Dr. Andrea Aspbury
Texas State University | Department of Biology
(512) 245-6802 | aa14@txstate.edu

Professional Positions

- Associate Chair Biology for Curriculum — 2026 – Present
- Professor of Instruction, Texas State University — 2024 – Present
- Senior Lecturer, Texas State University. — 2005 – 2024
- Adjunct Doctoral Graduate Faculty, Texas State University. — 2003 – Present
- Guest Lecturer, Etvös Lorand University. — Spring 2019
- Faculty, Mountain Lake Biological Station. — Summer 2013/15
- Lecturer, University of Texas. — 2002 – 2005
- Post-doctoral Research Associate, Texas State University. — 2002 – 2004

Education

- PHD, Univ of Nebraska, Major: Biological Sciences — 2002
- MS, Illinois State University, Major: Biological Sciences — 1996
- BS, University of Arizona, Major: General Biology — 1994

Professional Memberships

- National Association of Biology Teachers — 2024 – Present
- Society for Integrative and Comparative Biology. — 2017 – Present
- Animal Behavior Society — 1998 – 2025

Awards and Honors

- College of Science & Engineering Presidential Distinction Award for Excellence in Service — 2024
- Favorite Professor, Alpha Chi Honor Society. — 2020
- College of Science & Engineering Presidential Distinction Award for Excellence in Teaching — 2015
- College of Science nominee Presidential Award for Excellence in Teaching. — 2010

Faculty Development Activities

Continuing Education Programs

- ACUE Certification — 2025-2026
- STEM Communities Summer Institute, Texas State University. — May / August 2026
- Biology Leadership Conference, San Diego, CA. — April 2026
- STEM Communities Summer Institute, Texas State University. — May 2025
- Biology Leadership Conference, Myrtle Beach, SC — April 2025
- STEM Communities Summer Institute, Texas State University. — May 2024
- Biology Leadership Conference, Tucson, AZ. — April 2024
- STEM Communities Summer Institute, Texas State University. — May 2023
- Biology Leadership Conference, Raleigh, NC. — April 2023
- STEM Communities Summer Institute, Texas State University. — May 2022
- Biology Leadership Conference, Phoenix, AZ — April 2022
- STEM Communities Summer Institute, Texas State University. — May 2021
- Biology Leadership Conference, Online — March 2021
- STEM Communities Summer Institute, Texas State University. — May 2020
- Quality Matters: Designing Your Online Course. — August 2019

- Culturally Aware Mentoring, SURE Program. July 2019
- Culturally Aware Mentoring, SURE Program. June 2018
- Biology Leadership Conference, Orlando, FL. February 2018
- Mentor Training, SURE Program. April 2018
- Foundations in Online & Hybrid Course Design, Texas State University. January 2017
- Biology Leadership Conference, New Orleans, LA. March 2016
- Biology Leadership Conference, Austin, TX. March 2015
- Biology Leadership Conference, Amelia Island, FL. March 2014
- SXSW.edu, Austin, TX. March 2014
- Biology Leadership Conference, Tucson, AZ. March 2013
- MasteringBiology Development Summit, San Francisco, CA. February 2013
- SXSW.edu, Austin, TX. March 2013
- Catalytic Grant working group meeting, University of North Carolina. August 2013
- Biology Leadership Conference, Kiawah Island, SC. March 2012
- Course Redesign Conference, Orlando, FL. March 2011
- Infusing Sustainability into the Curriculum Workshop, San Marcos, TX. May 2010
- Strategies for Success Professional Development Workshop, Dallas, TX. March 2010
- Biology Leadership Conference," Tucson, AZ. March 2009
- Course Redesign Workshop, Miami, FL. September 2009
- Science Education Workshop for Life Science and Chemistry, Houston, TX. March 2008

Workshops attended at Texas State University

- Communicating Progress: Developing Outcomes and Methods Fall 2026
- Multicultural Course Transformation Research Institute May 2024
- Mental Health First Aid Spring 2024
- Communicating Progress: Developing Outcomes and Methods Fall 2023
- Let's Chat About ChatGPT Spring 2023
- Communities of Practice for Inclusive, Equitable STEM (COPIES) Spring 2022
- Ouch, Words Do Hurt! Taking the Power from Stereotypes and Microaggressions Spring 2022
- (Re)discovering Students' Strengths Through Metacognition Fall 2022
- Parts 1- 4: Transforming Our Teaching Using Classroom Observations Spring 2021
- Understanding First-Generation LatinX Student Experiences March 2021
- Confronting Racism in Our STEM Fields February 2021
- How Do We Support Each Other This Spring Semester? January 2021
- Sharing Strategies for Engaging Students Online January 2021
- Parts 1- 4: Improving Our Teaching and Normalizing Feedback Fall 2020
- Supporting Transgender/Non-binary Students October 2018
- Allies Training June 2017
- Do Your Students Get It? Find out with Student Response Systems November 2016
- College Mental health September 2016
- Student Learning Outcomes Assessment September 2016

University Service

- Chair, Curriculum Committee. Dept of Biology 2026 – Present
- Chair, Biology Dept General Education Core Curriculum & SACS Data Coordinator. 2008 – Present
- Co-Chair, Biology Colloquium Organizing Committee 2024 – 2025
- Chair: Organismal Biology Lecturer Search Committee, Biology 2023, 2024
- Member, Curriculum Committee. University 2024 – Present
- Member, Curriculum Committee. College of Science and Engineering 2024 – Present

