Leigha M. Lynch

Curriculum Vitae

Last updated November 1, 2026

Midwestern University
Glendale Campus
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Glendale, AZ 85308

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Education

2018	Ph.D. in Biomedical Sciences, Anatomy and Vertebrate Paleontology Track, Oklahoma State University Center for Health Sciences, Advisor: Dr. Anne Weil
2012	M.S. in Geosciences, East Tennessee State University, Advisor: Dr. Steven Wallace
2009	B.S. in Geology, Bowling Green State University, Advisors: Dr. John Farver and Dr. Peg Yacobucci

Training courses

January 2026	Bio Leaps Leadership Training
August-May 2025	Inclusion, Diversity, and Equity in Academics, Instructor: Shindale Seale
June 2024	Emergent Ecosystem Responses to ChanGE Biology Integration Institute, Instructors: Virginia Rich, Ruth Varner
June 2024	Emergent Ecosystem Responses to ChanGE Biology Integration Institute, Instructors: Virginia Rich, Ruth Varner
July 2021	Evolutionary Quantitative Genetics Workshop, Instructors Dr. Steve Arnold and Dr. Joe Felsenstein
October 2019	Inclusive Teaching in STEM; Instructor Dr. Denise Leonard
September 2019	Introduction for Course Design; Instructor Dr. Julia Johnson
May 2016	Genomic Data Science with Galaxy, Instructor Dr. James Taylor
May 2016	Python for Genomic Data Sciences, Instructors Dr. Mihaela Pertea and Dr. Steven Salzberg
April 2016	Introduction to Genomic Technologies, Instructors Dr. Steven Salzberg and Dr. Jeff Leek
October 2015	Introduction to Geomorph in R workshop, Instructor Dr. Emma Sherratt
December 2013	Geometric Morphometrics Workshop, Instructor Dr. Miriam Zelditch

Positions Held

2025-Present	Associate Professor, Department of Anatomy, Midwestern University Glendale
2020-2025	Assistant Professor, Department of Anatomy, Midwestern University Glendale
2018-2020	Postdoctoral Research Associate, Washington University School of Medicine in St. Louis
2013-2017	Teaching Assistant, Oklahoma State University Center for Health Sciences
2012-2013	Adjunct Professor, East Tennessee State University

Other Academic Positions

2014, 2015	Camp Manager and Field Assistant, Homestead Quarry, OSU-CHS
2012-2013	Field/lab assistant, Gray Fossil Site, East Tennessee State University

Teaching Experience

Midwestern University- Assistant Professor

2024-present	Gross Anatomy/Embryology, ANATG 1152/1153 Course head: **Dr. Leigha Lynch** **Specialize:** thoracic and abdominal anatomy and embryology, autonomic nervous system
2024-2026	Integrated Basic Science, BASIG 1509/1518 Course head: Dr. Carrie Veilleux **Specialize:** head and neck anatomy and embryology, brain, nervous system
2023-2024	Gross Anatomy/Embryology, ANATG 1151/1152/1153 Course head: **Dr. Leigha Lynch** and Dr. Heather Smith
2021-2022	Gross Anatomy/Embryology, ANATG 1151/1152/1153 Course head: Dr. Matt O'Neill
2020-2022	Human Anatomy with Laboratory, ANATG 502/503/504 Course head: Dr. Kathleen Muldoon

Washington University School of Medicine in St. Louis- Postdoctoral Research Assistant

2018-2020	The Human Body: Anatomy, Embryology, Imaging Course head: Dr. Amy Bauernfeind and Dr. Kari Allen

Oklahoma State University Center for Health Sciences- Graduate Teaching Assistant

2013-2016	Clinical Anatomy, BIOM 5116, Course head: Dr. Kent Smith

East Tennessee State University- Adjunct Professor

2013	Life Through Time, GEOL 1050, Course head: Dr. Blaine Schubert
2012; 2013	Weather and Climate (online), GEOG 1110, Course head: Ingrid Luffman, M.S.

Professional Students Mentored

Veterinary Medicine

Angela Boyer	Midwestern University
Megan Hostetter	Midwestern University
Erykah Strong	Midwestern University
Isabel Piccinini	Midwestern University

Osteopathic Medicine

Jonathan Tuscano	Midwestern University
Milena Douglas	Midwestern University
Matthew Mckoy	Midwestern University
Dureali Mirjat	Midwestern University
Colton Lane	Midwestern University
Matthew Gross	Midwestern University
Rafael Rios	Midwestern University
Sofia Barajas	Midwestern University
Erika Tanquilut	Midwestern University
Hansan Jones	Midwestern University
Ho Lok	Midwestern University
Austin Bay	Midwestern University
Alexzander Rich	Midwestern University
Ainsley Durning	Midwestern University
Wyatt Gardner	Midwestern University
James Bates	Midwestern University
Blake Andrea	Midwestern University
Georgianna Miller	Midwestern University
Cole McNeil	Midwestern University
Wael Almasri	Midwestern University
Pravleen Kaur	Midwestern University
Yesaan Rodriguez	Midwestern University

Pharmacy

Diana Saadeh	Midwestern University

Graduate Students Mentored

Primary Advisor

Kristin Marsh	Midwestern University, MBS
John Neal	Midwestern University, MBS

Committee

Sarah Baumgarten	Washington University in St. Louis, PhD
Christopher Lawrence	University of Tulsa, PhD
Olivia Franklin	Idaho State University, MS
Morgan McKenna	Idaho State University, MS
Michelle Carpenter	Idaho State University, MS
Brent Adrian	Arizona State University, PhD

Undergraduate Students Mentored

Khanh To	Oklahoma State University
Gage Holleman	University of Tulsa
Lauren Bateman	University of Tulsa

Awards and Honors

Research Funding

Extramural

2024	The Company of Biologists Scientific Meeting Grant $2,000 PI: Paul Gignac
2017	Sigma Xi Grants in Aid of Research $1,000
2017	Geological Society of America Graduate Student Research Grant $2,445
2016	American Society of Mammalogists Grants-in-Aid $1,429
2016	Larry D. Agenbroad Legacy Fund for Research (Mammoth Site, South Dakota) $750
2010	NSF GK-12 Grant to G. Anderson $60,000 stipend and $5,000 travel
2009	Mancuso Geology Field Experience (BGSU) $500
2009	D.L. Roder Geology Field Experience (BSGU) $1,500
2007	GSA Geoscience Education Division Student Travel Grant $200

