshua Julian – DVM 2022, Virginia Tech. - private practice DE

Sydney Frank- DVM 2022, Virginia Tech. – USDA

Maya Wallick – DVM 2022, Virginia Tech. – Tufts University Internal Medicine Residency

OTHER ACTIVITIES

AVMA Legislative fly-in 2018

Veterinarians and veterinary students spent the day lobbying for the 2018 Farm Bill and Higher Education Act to state Senators and House Committee members

[American Veterinary Medical Association](#) | [Congressional Advocacy Network](#)

One Health Academy (Member: 2016 - current)

The One Health Academy is a group of health professionals who meet monthly for talks related to the one health initiative including medical doctors, veterinarians, epidemiologist, as well as a large variety of others. This organization fosters interdisciplinary collaborations among health professionals, industry, and policy makers by promoting public health as well as environmental, food, agricultural, and economic protection (www.onehealthacademy.org)

Hosting Foreign Exchange Students (2000-2005)

My family hosted foreign exchange students from Brazil, Czech Republic, Germany, and Spain as part of a program to broaden our community's knowledge of international cultures

(<https://www.iseusa.org/>)

PRESENTATIONS

Invited talks

1. Swilley, C.; Lin, Y.; Zheng, Y.; Xu, X.; Liu, M.; Zimmerman, K.; Xie, H. Sex-Linked Growth Disorder and Aberrant Pituitary Gene Expression in Nestin-Cre-Mediated Egr1 Conditional Knockout Mice. 21st Annual Workshop: Pathology of Mouse Models for Human Disease. Marlo Thomas Center for Global Education and Collaboration. St. Jude Children's Research Hospital, Memphis, TN, September 9, 2024.
2. Swilley, C. Hippocampal Nestin-Cre-Mediated Egr1 Conditional Knockout Mice, Biomedical and Veterinary Sciences Research in Progress Seminar Series- March 22, 2023
3. Swilley, C. Hippocampal and Pituitary Nestin-Cre-Mediated Egr1 Conditional Knockout Mice, Virginia Tech, Johns Hopkins University, and Wake Forest University NIH T32 Training Program Workshop- March 10, 2023, Blacksburg, VA
4. Swilley, C.; Lin, Y.; Zheng, Y.; Xu, X.; Liu, M.; Zimmerman, K.; Xie, H Sex-Linked Growth Disorder and Aberrant Pituitary Gene Expression in Nestin-Cre-Mediated Egr1 Conditional Knockout Mice. Global Meet on Biotechnology and Bioscience - February 16-18, 2023, Hilton Hotel Miami Airport, Miami, Florida
5. Swilley, C. Professional and Graduate Experiences, The HBCU/MSI Research Summit at Virginia Tech, Virginia Tech collaborates with Historically Black Colleges and Universities (HBCUs) and Minority Serving Institutions (MSIs) to explore research partnerships November 7, 2022, Blacksburg, VA
6. Swilley, C. Nestin-Cre-Mediated Egr1 Conditional Knockout Mice, Biomedical and Veterinary Sciences Research in Progress Seminar Series- October 17, 2022

Poster Presentations

1. Swilley, C.; Lin, Y.; Zheng, Y.; Xu, X.; Liu, M.; Zimmerman, K.; Xie, H Sex-Linked Growth Disorder and Aberrant Pituitary Gene Expression in Nestin-Cre-Mediated Egr1 Conditional Knockout Mice. 32nd Annual Graduate Research Symposium - March 14, 2023, Blacksburg, Virginia
2. Swilley, C.; Lin, Y.; Zheng, Y.; Xu, X.; Liu, M.; Zimmerman, K.; Xie, H Sex-Linked Growth Disorder and Aberrant Pituitary Gene Expression in Nestin-Cre-Mediated Egr1 Conditional Knockout Mice. Virginia Tech Alliance for Neurodevelopment Research Symposium- August 11, 2022, Blacksburg, Virginia
3. Swilley, C.; Lin, Y.; Zheng, Y.; Xu, X.; Liu, M.; Zimmerman, K.; Xie, H Sex-Linked Growth Disorder and Aberrant Pituitary Gene Expression in Nestin-Cre-Mediated Egr1 Conditional Knockout Mice. Invitro Biology Meeting June 4-7, 2022, San Diego, California