- Team Leader, Department of Biology Learning Assistants Program. 2020 – 2025
- Team Leader, Freshman Biology Course Redesign. 2020 – 2025
- Member, Instructional Faculty Initial Appointments Committee. Biology Department 2023 – 2025
- Member, Academic Professional Faculty Evaluation Committee. Biology Department 2022 – Present
- Advisor, Birder's of Texas State 2022 – 2023
- Judge, Biology Colloquium. 2007, 2008, 2023
- Member, Undergraduate Research Fellowship Review Committee. 2019 – Present
- Member, Piper Award Committee. Texas State University 2019 – 2023
- Member, Bobcat Day representative for Biology Department. 2017 – Present
- Member, Curriculum Committee. Biology Department 2016 – Present
- Judge, WISE research symposium. 2017 – 2020
- Judge, Honor's College undergraduate research symposium. 2017
- Member, Senior Lecturer Anatomy and Physiology Job Search. 2016 - April 2017
- Member, Strategic Plan committee: IA Salaries. 2016
- Member, Strategic Plan Committee: Lab and Field course support. 2016
- Organizer, Undergrad Large Class Pedagogy and Learning Strategies. 2016
- Member, Department of Biology IA Award Committee. 2011 – 2015
- Host, seminar speaker for Biology department. 2008-10, 14, 24

Professional & Community Service

Editorial Review Board Member, Frontiers in Ecology and Evolution. (2021 - 2022).

Reviewer / Referee: Behavioral Ecology. (2005 - 2023), Behaviour. (2005 - 2023), National Science Foundation (NSF). (2005 - 2023), Ecology and Evolution (2023), iScience (2023), Northeastern Naturalist (2023), Philosophical Transactions B (2023), Oxford (Writing about Biology). (2005 - 2021), Pearson (Biology, Freeman 2nd -11th edns). (2005 - 2023), Ethology Ecology & Evolution. (2020), Animal Behavior Student in Aid Grants. (2011 - 2019), Animal Behaviour. (2005 - 2019), Journal of Ethology. (2018), PLoS One. (2018), Behavioral Ecology and Sociobiology. (2015), Naturwissenschaften. (2014), Current Biology. (2012), National Sciences and Engineering Research Council of Canada (NSERC). (2012), The Royal Society of New Zealand (Te Putea Rangahau a Marsden). (2012), BMC Evolutionary Biology. (2011), Evolutionary Ecology. (2008 - 2010), McGraw-Hill (Biology 1st edn). (2005 - 2008), Aquatic Ecology. (2007), Heredity. (2007), Ethology. (2006 - 2007), Acta Ethologica. (2006), WW Norton (Animal Behavior). (2005 - 2006), Benjamin Cummings (Biology 8th edn.). (2005), Journal of Mammalogy. (2005), AW (Introductory Ecology). (2005), Prentice Hall (Animal Behavior). (2005), Proceedings of the Royal Society of London. (2005), Zebrafish. (2005).

Panel Member, National Science Foundation: 2011 – 2020, 2023, 2024, 2025.

Member, South Austin Creek Association (2023-present)

Volunteer, Austin Parks Foundation (2021 – present)

Chair, Wayside Schools Science and Math Night. (2016 - 2021).

Judge, Wayside Schools Science Fair. (2015 - 2021); Ann Richards School for Young Women Leaders STEM Challenge. (2019), Society for Advancement of Chicanos and Native Americans in Science. (2004).

Speaker, Central Texas chapter of AWIS. (2012); Wimberley Birder's Club. (2011)

Teaching Activities

Courses Developed and Taught (TXST Only)

- Texas State University. Biology Department. Organismal Biology Lecture 2005-Present
- Texas State University. Biology Department. Organismal Biology Lab. 2005 - 2021.
  Texas State University. Biology Department. Animal Behavior 2009- Present

- Texas State University. Biology Department. Professional Development. 2017-2021.
- Texas State University. Distance Learning. Organismal Biology. 2017- Present
- Texas State University. Honors College. Organismal Biology. 2017- Present

Directed Student Learning

- Dissertation. Committee Member: Meg Flanagan 2024 – present
- Dissertation. Committee Member: Kyndal Irwin 2023 – present
- Dissertation. Committee Member: Pema Khandu 2023 – present
- Master's Thesis. Committee Member: Scott Spencer 2025 – Present
- Master's Thesis. Committee Member: Kaya Clove 2025 – Present
- Master's Thesis. Committee Member: Elisa Williams 2023 – 2024
- Master's Thesis. Committee Member: Jared Ryan 2021 – present
- Dissertation. Committee Member: Dillon Monroe
  2021 – 2023
- Honor's Contract Course. Advisor: Sophia Kottke Fall 2023
- Honor's Thesis. Second Reader: Maddie Benoit Fall 2023
- Master's Thesis. Committee Member: Saied Panahi 2022 – 2023
- Master's Thesis. Committee Member: Skyler Shibuya 2022 – 2023
- Master's Thesis. Committee Member: Megan Martinski – 2023
- Master's Thesis. Committee Member: Meg Flanagan 2021 – 2023
- Master's Thesis. Committee Member: Kyndal Irwin 2021 – 2023
- Master's Thesis. Committee Member: Jacob Smith 2021 – 2023
- Master's Thesis. Committee Member: Robert Finer 2020 – 2023
- Master's Thesis. Committee Member: Steven Lopez 2021 – 2022
- Master's Thesis. Committee Member: Elizabeth Kurpiers 2020 – 2022
- Dissertation. Committee Member: Rebekah Rylander 2017 – 2021
- Honor's Thesis. Advised: Emily Blumentritt 2020 – 2021
- Independent Study. Advised: Shelby Chester 2020– 2021
- Master's Thesis. Committee Member: Krystie Miner 2019 – 2020
- Dissertation. Committee Member: Zachary Forsburg 2016 – 2020
- Master's Thesis. Committee Member: McKenna Bristow 2017 – 2019
- Dissertation. Committee Member: Son Young Kim 2016 – 2019
- Independent Study. Advised: Roberto Molina Summer 2019
- Independent Study. Advised: Shante Williams 2017– 2019
- Master's Thesis. Committee Member: Christina Farrell 2017 – 2018
- Honor's Thesis. Advised: Austin Heitmann 2015 – 2018
- Independent Study. Advised: Callie McSpadden 2016 – 2017
- Independent Study. Advised: Pilo Calvillo Summer 2018
- Master's Thesis. Committee Member: Rebekah Rylander 2015
- Dissertation. Committee Member: Chelsea Blake 2014 – 2015
- Master's Thesis. Committee Member: Sophia DeColo 2013 – 2014
- Dissertation. Committee Member: Jeff Troy 2011 – 2013
- Dissertation. Committee Member: Laura Alberici da Barbiano 2009 – 2012
- Master's Thesis. Committee Member: Drew Davis 2011 – 2012
- Master's Thesis. Committee Member: Jim Muraco 2011 – 2012
- Master's Thesis. Committee Member: Chris Warren 2010 – 2011
- Master's Thesis. Committee Member: Jacki Ma 2010 – 2011
- Dissertation. Committee Member: Kristen Epp 2007 – 2010
- Master's Thesis. Committee Member: Vinny Farallo 2008 – 2009
- Master's Thesis. Committee Member: Zachary Holderby 2008 – 2009
- Master's Thesis. Committee Member: Celeste Espinedo 2007 – 2008