Intramural

2025	Midwestern University One Health Research Stimulus Award “The impact of environmental teratogens on the evolution of CNS development genes and their associated phenotypes” $10,000 PI: **Leigha M. Lynch** Co-PI: John Phillips
2024	Midwestern University Core Facility Outsourcing Fund “Teratogenic developmental malformation of the Mosquitofish (*Gambusia affinis*) central nervous system: Comparing pristine and contaminated riverine populations” $4,273 PI: Christopher Heesy

Co-PI: **Leigha M. Lynch**

2024 Midwestern University Core Facility Outsourcing Fund "Determining the effects of environmental teratogens in river systems on the evolution and development of the CNS in vertebrates" $3,939
PI: **Leigha M. Lynch**
Co-PI: John Phillips

2024 Midwestern University Core Facility Outsourcing Fund "Determining the effects of environmental teratogens in river systems on the evolution and development of the CNS in amphibians" $3,846
PI: **Leigha M. Lynch**
Co-PI: John Phillips

2023, 2024 Midwestern University Intramural Research Funds "Determining the effects of environmental teratogens in river systems on the evolution of CNS development genes across clades" $6,200; $5,130
PI: **Leigha M. Lynch**
Co-PI: John Phillips

2022 Midwestern University Core Facility Outsourcing Fund "Investigating the evolutionary mechanisms of brain phenotypic variation" $5,000
PI: Christopher Heesy
Co-PI: **Leigha M. Lynch**

2021 Midwestern University Core Facility Outsourcing Fund "Endocranial volume and morphology across ecoregions of North American river otter (*Lontra canadensis)* $4,757
PI: Christopher Heesy
Co-PI: **Leigha M. Lynch**, Kari Allen, Haley O'Brien

2021 Midwestern University Core Facility Outsourcing Fund "Effects of diffusible iodine-based contrast-enhanced computed tomography (diceCT) on DNA quality in museum wet specimens" $3,400
PI: **Leigha M Lynch**
Co-PI: Paul Gignac, Ashley Morhardt

2016 Oklahoma State University Robberson Summer Graduate Research Fellowship $4,000

2016 Oklahoma State University Women's Faculty Council Research Award $750

2012 Don Sundquist Center of Excellence in Paleontology $200

2011 Don Sundquist Center of Excellence in Paleontology $200

2008 BGSU Undergraduate Research (ASUR) $250

Academic Honors

2024 Letters to a Pre-Scientist Certificate of Appreciation in recognition of Compassionate Connections

2018 Oklahoma State University in Tulsa Research Day 2nd place oral presentation

2018	David and Marvalee Wake Award Honorable Mention
2017	Biomedical Sciences Outstanding Graduate Student Award (OSU)
2016	Oklahoma State University in Tulsa Research Day 1st place poster presentation
2015	Oklahoma State University in Tulsa Research Day 2nd place poster presentation
2009	Conrad and Deanna Allen Fund (BGSU) $350
2009	David V. Jacques Memorial (BSGU) $1,500
2008	Toledo Gem and Rockhound (BSGU) $450
2007	M.S. Lougheed Book Award (BGSU) $250
2006-2009	Academic Investments in Math and Science (BGSU) $15,250
2006-2009	University Professors Scholarship (BGSU) $34,296

Invited Lecture Presentation

"Intraspecific variation in endocast anatomy of the North American River Otter". North American Paleontological Convention Symposium, June 2024, Ann Arbor Michigan

"Carnivoran brain evolution in a changing environment." Valdosta State University, September 19, 2023, Valdosta, Georgia

"Evolving in Isolation: Pleistocene glaciation resulted in the speciation and morphological divergence of the North American pine marten, *Martes*." International Congress on Vertebrate Morphology Symposium, July 2019, Prague, Czech Republic

"Carnivorans as models for understanding morphological evolution in response to environmental variation." Midwestern University, November 10, 2019, Glendale, Arizona

"How equivalent are morphological and molecular species and subspecies? Testing a 12000-year record of fossil and recent *Martes*." Oklahoma State University Women's Faculty Council Award Ceremony, March 30, 2016, Stillwater, Oklahoma

Scientific Publications

Peer reviewed articles

In Prep:

Submitted:

In Review:

Heesy, Christopher P., Leigha M. Lynch. In review. Repeated and concerted evolution of relative brain and cerebellum sizes with body plan in lepidosaurs. *Brain, Behavior and Evolution*.

Accepted:

Published:

Jones, Hansan, Erika Tanquilut, Dominik R. Valdez, Heather F. Smith, Celeste M. Delap, **Leigha M. Lynch**. 2026. North American river otter as a model for understanding environmental influence on the morphology of the inner ear. *Biological Journal of the Linnean Society* 149(2). https://doi.org/10.1093/biolinnean/blag081

Tracey, John, Jon Cornwall, **Leigha M. Lynch**, Heather F. Smith. 2026. Morphological characteristics of the distal iliopsoas tendon and its relationship to adjacent osseous structures. *Cureus* 18(1): e101395. https://doi.org/10.7759/cureus.101395

Smith, Heather F., Felicia A. Rocco, Mia A. Felix, Dominik R. Valdez, **Leigha M. Lynch**. 2026. African wild dog (*Lycaon pictus*) masticatory musculature reveals adaptations to hypercarnivory. *The Anatomical Record* 309(9). https://doi.org/10.1002/ar.25547

Hurdle, Kelsi, Morgan Chase, Callie H. Crawford, Freya E. Goetz, Jaimi A. Gray, Alexander S. Hall, Jennifer J. Hill, John J. Jacisin III, Richard E. Johnston, **Leigha M. Lynch**, Elizabeth Martin-Silverstone, Heather F. Smith, Paul M. Gignac. 2025. A FAIR narrative on Open Science: when, who, what, and how of computed tomography and the NoCTURN network. *Royal Society Open Science* 12(12). https://doi.org/10.1098/rsos.251691