- Master's Thesis. Committee Member: Rosie Gonzalez 2006 – 2007
- Master's Thesis. Committee Member: Donelle Robinson 2005 – 2006

Research Activities

Publications

Rylander, R., **Aspbury**, A. S. & Fritts, S. (2026). An investigation into the impact of urbanization on home range size, dispersal patterns, and body condition of a kin-structured songbird, the black-crested titmouse (*Baeolophus atricristatus*). Behav Ecol Sociobiol 80, 92. https://doi.org/10.1007/s00265-026-03771-z

Irwin, K., **Aspbury**, A.S., Bonner, T.H., Gabor, C.R. (2024) Habitat structural complexity predicts cognitive performance and behaviour in western mosquitofish. Biology Letters 20: 20230394. http://doi.org/10.1098/rsbl.2023.0394

Panahi Barough, S.H., **Aspbury**, A.S., Suárez-Rodríguez, M., Zúñiga-Vega. J.J. (2024). Hormonal Dynamics of Matrotrophy vs. Lecithotrophy in Live-Bearing Fish Reproduction. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology 296, 111699. https://doi.org/10.1016/j.cbpa.2024.111699

Rylander, R. J., **Aspbury**, A.S., Simpson, T. R., Weckerly, F., Patten, M., & Fritts, S. R. (2024). Black-crested Titmice (*Baeolophus atricristatus*) initiate nesting earlier in urbanized landscapes but have variable nesting success depending on the level of urbanization. The Wilson Journal of Ornithology. https://doi.org/10.1676/23-00007

Lopez, S. G. , **Aspbury**, A. S. , Fritts, S. R., Tidwell, T., Bonner, T. H. (2023). Long-term patterns in inland fish kills associated with cold-shock and winter stress: a regional case study from Texas. J Fish Biol 103, 472-480. doi: 10.1111/jfb.15435

Kolonin, A. M., Bókony, V., Bonner, T. H., Zúñiga-Vega, J. J., **Aspbury**, A. S., Guzman, A., Calvillo, P., Molina, R. M., Gabor, C. R. (2022). Coping with urban habitats via glucocorticoid regulation: physiology, behavior, and life history in stream fishes. Integrative and Comparative Biology 62, 109-113. https://doi.org/10.1093/icb/icac002

Zúñiga-Vega, J. J., **Aspbury**, A. S., Johnson, J. B., Pollux, B. J. (2022). Editorial: Ecology, evolution, and behavior of viviparous fishes. Frontiers Ecology and Evolution 10:832216. doi.org/10.3389/fevo.2022.832216

Muraco, J. J., Jr., Monroe, D. J., **Aspbury**, A. S., & Gabor, C. R. (2021). Do females in a unisexual-bisexual species complex differ in their behavioral syndromes and cortisol production? Biology, 10(3).

Bókony, V., Ujhegyi, N., Hamow, K., Bosch, J., Thumsová, B, Vörös, J., **Aspbury**, A. S., & Gabor, C. R. (2021). Stressed tadpoles mount more efficient glucocorticoid negative feedback in anthropogenic habitats due to phenotypic plasticity. Science of the Total Environment, 753, 141896.

Miner, K. A., Huertas Pau, M. d. M., **Aspbury**, A. S., & Gabor, C. R. (2021). Artificial light at night alters the physiology and behavior of western mosquitofish (*Gambusia affinis*). Frontiers Ecology and Evolution.

Rylander, R., Fritts, S. R., & **Aspbury**, A. S. (2020). Limited dispersal by large juvenile males leads to kin-structured neighborhoods in the black-crested titmouse (*Baeolophus atricristatus*). Behavioral Ecology and Sociobiology, 74.

Kim, D. **Aspbury**, A. S., Zúñiga-Vega, J. J., & Gabor, C. R. (2019). Smaller rival males do not affect male mate choice or cortisol but do affect 11-ketotestosterone in a unisexual-bisexual mating complex of fish. Behavioural Processes, 167.

Aspbury, A. S., DeColo, S. L., Goff, C. B., & Gabor, C. R. (2019). Turbidity affects association behavior in the endangered fountain darter (Actinopterygii, Perciformes). Hydrobiologia, 838(1), 45–54.

Gabor, C. R., Perkins, H. R., Heitmann, A. T., Forsburg, Z. R., & **Aspbury**, A. S. (2019). Roundup™ with corticosterone functions as an infodisruptor to antipredator response in tadpoles. Frontiers in Ecology and Evolution, 7

Aspbury, A. S., Grayson, K., Fantaye, S., Nichols, I., Myers-Burton, M., Ortiz-Mangual, X., & Gabor, C. R. (2017). The association between male-biased sex ratio and indicators of stress in red-spotted newts. Physiology and Behavior, 173, 156–162.

DeColo, S., **Aspbury**, A. S., Ostrand, K., & Gabor, C. R. (2016). Male – male interactions and their influence on the mating behavior and success in the fountain darter *Etheostoma fonticola*. Acta Ethologica, 19, 15–20.

Reedy, A. M., Edwards, A., Pendlebury, C., Murdaugh, L., Avery, R., Seidenberg, J., **Aspbury**, A. S., & Gabor, C. R. (2014). An acute increase in the stress hormone corticosterone is associated with mating behavior in both male and female red-spotted newts, *Notophthalmus viridescens*. General and Comparative Endocrinology, 208, 57--63.

Alberici da Barbiano, L., Robinson, R., Tobler, M., **Aspbury**, A. S., & Gabor, C. R. (2014). Differences in resource assimilation between the unisexual Amazon molly, *Poecilia formosa* (Poeciliidae) and its sexual host (*Poecilia latipinna*). Environmental Biology of Fishes, 97, 875–880.

Muraco, J., **Aspbury**, A. S., & Gabor, C. R. (2014). Does male behavioral type correlate with species recognition and stress hormones in a unisexual-bisexual mating complex? Behavioral Ecology, 25, 200–205.

Kim, D., Waller, J., **Aspbury**, A. S., & Gabor, C. R. (2014). Mating preferences of the gynogenetic Amazon molly differ between populations sympatric with different host species. Ethology, 120, 1–9.

Gabor, C. R., **Aspbury**, A. S., & Rodríguez, R. L. (2013). Geographic variation in behaviour: An introduction. Evolutionary Ecology Research, 15, 601–604.

Gabor, C. R., Alberici da Barbiano, L., & **Aspbury**, A. S. (2013). Geographic variation in male mate choice in a gynogenetic species complex: evaluating long-term data across mating contexts. Evolutionary Ecology Research, 15(653-666).

Alberici da Barbiano, L., Gompert, Z., **Aspbury**, A. S., Gabor, C. R., & Nice, C. (2013). Population genomics reveals a possible history of backcrossing and recombination in the gynogenetic fish *Poecilia formosa*. Proceedings National Academy of Science, 110, 13797–13802.

Swanbrow, L., **Aspbury**, A. S., & Gabor, C. R. (2012). Body size dependent male sexual behavior in a natural population of sailfin mollies (*Poecilia latipinna*). American Midland Naturalist, 167, 366–372.

Alberici da Barbiano, L., Rangel, L., **Aspbury**, A. S., & Gabor, C. R. (2012). Male permissiveness in a unisexual-bisexual mating complex promotes maintenance of a vertebrate unisexual sperm-dependent species. Behaviour, 149, 869–879.

Gabor, C. R., **Aspbury**, A. S., Ma, J., & Nice, C. (2012). The role of androgens in species recognition and sperm production in Atlantic mollies (*Poecilia mexicana*). Physiology & Behavior, 105(3), 885--892.

Gabor, C., Parmley, M., & **Aspbury**, A. S. (2011). Repeatability of female preferences in a unisexual-bisexual mating system. Evolutionary Ecology Research, 13, 145–157.

Robinson, D. M., Konkin-Garcia, T., Espinedo, C. M., Gabor, C. R., & **Aspbury**, A. S. (2011). Seasonal effects on female fecundity and male sperm availability in a thermal stable temperate population of sailfin mollies (*Poecilia latipinna*). American Midland Naturalist, 166, 394–403.

Alberici da Barbiano, L., **Aspbury**, A. S., Nice, C. C., & Gabor, C. R. (2011). The impact of social context on male mate preference in a unisexual-bisexual mating complex. Journal of Fish Biology, 79, 194–204.

Aspbury, A. S., Coyle, J. M., & Gabor, C. R. (2010). Effect of predation on male mating behaviour in a unisexual-bisexual mating system. Behaviour, 53--63.

Aspbury, A. S., Espinedo, C. M., & Gabor, C. R. (2010). Lack of species recognition based on chemical cues by male sailfin mollies, *Poecilia latipinna*. Evolutionary Ecology, 24, 69–82.

Espinedo, C., Gabor, C. R., & **Aspbury**, A. S. (2010). Males, but not females, contribute to sexual isolation between two sympatric species of *Gambusia*. Evolutionary Ecology, 24, 865–878.

Gabor, C. R., Gonzalez, R., Parmley, M., & **Aspbury**, A. S. (2010). Variation in male sailfin molly, preference for female size: Does sympatry with sexual parasites drive preference for smaller conspecifics? Behavioral Ecology and Sociobiology, 64, 783–792.

Robinson, D. M., **Aspbury**, A. S., & Gabor, C. R. (2008). Differential sperm expenditure by male sailfin mollies, *Poecilia latipinna*, in a unisexual--bisexual species complex and the influence of spermiation during mating. Behavioral Ecology and Sociobiology, 62(5), 705--711.

Gabor, C. R., & **Aspbury**, A. S. (2008). Non-repeatable mate choice by male sailfin mollies, *Poecilia latipinna*, in a unisexual-bisexual mating complex. Behavioral Ecology, 19, 871–878.