Lane, Colton P., Milena Douglas, Matthew Mckoy, Jonathan Rozeboom, Eshwar S. Karupakula, Harsh C. Patel, Kianna P. Ruble, Rosemary Josenkoski, Samuel Ryabov, Jasmine Zhai, Alexzander Rich, Ainsley Durning, Cole McNeil, Georgianna Miller, Dominik R. Valdez, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2025. Anatomical variation in the external vasculature of the human heart: a cadaveric investigation of dominance in coronary artery branching and cardiac venous drainage. *Annals of Anatomy* 263:152749. https://doi.org/10.1016/j.aanat.2025.152749

Douglas, Milena, Matthew Mckoy, Jonathan Rozeboom, Alexander Rich, Ainsley Durning, Dominik R. Valdez, Heather F. Smith, **Leigha M. Lynch**. 2025. Unique anatomical variations of the lateral femoral cutaneous nerve. *Cureus* 17(8): e89354. https://doi.org/10.7759/cureus.89354

Lee, Andrew H., Julian M. Moore, Brandon Vera Covarrubias, **Leigha M. Lynch**. 2025. Comparing 2D and 3D segmentation quality of BONe (Bone One-shot Network). *The Anatomical Record* 308(12). https://doi.org/10.1002/ar.25633

Jones, T. Bucky, Ping Chu, Brooke Wilkey, **Leigha M. Lynch**, Garilyn Jentarra. 2024. Regional differences in microbial infiltration of brain tissue from Alzheimer's disease patients and control individuals. *Brain Sciences* 14(7): 677. https://doi.org/10.3390/brainsci14070677

Gignac, Paul M., Dominik R. Valdez, Ashley Morhardt, **Leigha M. Lynch**. 2024. Buffered Lugol's iodine preserves DNA fragment lengths in fixed museum specimens. *Integrative Organismal Biology* 6(1). https://doi.org/10.1093/iob/obae017

Smith, Heather F., Mia A. Felix, Felicia A. Rocco, **Leigha M. Lynch**, Dominik R. Valdez. 2024. Adaptations to sociality in the mimetic and auricular musculature of the African wild dog (*Lycaon pictus*). *The Anatomical Record* 307(10). https://doi.org/10.1002/ar.25441

Gignac, Paul M., V. Aceves, S. Baker, J.J. Barnes, J. Bell, D. Boyer, D. Cunningham, F. De Carlo, M.H. Chase, K.E. Cohen, M. Colbert, T. De Cree, J. Daza, L. Dougan, V. DeLeon, F. Duffy, C. Dunham, C.M. Early, D.R. Edey, M.S. Echols, S.A. Eckley, K. Fenner, K.P. Franklin, B. Gila, F.E. Goetz, J.A. Gray, D. Gleiber, A.S. Hall, R. Hanna, M. Hannula, W. Harris, J.J. Hill, C.M. Holliday, K. Hurdle, A. Jayarajan, J. Knaub, A. Krause, A. Leavey, E.J. Lessner, **L.M. Lynch**, M. Maga, J. Maisano, K.M. Marsh, M. Marsh, E. Martin-Silverstone, J. Misiaszek, A.I. Neander, H.D. O'Brien, S. Olson, E. Panigot, S.M.M. Perrine, T.J. Porri, A. Ramsey, A. Rountrey, G. Scheiffele, H.F. Smith, E.L. Stanley, S. Stock, C.E. Terhune, D. Thomas, C.A. Linares Vargas, M. Veltri, J.M. Warnett, A. Watanabe, E.A. Waters, R. Wende, D.J. Wescott, C.B. Withnell, S. Whittaker, Z.E. Wilbur, J. Wilson, M. Wilson, J. Winchester, C.M. Zobek. 2024. The Non-Clinical Tomography Users Research Network: why it matters. Tomography of Materials and Structures 5: 100031. https://doi.org/10.1016/j.tmater.2024.100031

Olson, Thalia, Dureali Mirjat, Terrence B. Ritzman, Timothy L. Campbell, **Leigha M. Lynch**, Heather F. Smith. 2024. Anatomical variants in the thyroid region and clinical implications for emergency airway procedures: a cadaveric case report. *Medical Reports* 4: 100055. https://doi.org/10.1016/j.hmedic.2024.100055

Lynch, Leigha M., Kari L. Allen. 2022. Relative brain volume of carnivorans has evolved in correlation with environmental and dietary variables differentially among clades. *Brain, Behavior and Evolution* 97(5). https://doi.org/10.1159/000523787

Van Handel, Amelia C., **Leigha M. Lynch**, Jimmy H. Daruwalla, James Higgins, Kari L. Allen, Mitchell A. Pet. 2021. Medial femoral trochlea osteochondral free flap reconstruction versus proximal row carpectomy for advanced Kienböck's disease: a morphometric comparison. *Journal of Hand Surgery (European Volume)* 46(10). https://doi.org/10.1177/17531934211031862

Lynch, Leigha M., Ryan Felice, Haley D. O'Brien. 2021. Appendicular skeletal morphology of North American *Martes* reflects a punctuated mode of evolution in conjunction with Pleistocene glacial cycles. *The Anatomical Record* 304(7). https://doi.org/10.1002/ar.24545

Lynch, Leigha M. 2020. Fossil calibration of mitochondrial phylogenetic relationships of North American pine martens, *Martes*, suggests an older divergence of *M. americana* and *M. caurina* than previously hypothesized. *Journal of Mammalian Evolution* 27. https://doi.org/10.1007/s10914-019-09476-7

O'Brien, Haley D., **Leigha M. Lynch**, Greg Erickson, Kent Vliet, John Bruggen, Paul M. Gignac. 2019. Crocodylian head width allometry and a Bayesian framework for predicting body size in extinct suchians. *Integrative Organismal Biology* 1(1). https://doi.org/10.1093/iob/obz006

Lynch, Leigha M. 2019. Limb skeletal morphology of the North American pine marten, Martes americana and Martes caurina, correlates with biome and climate. *Biological Journal of the Linnean Society* 126(2). https://doi.org/10.1093/biolinnean/bly175

King, Leigha M., Steven C. Wallace. 2014. Phylogeny of Panthera, including *P. atrox*, based on craniodental characters. *Historical Biology* 26(6). https://doi.org/10.1080/08912963.2013.861462

King, Leigha M., Steven C. Wallace. 2011. Sexual dimorphism in the black-footed ferret (*Mustela nigripes*) revealed by geometric morphometrics. *Current Research in the Pleistocene* 28: 168–169.

Abstracts
Submitted:
Student Led *
PI Led

Accepted:
Student Led *
Isabel SICB

PI Led

Published:
Student Led *
Durning, Ainsley*, Milena Douglas*, Alexzander Rich*, Georgianna Miller*, Cole McNeil*, Wyatt Gardner*, Kianna P. Ruble*, Harsh C. Patel*, Eshwar S. Karupakula*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2026. Anatomical variation in the vertebral level of common carotid artery bifurcation. *American Association for Anatomy*.

Rich, Alexzander*, Ainsley Durning*, Ho Lok*, Cole McNeil*, Georgianna Miller*, Dominik R. Valdez, Heather F. Smith, **Leigha M. Lynch**. 2026. Anatomical variation of the middle cerebral artery. *American Association for Anatomy*.

Miller, Georgianna*, Cole McNeil*, Alexzander Rich*, Ainsley Durning*, Milena Douglas*, Yesaan Rodriguez*, Jasmine Zhai*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2026. Patterns of variation in the superior mesenteric artery. *American Association for Anatomy*.

Almasri, Wael*, Diana Saadeh*, Sofia V. Barajas*, **Leigha M. Lynch**. 2026. Femoral vein variation for central line placements. *American Association for Anatomy*.

Zhai, Jasmine*, Mason Mitchell*, Rachel Hanna*, Thalia Olson*, Dureali Mirjat*, Colton P. Lane*, Milena Douglas*, Matthew Mckoy*, Jonathan Rozeboom*, Alexzander Rich*, Ainsley Durning*, Georgianna Miller*, Cole McNeil*, Heather F. Smith, **Leigha M. Lynch**, Terrence B. Ritzman, Timothy L. Campbell. 2026. Topographic variation of the suprascapular artery in relation to the superior transverse scapular ligament. *American Association for Anatomy*.

Josenkoski, Rosemary*, Brooke Mahoney*, Kianna P. Ruble*, Alexzander Rich*, Ainsley Durning*, Georgianna Miller*, Cole McNeil*, Heather F. Smith, **Leigha M. Lynch**, Terrence B. Ritzman, Timothy L. Campbell. 2026. Getting to the heart of it: a cadaveric survey of aortic arch variants. *American Association for Anatomy*.

McNeil, Cole*, Georgianna Miller*, Alexzander Rich*, Ainsley Durning*, Wyatt Gardner*, Milena Douglas*, Matthew Mckoy*, Jonathan Rozeboom*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2026. Prevalence and distribution of celiac trunk branching variations in a cadaveric population. *American Association for Anatomy*.

Barajas, Sofia V.*, Wael Almasri*, Diana Saadeh*, **Leigha M. Lynch**. 2026. Subclavian vein variation in central venous access. *Association of Military Osteopathic Physicians and Surgeons*.

Andrea, Blake G.*, James Bates*, Dominik R. Valdez, Heather F. Smith, **Leigha M. Lynch**. 2026. Neuroanatomical correlates of ecological specialization in two mustelid species. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Bates, James*, Blake G. Andrea*, Dominik R. Valdez, Heather F. Smith, **Leigha M. Lynch**. 2026. Comparative cranial musculature of two mustelids: insight into functional morphology and ecology. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Hostetter, Megan*, Dominik R. Valdez, Christopher P. Heesy, John G. Phillips, **Leigha M. Lynch**. 2026. Assessing the impact of sequential staining on microCT data integrity in amphibians. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts.*

Neal, John O.*, Dominik R. Valdez, John G. Phillips, **Leigha M. Lynch.** 2026. Morphological brain variation within the order Cyprinodontiformes. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Rich, Alexzander*, Ainsley Durning*, Ho Lok*, Cole McNeil*, Dominik R. Valdez, Heather F. Smith, **Leigha M. Lynch**. 2026. Anatomical variation of the middle cerebral artery. *AMA Research Challenge*.

Douglas, Milena*, Sofia V. Barajas*, Georgianna Miller*, Eric Dodson, Dominik R. Valdez, Brian Monaghan, **Leigha M. Lynch**. 2025. Enhancing cricothyrotomy training with anatomical accuracy: early findings from a multi-phase study of CTM variation. *Osteopathic Medical Education Conference*.

Jones, Hansan*, Erika Tanquilut*, Dominik R. Valdez, Celeste M. Delap, Heather F. Smith, **Leigha M. Lynch**. 2025. Increasing understanding of which environmental pressures cause variation in vestibular system morphology by using *Lontra canadensis* as a model. *American Association for Anatomy*.

Rios, Rafael A.*, Sofia V. Barajas*, Mathew J. Gross*, John G. Phillips, Christopher P. Heesy, **Leigha M. Lynch**. 2025. Effects of heavy metals on BMP4 in frogs (*Lithobates heckscheri*). *American Association for Anatomy*.

Tracey, John*, Jon Cornwall, **Leigha M. Lynch**, Heather F. Smith. 2025. The role of the lesser trochanter and iliopsoas tendon on the morphological characteristics of the proximal pelvic/femoral musculoskeletal unit. *American Association for Anatomy*.

Douglas, Milena*, Alexzander Rich*, Jonathan Rozeboom*, Matthew Mckoy*, Colton P. Lane*, Thalia Olson*, Dureali Mirjat*, Kianna P. Ruble*, Harsh C. Patel*, Eshwar S. Karupakula*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2025. Anatomical variation in vertebral level of common carotid artery bifurcation: implications for clinical and military settings. *American Association for Anatomy*.