Aspbury, A. S. (2007). Sperm competition effects on sperm production and expenditure in sailfin mollies, *Poecilia latipinna*. Behavioral Ecology, 18, 776–780.

Gumm, J. M., Gonzalez, R., **Aspbury**, A. S., & Gabor, C. R. (2006). Do I know you? Species recognition operates within and between the sexes in a unisexual--bisexual species complex of mollies. Ethology, 112(5), 448--457.

Aspbury, A. S., & Gabor, C. R. (2004). Differential sperm priming by male sailfin mollies (*Poecilia latipinna*): Effects of female and male size. Ethology, 110, 193–202.

Aspbury, A. S., & Gabor, C. R. (2004). Discriminating males alter sperm production between species. Proceedings of the National Academy of Sciences, 101, 15970–15973.

Aspbury, A. S., & Gibson, R. M. (2004). Long-range visibility of greater sage grouse leks: a GIS-based analysis. Animal Behaviour, 67, 1127–1132.

Gibson, R. M., **Aspbury**, A., & McDaniel, L. M. (2002). Active formation of mixed-species grouse leks: a role for predation in lek evolution? Proceedings of the Royal Society of London B, 269, 2503–2507.

Aspbury, A. S., & Basolo, A. L. (2002). Repeatable female preferences, mating order, and mating success in the poecilid fish, *Heterandria formosa*. Behavioral Ecology and Sociobiology, 51, 238–244.

Aspbury, A. S., & Juliano, S. A. (1998). Negative effects of habitat drying and prior exploitation on the detritus resource in an ephemeral aquatic habitat. Oecologia, 115(1-2), 137--148.

Conference Proceedings

Aspbury, A. S., Gabor, C. R., Levings, S. (2023). Role of urbanization on life history traits, cognition, physiology, and morphology of Gambusia. Integrative and Comparative Biology, 63.

Romero, E. A., Gabor, C. R., **Aspbury**, A. S. (2022). Effects of urbanization on life-history traits and hormones of Western mosquitofish. Integrative and Comparative Biology, 62.

Chester, S., **Aspbury**, A. S., & Gabor, C. R. (2021). Land use conversion affects life-history traits of western mosquitofish. Integrative and Comparative Biology, 61.

Perez, A., Gabor, C. R., & **Aspbury**, A. S. (2021). Urbanization affects individual behavior and cognition in *Gambusia affinis*. Integrative and Comparative Biology, 61.

Gabor, C. R., **Aspbury**, A. S., Ujhegy, N., & Bokony, V. (2020). Environmental variation from land use conversion affects stress in tadpoles. Integrative and Comparative Biology, 60.

Guzman, A. V., Kolonin, A., **Aspbury**, A. S., & Gabor, C. R. (2020). Land Use Conversion Affects Stress Physiology and Life-History of Western Mosquitofish. Integrative and Comparative Biology, 60.

Molina, R., Kolonin, A. S., **Aspbury**, A. S., & Gabor, C. R. (2020). Western Mosquitofish Social Behavior Varies with Levels of Land Use Conversion. Integrative and Comparative Biology, 60.

Kolonin, A., Calvillo, P., **Aspbury**, A. S., & Gabor, C. R. (2019). Land Use Conversion Affects Stress and Life-History of Stream Fish. Integrative and Comparative Biology, 59

Perkins, H., Heitmann, A., **Aspbury**, A. S., & Gabor, C. R. (2018). Synergistic effects of Roundup and corticosterone on antipredator responses of *Incilius nebulifer* tadpoles. Integrative and Comparative Biology, 58

Presentations

Aspbury, A. S., Gabor, C. R., Shibuya, S. Animal behavior Society. "Hot & Bothered: Elevated Temperatures Impact Sperm Quality & Mating Behavior in a Live-bearing Fish." (2024)

Aspbury, A. S., Gabor, C. R., Levings, S. Society of Integrative and Comparative Biology. "Role of urbanization on life history traits, cognition, physiology, and morphology of *Gambusia*." (2023)

Aspbury, A. S., Nierth, E., Galloway, H., Close, E. Feng, L., Luxford, C., Olmstead, A., Ramey II, C. Biology Leadership Conference. "Involving a Community of Undergraduate Learning Assistants and Faculty in the Redesign of Introductory Biology Courses at a Hispanic Serving Institution" (2022)

Gabor, C. R., Levings, S., Chester, S., Miller, O. Romero, E. A., & **Aspbury**, A. S. International Poecillid Conference. "Role of urban stream syndrome on life history traits and morphology of *Gambusia affinis*." (2022)

Romero, E. A., Gabor, C. R., **Aspbury**, A. S. Society of Integrative and Comparative Biology, "Effects of urbanization on life-history traits and hormones of Western mosquitofish." (2022).

Perez, A., Gabor, C.R., & **Aspbury**, A.S. Society of Integrative and Comparative Biology, "Urbanization affects individual behavior and cognition in *Gambusia affinis*." (2021).

Chester, S., **Aspbury**, A. S., & Gabor, C.R., Society of Integrative and Comparative Biology, "Land use conversion affects life-history traits of western mosquitofish." (2021).

Rylander, R. J., Fritts, S. R., **Aspbury**, A., Weckerly, F., Simpson, T. R., Patten, M., Annual Conference, "Welcome to suburbia: the effects of urbanization on a kin-structured songbird," Texas Chapter of The Wildlife Society, Virtual. (2021).

Perez, A., Gabor, C. R., & **Aspbury**, A.S. Animal Behavior Society Conference, "Urbanization affects individual behavior and cognition in *Gambusia affinis*." (2020).