Rios, Rafael A.*, Sofia V. Barajas*, Mathew J. Gross*, John G. Phillips, Christopher P. Heesy, **Leigha M. Lynch**. 2025. Effects of heavy metals on BMP4 in frogs (*Lithobates heckscheri*). *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Tanquilut, Erika*, Hansan Jones*, Dominik R. Valdez, Celeste M. Delap, Heather F. Smith, **Leigha M. Lynch**. 2025. Sexual dimorphism in the vestibular system of the North American river otter. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Jones, Hansan*, Erika Tanquilut*, Dominik R. Valdez, Celeste M. Delap, Heather F. Smith, **Leigha M. Lynch**. 2025. Effects of environment on the morphology of the vestibular system in North American river otter. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Hostetter, Megan*, Dominik R. Valdez, Christopher P. Heesy, John G. Phillips, **Leigha M. Lynch**. 2025. Quantifying variation in the CNS of *Lithobates heckscheri* tadpoles. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Barajas, Sofia V.*, Mathew J. Gross*, Rafael A. Rios*, John G. Phillips, Christopher P. Heesy, **Leigha M. Lynch**. 2025. PAX6 gene variation across gnathostomes. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Tanquilut, Erika*, Hansan Jones*, Dominik R. Valdez, Celeste M. Delap, Heather F. Smith, **Leigha M. Lynch**. 2024. Using the North American river otter as a model taxon to explore the role of sexual dimorphism in benign paroxysmal positional vertigo. *American College of Physicians Chapter Annual Scientific Meeting.*

Jones, Hansan*, Erika Tanquilut*, Dominik R. Valdez, Celeste M. Delap, Heather F. Smith, **Leigha M. Lynch**. 2024. Effects of environment on the morphology of the vestibular system in North American river otter. *American College of Physicians Chapter Annual Scientific Meeting*.

Rozeboom, Jonathan*, Matthew Mckoy*, Milena Douglas*, **Leigha M. Lynch**, Heather F. Smith. 2024. Anatomical variation of the lumbar plexus. *American College of Physicians Chapter Annual Scientific Meeting*.

Rios, Rafael A.*, Sofia V. Barajas*, Mathew J. Gross*, John G. Phillips, Christopher P. Heesy, **Leigha M. Lynch**. 2024. Effects of heavy metals on BMP4 in frogs (*Lithobates heckscheri*). *American College of Physicians Chapter Annual Scientific Meeting.*

Douglas, Milena*, Colton P. Lane*, Matthew Mckoy*, Jonathan Rozeboom*, Eshwar S. Karupakula*, Harsh C. Patel*, Kianna P. Ruble*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2024. Anatomical variations: assessing the impact on surgical risk and patient safety. *Association of Military Osteopathic Physicians and Surgeons, Osteopathic Medical Education Conference Military Track*.

Barajas, Sofia V.*, Mathew J. Gross*, Rafael A. Rios*, John G. Phillips, Christopher P. Heesy, **Leigha M. Lynch**. 2024. PAX6 gene variation across gnathostomes. *Association of Military Osteopathic Physicians and Surgeons, Osteopathic Medical Education Conference Military Track.*

Jones, Hansan*, Erika Tanquilut*, Dominik R. Valdez, Celeste M. Delap, Heather F. Smith, **Leigha M. Lynch**. 2024. How does an organism's ecosystem affect the morphological profile of its vestibular system? *Association of Military Osteopathic Physicians and Surgeons, Osteopathic Medical Education Conference Military Track*.

Karupakula, Eshwar S.*, McKimmon Engelhardt*, Christopher Veltkamp*, Heather F. Smith, **Leigha M. Lynch**, Timothy L. Campbell, Terrence B. Ritzman. 2024. Replaced right hepatic artery: a cadaveric case report. *Student Osteopathic Medical Association Research Symposium*.

Mckoy, Matthew*, Jonathan Rozeboom*, Milena Douglas*, Colton P. Lane*, Eshwar S. Karupakula*, Harsh C. Patel*, Kianna P. Ruble*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2024. Piriformis syndrome revealed: high rates of sciatic nerve variation in a donor population. *American Association for Anatomy*.

Douglas, Milena*, Colton P. Lane*, Matthew Mckoy*, Jonathan Rozeboom*, Eshwar S. Karupakula*, Harsh C. Patel*, Kianna P. Ruble*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2024. Origin of the obturator artery: insights from donor studies. *American Association for Anatomy*.

Tuscano, Jonathan*, Dominik R. Valdez, **Leigha M. Lynch**. 2024. Impact of heavy metals on bone properties in *Lontra canadensis*. *American Association for Anatomy.*

Marsh, Kristin*, Dominik R. Valdez, **Leigha M. Lynch**. 2024. Evaluating sexual dimorphism in brain morphology of *Lontra canadensis*. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Boyer, Angela*, Christopher P. Heesy, Dominik R. Valdez, **Leigha M. Lynch**. 2024. Comparative brain morphology among musteloids. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Olson, Thalia*, Dureali Mirjat*, Terrence B. Ritzman, Timothy L. Campbell, **Leigha M. Lynch**, Heather F. Smith. 2023. Cadaveric investigation of anatomical variants in the thyroid region and clinical implications for emergency airway procedures. *Arizona Physiological Society Annual Meeting*.

Veltkamp, Christopher, McKimmon Engelhardt, Eshwar S. Karupakula*, Harsh C. Patel*, Kianna P. Ruble*, Dureali Mirjat*, Thalia Olson*, Heather F. Smith, **Leigha M. Lynch**, Terrence B. Ritzman, Timothy L. Campbell. 2023. Analysis of high bifurcation of the radial artery: a cadaveric study. *American Association for Anatomy Regional Meeting*.

Tuscano, Jonathan*, **Leigha M. Lynch**. 2023. Impact of heavy metals on bone porosity in Lontra canadensis. *Arizona Physiological Society Annual Meeting*.

Ruble, Kianna P.*, **Leigha M. Lynch**, Heather F. Smith, Terrence B. Ritzman, Timothy L. Campbell. 2023. Preliminary analysis of variation in gonadal artery observed in cadaveric specimens. *American Association for Anatomy Regional Meeting.*

Lane, Colton P.*, Milena Douglas*, Matthew Mckoy*, Eshwar S. Karupakula*, Harsh C. Patel*, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith, **Leigha M. Lynch**. 2023. Cadaveric investigation of posterior interventricular artery variation and review of clinical implications. *American Association for Anatomy Regional Meeting*.

Boyer, Angela*, Christopher P. Heesy, Dominik R. Valdez, **Leigha M. Lynch**. 2023. Comparative brain morphology among musteloids. *Veterinary Scholars Symposium*.

Marsh, Kristin*, Dominik R. Valdez, **Leigha M. Lynch**. 2023. Segmentation methods for highly fused cranial anatomy. *Tomography for Advancement of Science, Annual Meeting Abstracts*.

Felix, Mia A.*, Felicia A. Rocco*, **Leigha M. Lynch**, Heather F. Smith. 2022. African wild dogs (*Lycaon pictus*) show adaptations to sociality and hypercarnivory in their cranial musculature. The FASEB Journal 36(S1). *Experimental Biology 2022 Meeting Abstracts*.

PI Led

Lynch, Leigha M., Sofia V. Barajas*, John G. Phillips. 2026. PAX6 evolution in gnathostomes relative to life history. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts.*

Valdez, Dominik R., Austin Bay*, Hansan Jones*, Celeste M. Delap, Heather F. Smith, Christopher P. Heesy**, Leigha M. Lynch**. 2026. Variation in orbit-to-semicircular canal orientation in the North American river otter. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Heesy, Christopher P., **Leigha M. Lynch**. 2026. On being the right brain-body size. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Lynch, Leigha M., Hansan Jones*, Erika Tanquilut*, Dominik R. Valdez, Celeste M. Delap, Heather F. Smith. 2025. Influence of environmental and behavioral variation on the intraspecific variation of the bony labyrinth of North American river otter. *Program and Abstracts of the 14th International Congress of Vertebrate Morphology.*

Lynch, Leigha M., Eric R. Lynch, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith. 2025. There's an app for that: success of web applications for collaborative anatomical research studies. *American Association for Anatomy*.

Lynch, Leigha M., Dominik R. Valdez, Celeste M. Delap, Heather F. Smith. 2025. Intraspecific variation in the vestibular system of the North American river otter. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*. (Invited special session oral presentation)

Lynch, Leigha M., Dominik R. Valdez, Alexander Claxton, Christopher P. Heesy, Kari L. Allen, Haley D. O'Brien, Ryan Felice. 2024. Intraspecific variation in endocast anatomy of the North American river otter. *North American Paleontological Convention*.

Lynch, Leigha M., Kristin Marsh*, Dominik R. Valdez, Alexander Claxton, Christopher P. Heesy. 2024. Wild North American river otters, *Lontra canadensis*, as a model of sexual size and shape dimorphism of the skull and endocranial cavity. *American Association for Anatomy*.

Lynch, Leigha M., Eric R. Lynch, Timothy L. Campbell, Terrence B. Ritzman, Heather F. Smith. 2024. Web applications as a tool for highly collaborative, multi-institutional research initiatives. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Jentarra, Garilyn, Brooke Wilkey, Ping Chu, **Leigha M. Lynch**, T. Bucky Jones. 2023. Regional differences in bacterial 16S rRNA gene sequences and LPS/LTA extracted from post-mortem brain tissue of AD patients and controls. *Arizona Alzheimer's Consortium*.

Lynch, Leigha M., Dominik R. Valdez, Alexander Claxton, Christopher P. Heesy, Kari L. Allen, Haley D. O'Brien, Ryan Felice. 2023. Endocast morphology differs significantly within North American river otters. *Journal of Morphology*.

Valdez, Dominik R., **Leigha M. Lynch**. 2023. Directional asymmetry in limb bone shape in North American river otter. *Journal of Morphology*.

Heesy, Christopher P., **Leigha M. Lynch**. 2023. Relative brain sizes are related to transitions in body plan in squamates. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts.*

Lee, Andrew H., **Leigha M. Lynch**, Dominik R. Valdez, Brandon Vera Covarrubias. 2023. Effects of climate on the shape and robusticity of forelimb bones in the North American river otter. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Jentarra, Garilyn, Brooke Wilkey, Ping Chu, Fernando Gonzalez, Alexandra Rogers, Johana Vallejo, Doug Jones, **Leigha M. Lynch**, T. Bucky Jones. 2022. Characterization of bacterial 16S rRNA gene sequences extracted from post-mortem brain tissue of AD patients and controls. *Arizona Alzheimer's Consortium*.

Heesy, Christopher P., **Leigha M. Lynch**. 2022. Various modes of whole brain and cerebellum size evolution in conjunction with shifting body plan in lepidosaurs. *JB Johnston Club Annual Meeting*.

Valdez, Dominik R., **Leigha M. Lynch**. 2022. North American river otters exhibit directional asymmetry in limb bone shape. The FASEB Journal 36(S1). *Experimental Biology Meeting Abstracts.*

Smith, Heather F., Mia A. Felix*, Felicia A. Rocco*, **Leigha M. Lynch**. 2022. Adaptations to sociality and hypercarnivory in the facial muscles of the African wild dog (*Lycaon pictus*) and coyote (*Canis latrans*). *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Lynch, Leigha M., Andrew H. Lee, Dominik R. Valdez, Brandon Vera Covarrubias. 2022. North American river otter exhibits variable limb morphology between two disparate geographic regions. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Lynch, Leigha M., Kari L. Allen. 2021. Carnivoran relative brain volume does not correlate with environmental and dietary variation. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts*.

Van Handel, Amelia C., **Leigha M. Lynch**, Jimmy H. Daruwalla, James P. Higgins, Kari L. Allen, Mitchell A. Pet. 2021. Medial femoral trochlea osteochondral free flap reconstruction versus proximal row carpectomy for advanced Kienböck's disease: a three-dimensional morphometric comparison. *American Association for Hand Surgery Annual Meeting*.