Gabor, C. R., **Aspbury**, A. S., Ujhegy, N., & Bókony, V., Society of Integrative and Comparative Biology, "Environmental variation from land use conversion affects stress in tadpoles." (2020).

Molina, R., Kolonin, A., **Aspbury**, A. S., & Gabor, C. R., Society of Integrative and Comparative Biology, "Western mosquitofish social behavior varies with levels of land use conversion." (2020).

Perkins, H., Heitmann, A., **Aspbury**, A. S., Gabor, C. R., Society for Integrative and Comparative Biology, "Synergistic effects of Roundup and corticosterone on antipredator responses of *Incilius nebulifer* tadpoles." (2018).

Aspbury, A. S., Gabor, C. R., International Conference of Comparative Endocrinology, "The association between male-biased sex ratio and indicators of stress in red-spotted newts," Lake Louise, Alberta, Canada. (2017).

Aspbury, A. S., "Reflections and Future Directions in Biology Research and Education," National Science Foundation, DBI, Washington, DC, United States. (2017).

Aspbury, A. S., "Operational sex ratio and mating affect a stress hormone in male and female red-spotted newts," University of Canterbury, Christchurch, New Zealand. (2016).

Aspbury, A. S., Animal Behavior Society, "Are red-spotted newts stressed during the mating season when OSR is male biased?" Columbia, MO, United States. (2016).

Aspbury, A. S., "Operational sex ratio and mating affect a stress hormone in male and female red-spotted newts," Mountain Lake Biological Station, Pembroke, VA. (2015).

Kim, D., **Aspbury**, A. S., Gabor, C. R., International Society for Behavioral Ecology Meeting, "Effect of competitors on male mate choice for conspecific or heterospecific females: Proximate regulation by cortisol and an androgen in a unisexual-bisexual complex of fish," New York. (2014).

Aspbury, A. S., "The paradoxical maintenance of a vertebrate gynogenetic species: insights from variation in species recognition," Mountain Lake Biological Station, Pembroke, VA. (2013).

Aspbury, A. S., "The paradoxical maintenance of a vertebrate gynogenetic species: insights from variation in species recognition," Department of Biology, Trinity University, San Antonio, TX. (2013).

Aspbury, A. S., Kim, D., Waller, J., Gabor, C. R., Animal Behavior Society Meeting, "Female preference for familiarity vs. LPA by gynogens in a unisexual-bisexual mating complex," Boulder, CO. (2013).

Alberici da Barbiano, L., Robinson, R., Tobler, M., **Aspbury**, A. S., Gabor, C. R., Second Texas Poecilid Conference, "Differences in resource assimilation between a sperm-dependent unisexual species and its sexual host," Austin, TX. (2012).

Alberici da Barbiano, L., Pena, K., **Aspbury**, A. S., Gabor, C. R., Texas Poecilid Conference, "Effects of heterospecific encounters on stress hormone levels in a unisexual-bisexual mating complex," Austin, TX. (2012).

Muraco, J., **Aspbury**, A. S., Gabor, C. R., Second Texas Poecilid Conference, "Male behavioral type and its correlates with species recognition and hormone production in a unisexual-bisexual mating complex," Austin, TX. (2012).

Aspbury, A. S., Alberici da Barbiano, L., Rangel, L., Gabor, C. R., Animal Behavior Society Meeting, "Male permissiveness in a unisexual-bisexual mating complex," Albuquerque, NM. (2012).

Alberici da Barbiano, L., Gompert, Z., Buerkle, A., **Aspbury**, A. S., Gabor, C. R., Nice, C., Texas Poecilid Conference, "Phylogeography of a unisexual-bisexual mating complex: a population genomics approach." (2012).

Gabor, C. R., **Aspbury**, A., Nice, C. C., Texas Poecilid Conference, "The role of androgens in species recognition and sperm production in Atlantic mollies (*Poecilia mexicana*)." (2012).

Aspbury, A., "Effect of hormones on male sperm production in a unisexual-bisexual mating system," Physiology and Behavior, University of Texas-Austin, Austin, TX. (2011).

Gabor, C.R., **Aspbury**, A., Animal Behavior Society Meeting, "Geographic variation in mate choice in a uni-bisexual complex," Bloomington, IN. (2011).

Alberici da Barbiano, L. A., Gompert, Z., Buerkle, A., Gabor, C. R., **Aspbury**, A., Nice, C., JMIH Conference, "Phylogeography of a Unisexual-bisexual Mating System." (2011).

Alberici da Barbiano, L.A., Nice, C., **Aspbury**, A., Gabor, C. R., Animal Behavior Society Meeting, "The impact of social context on male mate preference in a unisexual-bisexual mating complex," Bloomington, IN. (2011).

Aspbury, A. S., "Unraveling the paradox of the maintenance of vertebrate asexuals," Behavior, Ecology, Evolution and Systematics Program, Illinois State University, Normal, IL. (2010).

Aspbury, A. S., "Unraveling the paradox of the maintenance of vertebrate asexuals," Department of Earth and Environmental Sciences, University of New Orleans, New Orleans, LA. (2010).

Gabor, C. R., Ma, J., **Aspbury**, A. S., Animal Behavior Society 47th Meeting, "Androgen response in a unisexual-bisexual mating complex," Williamsburg, VA. (2010).

Alberici da Barbiano, L., Gompert, Z., **Aspbury**, A. S., Gabor, C. R., Nice, C., Annual Ecological Integration Symposium, "Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model," Texas A&M University. (2010).

Alberici da Barbiano, L., Gompert, Z., **Aspbury**, A. S., Gabor, C. R., Nice, C., Evolution Annual Meeting, "Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model," Portland, OR. (2010).