Van Handel, Amelia C., **Leigha M. Lynch**, Jimmy H. Daruwalla, James P. Higgins, Kari L. Allen, Mitchell A. Pet. 2020. Quantifying carpal surface variability: 3-dimensional morphometric modeling of wrist anatomy. *American Society for Surgery of the Hand 75th Annual Meeting.*

Van Handel, Amelia C., **Leigha M. Lynch**, Jimmy H. Daruwalla, James P. Higgins, Kari L. Allen, Mitchell A. Pet. 2020. Considering suitability for proximal row carpectomy: surface morphology variability of the lunate facet exceeds that of the proximal capitate. *American Society for Surgery of the Hand 75th Annual Meeting*.

Lynch, Leigha M., Morgan E. McKenna, John V. Dudgeon. 2020. Living on the edge: ecology of the extinct Noble marten as determined by morphological and isotopic evidence. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts.*

Lynch, Leigha M. 2019. Evolving in isolation: Pleistocene glaciation resulted in the speciation and morphological divergence of the North American pine marten, *Martes*. *Journal of Morphology 280: S169.*

Lynch, Leigha M., Kari L. Allen. 2019. Relative brain volume of North American carnivorans does not support the Cognitive Buffer Hypothesis. *Journal of Morphology* 280: S66–S67.

Lynch, Leigha M., Gage Holleman*, Warren Booth. 2019. Accurate phylogenetic relationships can be produced from fragments of DNA. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts: 252*.

Lynch, Leigha M. 2018. Isolation by Pleistocene glaciers resulted in divergence of skeletal limb morphology of North American pine martens, *Martes americana* and *Martes caurina*. *Society for Integrative and Comparative Biology, Annual Meeting Abstracts: 252*.

Lynch, Leigha M. 2017. What does skeletal morphology really tell us? Variation in pine marten limbs by biome and molecular phylogeny. *Geological Society of America Abstracts with Programs 49(6): 229-11*.

Lynch, Leigha M. 2017. Skeletal limb morphology of *Martes americana*, a small mustelid carnivoran, varies predictably by biome but not in correlation with body size. *Journal of Vertebrate Paleontology, Program and Abstracts: 154*.

Lynch, Leigha M. 2016. *Martes americana* is selective in following the rules: a test of Bergmann's and Allen's rules. *Journal of Vertebrate Paleontology, Program and Abstracts: 179*.

Lynch, Leigha M., Eric R. Lynch, Blaine W. Schubert. 2016. Predicting skull size of Brevirostres using cranial pit depth. *Program and Abstracts of the 11th International Congress of Vertebrate Morphology: 168.*

Lynch, Leigha M. 2015. When is enough enough? Evaluation of DNA sequence length in Martes americana with application to aDNA extractions. *Journal of Vertebrate Paleontology, Program and Abstracts: 169*.

Jasinski, Steven, **Leigha M. King**. 2014. The Middle Miocene Carnivora of New Mexico (Tesuque Formation): species patterns, richness, and faunal turnover. *Journal of Vertebrate Paleontology, Program and Abstracts: 154.*

King, Leigha M., Eric R. Lynch, Blaine W. Schubert. 2013. Cranial pit development in extant and fossil *Alligator*. *Journal of Vertebrate Paleontology, Program and Abstracts: 154*.

King, Leigha M., Steven C. Wallace. 2012. Phylogenetic placement of *Panthera atrox* based on cranial and mandibular characters. *Journal of Vertebrate Paleontology 32: 121A*.

King, Leigha M., Steven C. Wallace. 2011. Effect of the genetic bottleneck on the sexual dimorphism of the black-footed ferret (*Mustela nigripes*). *Journal of Vertebrate Paleontology 31: 136A.*

King, Leigha M., Peg Yacobucci, John Farver. 2010. Use of finite element analysis to determine the optimum angle of Thescelosaur (Dinosauria) metatarsals. *Journal of Vertebrate Paleontology 30(3, Suppl.): 115A*.

King, Leigha M., Joe T. Elkins. 2007. Gender differences and results of the Geoscience Concept Inventory on field-based programs. *Geological Society of America Abstracts with Programs 39(6): 317.*

Open-access 3D models

3D open access Sketchfab model of tadpole brain endocast generated in collaboration with Megan Hostetter (CVM student)

https://sketchfab.com/3d-models/lithobates-heckscheri-cns-79bf2768c5d54af7975660f6ff0b8111

3D open access Sketchfab models of carnivoran brain endocasts generated in collaboration with Angela Boyer (CVM student)

https://sketchfab.com/3d-models/procyon-lotor-endocast-anatomy-7983559b314e44ff930a761cfb3eb8fe

https://sketchfab.com/3d-models/pekania-pennanti-endocast-anatomy-2369a0a41af04c2e98fc9985fc54dc4d

https://sketchfab.com/3d-models/neovison-vison-endocast-anatomy-f39ac1a7e80344cc9b0c6907e4f9d9e8

https://sketchfab.com/3d-models/taxidea-taxus-endocast-anatomy-6de91c5d63864b88b4c448b928d5c459

https://sketchfab.com/3d-models/martes-americana-endocast-anatomy-888567dc9f8b4b16887e4f672be9e3f3

https://sketchfab.com/3d-models/mustela-erminea-endocast-anatomy-da57ddaeb69a43f29ae615cf39d0d1c9

3D open access Sketchfab model of otter skull generated in collaboration with Kristin Marsh (CGS student)

https://sketchfab.com/3d-models/lontra-canadensis-skull-anatomy-2db4e773c9f74f2cb956fbd6247ef3b8

Other Scholarly Contributions

Workshops

2025 "From Specimens to CT Datasets: Robust, Reproducible, and Reuse-Ready" Society for Integrative and Comparative Biology, Collaborators: Paul Gignac

Symposia and Special Sessions

2026 "Division of Phylogenetics & Comparative Biology chair's special session: What birds have taught us through organism-focused evolution", Co-Organizers: Molly Womack, Ryan Felice