Alberici da Barbiano, L., Gompert, Z., **Aspbury**, A. S., Gabor, C. R., Nice, C., Texas Academy of Sciences Conference, "Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model." (2010).

Alberici da Barbiano, L., Gompert, Z., **Aspbury**, A. S., Gabor, C. R., Nice, C., Wise Conference, "Metapopulation dynamics and sperm storage may explain the maintenance of a vertebrate gynogenetic species: A simulation model," Texas State University. (2010).

Rangel, L. I., Gabor, C. R., **Aspbury**, A. S., Animal Behavior Society 47th Meeting, "Permissiveness of males in a unisexual-bisexual mating complex," Williamsburg, VA. (2010).

Ma, J., **Aspbury**, A. S., Gabor, C. R., Animal Behavior Society 47th Meeting, "Sperm priming, 11-ketotestosterone, and male mate preference in *Poecilia mexicana*," Williamsburg, VA. (2010).

Aspbury, A. S., Coyle, J. M., Gabor, C. R., Animal Behavior Society 46th Meeting, "Effect of predation on male mating behavior in a unisexual-bisexual mating system," Pirenopolis, Brazil. (2009).

Alberici da Barbiano, L.A., **Aspbury**, A. S., Gabor, C. R., Gompert, Z., Nice, C.C., Texas Poecilid Biologist Conference, "Metapopulation dynamics and sperm storage: a simulation model to explain the maintenance of Poecilia formosa," San Marcos, TX. (2009).

Parmley, M., Gabor, C. R., **Aspbury**, A. S., Animal Behavior Society 46th Meeting, "Sexually parasitic unisexual Amazon molly mate preference for large males: sensory bias or direct benefits?" Pirenopolis, Brazil. (2009).

Gabor, C. R., **Aspbury**, A. S., Evolution Meeting, "Male preference functions based on female size in the sailfin molly, Poecilia latipinna: bigger is not always better," Minneapolis, MN. (2008).

Espinedo, C. M., Gabor, C. R., **Aspbury**, A. S., Evolution Annual Meeting, "Symmetrical isolation: A tale of two species," Minneapolis, MN. (2008).

Aspbury, A. S., "Sperm competition effects on sperm production and expenditure in sailfin mollies, *Poecilia latipinna*," Sam Houston State University, Huntsville, TX. (2007).

Espinedo, C. M., **Aspbury**, A. S., Gabor, C. R., Animal Behavior Society 44th Meeting, "Male mate choice in *Gambusia*," Burlington, VT. (2007).

Alberici da Barbiano, L., Gabor, C. R., **Aspbury**, A. S., Nice, C., Animal Behavior Society 44th Meeting, "Unisexual-bisexual mating systems: Is male fitness influenced by the frequency of unisexual heterospecific females?" Burlington, VT. (2007).

Aspbury, A. S., "Species recognition versus mate quality recognition in a unisexual-bisexual system: Asexuals looking for sperm," Dept. of Biological Sciences, Illinois State University, Normal, IL. (2006).

Robinson, D., **Aspbury**, A. S., Gabor, C. R., Evolutionary Behavioral Ecologists Regional Annual Meeting, "Differential sperm expenditure between species in the sailfin molly, *Poecilia latipinna*," Lake Texoma, OK. (2006).

Espinedo, C., **Aspbury**, A. S., Gabor, C. R., Evolutionary Behavioral Ecologists Regional Annual Meeting, "Effect of chemical vs. visual cues on sperm priming in sailfin mollies, Poecilia latipinna," Lake Texoma, OK. (2006).

Robinson, D., **Aspbury**, A. S., Gabor, C. R., "Rapid spermiation during mating by male sailfin molly, Poecilia latipinna," International Society for the Study of Behavioral Ecology, Tours, France. (2006).

Aspbury, A. S., "Varying perception of operational sex ratio influences male sperm production and expenditure in sailfin mollies, *Poecilia latipinna*," International Society for the Study of Behavioral Ecology, Tours, France. (2006).

Espinedo, C. M., Gabor, C. R., **Aspbury**, A. S., Animal Behavior Society 42nd Meeting, "Analyzing the significance of chemical versus visual cues for species recognition in male sailfin mollies," Snowbird, UT. (2005).

Robinson, D., **Aspbury**, A. S., Gabor, C. R., Animal Behavior Society 42nd Meeting, "Differential sperm allocation in the sailfin molly, *Poecilia latipinna*," Snowbird, UT. (2005).

Gonzalez, R., Gabor, C. R., **Aspbury**, A. S., Animal Behavior Society 42nd Meeting, "Differential sperm transfer in relation to size in sailfin mollies, Poecilia latipinna," Snowbird, UT. (2005).

Aspbury, A. S., "Behavioral ecology of male mating strategies in birds and fish," Section of Integrative Biology, University of Texas Austin, Austin, TX. (2004).

Aspbury, A. S., Gabor, C. R., Joint Meeting of the American Society of Ichthyologists and Herpetologists, "Differential sperm priming by male sailfin mollies (*Poecilia latipinna*): effects of male size, female size and female species," Norman, OK. (2004).

Aspbury, A. S., "Behavioral ecology of male mating strategies in birds and fish," Department of Biology, Southwestern University, Georgetown, TX. (2003).

Aspbury, A. S., "Visibility of sage grouse leks: interacting effects of mate attraction and predator avoidance?" Department of Biology, University of Louisiana at Lafayette, Lafayette, LA. (2003).

Aspbury, A. S., Gabor, C. R., Animal Behavior Society 40th Meeting, "Differential sperm priming by male sailfin mollies (*Poecilia latipinna*)," Boise, ID. (2003).

Aspbury, A. S., Gabor, C. R., First European Conference of Poecilid Biologists, "Differential sperm priming by male sailfin mollies (*Poecilia latipinna*)," Zurich, Switzerland. (2003).