2025 "Division of Phylogenetics & Comparative Biology chair's special session: What mammals have taught us through organism-focused evolution", Co-Organizers: Molly Womack, Samantha Price, Ryan Felice

2024 "Division of Phylogenetics & Comparative Biology chair's special session: What fishes have taught us through organism-focused evolution", Co-Organizers: Katherine Corn, Samantha Price, Ryan Felice

2023 "Division of Phylogenetics & Comparative Biology chair's special session: What amphibians have taught us through organism-focused evolution", Co-Organizers: David Blackburn, Haley O'Brien

Scientific Booths

2025, 2026 "Non-Clinical Tomography Users Research Network (NoCTURN) Booth" Society for Integrative and Comparative Biology, Co-organizers: Paul Gignac

2019-2026 "Ask-an-Expert Booth" Society for Integrative and Comparative Biology, Co-organizers: Haley O'Brien, Ryan Felice, Samantha Price, Molly Womack

Field and Lab Experience

2023, 2024 Phillips laboratory at Valdosta State University: included field collection of *Lithobates hecksherri* tadpole and adult specimens, *Gambusia holbrooki* adult specimens, in field DNA sampling, specimen cataloguing, and water source sampling

2015-2020	Dudgeon laboratory at Idaho State University: included ancient DNA processing techniques such as sampling, extractions, library amplification, and NextGen sequencing, and training a new master's student in DNA methods
2014-2018	Booth laboratory at University of Tulsa: included modern DNA processing techniques such as extraction, PCR, gel electrophoresis, and Sanger sequencing
2014-2017	Homestead Quarry: included camp management duties such as managing a budget, preparing meals, and restocking supplies, and field work duties such as digging, jacketing specimens, quarry mapping, teaching high school students field methods
2010-2013	Gray Fossil Site: included digging, jacketing specimens, picking sediments, identification of specimens, macerating, preparing, and cataloguing modern specimens for collection
2009	Bowling Green State University Geology Field Camp: included rock unit identification, geologic mapping of units and structures, using ArcGIS
2009	Cincinnati Museum Center Volunteer: preparing specimens (mainly dinosaur)
2008-2009	Museum of the Rockies Field Crew: included digging, jacketing bones, prospecting, logging specimen localities, minor field preparing
2006-2007	Weigmann laboratory Bowling Green State University: included live collection of *Micropterus dolomieu*, tank set-up, animal husbandry

Service and Outreach

Professional Service

2025-Present	Society for Integrative and Comparative Biology, Chair for Division of Phylogenetics and Comparative Biology
2024-2025	Society for Integrative and Comparative Biology, Chair Elect for Division of Phylogenetics and Comparative Biology
2022-Present	NSF funded (Award number 2226186) NoCTURN Research Network, Chair of Conference and Digital Coordination Committee
2021-2024	Society for Integrative and Comparative Biology, Program Officer for Division of Phylogenetics and Comparative Biology
2020-2021	Society for Integrative and Comparative Biology, Program Officer Elect for Division of Phylogenetics and Comparative Biology
2015-2017	Society for Career Opportunities and Professional Exploration, President and Founding Officer (2015-2017)
2013-2017	Biomedical Sciences Graduate Student Association, Senate Representative (2016-2017)
2006-2009	Geology Club Bowling Green State University
2006-2009	Sigma Gamma Epsilon; Secretary (2008)
2006-2009	Base Campus; Activities Coordinator (2009)

Public Outreach

2020	Paleo Talks https://www.youtube.com/watch?v=Um9oSsDwSdc&list=PLJncIemz2Fxwbi-ym8OV4yO2j9wcd1WNI&index=23
2020	Ancient DNA consultant for The Common Descent Podcast https://www.youtube.com/watch?v=BqpLjFjYjMc&t=1s
2019-Present	Letters to a Pre-Scientist pen pal
2018	Thumbroll anatomy dissector https://www.youtube.com/watch?v=YuJ8bFf_je8
2018	Mustelid anatomy consultant for the BBC
2018	Ancient DNA consultant for The Common Descent Podcast
2014, 2015, 2016	Roy Clark Elementary STEM night
2015	Curious Cowboys STEM Camp
2014, 2015	ExplorOlogy Paleo Expedition in Black Mesa field assistant

Press

"Combining DNA and fossil evidence to understand how pine martens evolved through the Ice Age," PHYS.ORG
https://phys.org/news/2019-08-combining-dna-fossil-evidence-martens.html

"One more brutal fact about the Ice Age Arctic: it also had hyenas," The Atlantic
https://www.theatlantic.com/science/archive/2019/06/arctic-hyenas-once-roamed-north-america/591916/

"No, this *mystery creature* is not a dinosaur," EarthTouch News
https://www.earthtouchnews.com/wtf/wtf/no-this-mystery-creature-is-not-a-dinosaur/

"The incredible science of ancient DNA," EarthTouch News
https://www.earthtouchnews.com/natural-world/how-it-works/the-incredible-science-of-ancient-dna/

"Siberia's frozen cave lion cubs: DNA, cause of death & other secrets," EarthTouch News
http://www.earthtouchnews.com/discoveries/discoveries/siberias-frozen-cave-lion-cubs-dna-cause-of-death-other-secrets

Professional Memberships

2020-Present	American Association for Anatomy
2017	Sigma Xi
2017, 2007	Geological Society of America

2017-2018	American Society of Naturalists
2016-2018	Paleontological Society
2016-2018	American Society of Mammalogists
2015-Present	Society for Integrative and Comparative Biology
2007-2021	Society of Vertebrate Paleontology
2010-2013	Don Sundquist Center of Excellence in Paleontology
2010-2013	Southeastern Association of Vertebrate Paleontology

Scholarly Review

Proceedings B
Acta Zoologica
Evolution
Biological Journal of the Linnean Society
Journal of Anatomy
Journal of Biogeography
Journal of Mammalogy
Journal of Vertebrate Paleontology
Northwestern Naturalist
Nature Communications Biology
Journal of Evolutionary Biology
Canadian Journal of Zoology
National Science Foundation