Aspbury, A. S., "Visibility of sage grouse leks: interacting effects of mate attraction and predator avoidance?" Department of Biology, Southwest Texas State University, San Marcos, TX. (2002).

Aspbury, A. S., Gibson, R. M., United States Regional Association of the International Association of Landscape Ecology Annual Meeting, "Ecological mechanisms underlying mixed species lek formation in prairie grouse," Lincoln, NE. (2002).

Aspbury, A. S., Gibson, R. M., Animal Behavior Society 39th Meeting, "Sage grouse lek at sites with low visibility," Bloomington, IN. (2002).

Aspbury, A. S., Gibson, R. M., American Ornithological Union Meeting, "Ecological mechanisms underlying mixed species lek formation in prairie grouse," Seattle, WA. (2001).

Aspbury, A. S., Gibson, R. M., Animal Behavior Society 38th Meeting, "Ecological mechanisms underlying mixed species lek formation in prairie grouse," Corvallis, OR. (2001).

Aspbury, A. S., Gibson, R. M., Initiative for Ecological and Evolutionary Analysis Meeting, "Ecological mechanisms underlying mixed species lek formation in prairie grouse," Lincoln, NE. (2001).

Aspbury, A. S., Gibson, R. M., Animal Behavior Society 37th Meeting, "Mechanisms of mixed species lek formation in prairie grouse," Atlanta, GA. (2000).

Aspbury, A. S., Basolo, A. L., Annual Meeting of the Society for the Study of Evolution, "Post- copulatory sexual selection in poecilid fish," Madison, WI. (1999).

Aspbury, A. S., Juliano, S. A., Annual Meeting of the Ecological Society of America, "Effects of habitat drying and a prior non-overlapping cohort on growth and development of Aedes triseriatus," Providence, RI. (1996).

Aspbury, A. S., Juliano, S. A., Illinois State University Graduate Research Symposium, "Effects of habitat drying and prior cohort on *Aedes triseriatus*," Normal, IL. (1996).

Contract, Fellowships, Grants and Sponsored Research

Fritts, S. R., **Aspbury**, A.S. "Experimental testing of a novel hypothesis regarding bat attraction to wind turbines." Research Enhancement Program Grant, Texas State University. $16,000. Funded 2022-2023.

Galloway, H. C. (Principal), Olmstead, A. R. (Co-Principal), Ojeda-Ruiz, I. (Co-Principal), **Aspbury**, A. S. (Co-Principal), Feng, L. (Co-Principal), Close, E.W. (Supporting), Patterson, C. L. (Supporting), Luxford, C. J. (Supporting), Lewis, K. A. (Supporting), Nierth, E. N. (Supporting), "Bobcat Aspiring Scholars in STEM (BASS)," Sponsored by National Science Foundation, Federal, $1,500,000.00. (Not Funded 2022).

Gabor, C. (Principal), **Aspbury**, A. S. (Co-Principal), Fuess, L. E. (Co-Principal), "Integrative approach to understand how multi-scalar shifts contribute to adaptive responses to stream urbanization over space and time," Sponsored by National Science Foundation, Federal, $1,545,420.00. Not Funded (2021).

Aspbury, A. S. (Supporting), "Freshman Research Initiative: Comprehensive Underpinnings Backing Educational Development," Sponsored by National Science Foundation, Federal. Not funded. (2018)

Aspbury, A. S., "Pedagogical approaches to teaching scientific communication and behavioral ecology," Sponsored by Fulbright, Federal. Not funded. (2019)

Aspbury, A. S., "Catalytic Research Grant," Sponsored by Biology Leadership Conference, Private / Foundation / Corporate, $5,000.00. (2013). Funded.

Aspbury, A., Gabor, D. C., Nice, C. C., "REU Supplement," Sponsored by National Science Foundation, Federal, $6,000.00. (2013). Funded

Aspbury, A. S., Gabor, C. R.., Nice, C. C., "The Maintenance of Unisexuality: Behavior, Hormones and Genetics in a Unisexual-Bisexual Mating System," Sponsored by National Science Foundation, Federal, $350,000.00. (2010 - 2013). Funded

Aspbury, A. S., Gabor, C. R.., Nice, C. C., "REU Supplement," Sponsored by National Science Foundation, Federal, $6,000.00. (2012). Funded

Aspbury, A. S., Gabor, C. R.., Nice, C. C., "REU Supplement," Sponsored by National Science Foundation, Federal, $6,000.00. (2011). Funded

Aspbury, A. S. (Co-Principal), Gabor, C. R.., "Species Recognition vs Mate Quality Recognition in a Unisexual-Bisexual Mating System: Asexuals Looking for Sperm," Sponsored by National Science Foundation, Federal, $299,477.00. (2004 - 2008). Funded

Gabor, C. R. (Principal), **Aspbury**, A. S. (Co-Principal), Nice, C. (Co-Principal), "Ecological and Evolutionary Perspectives on the Maintenance of Unisexual Gynogens: Behavioral Implications," Sponsored by National Science Foundation, Federal, $399,975.00. (2007). Not Funded

Aspbury, A. S. (Co-Principal), Gabor, C. R., "REU Supplement," Sponsored by National Science Foundation, Federal, $6,000.00. (2006). Funded

Gabor, C. (Principal), **Aspbury**, A. S. (Co-Principal), Nice, C. (Co-Principal), "RET Supplement," Sponsored by NSF–DIB, Federal, $5,890.00. (2005). Funded

Aspbury, A. S. (Co-Principal), Gabor, D. C., "REU Supplement," Sponsored by National Science Foundation, Federal, $5,890.00. (2005). Funded