

## TEXAS STATE VITA

### I. ACADEMIC/PROFESSIONAL BACKGROUND

CAITLIN RATHIE GABOR

Associate Professor, Department of Biology

#### EDUCATIONAL BACKGROUND

Ph.D. 1997 **University of Louisiana, Lafayette**, Environmental and Evolutionary Ecology, Department of Biology  
“Behavioral and genetic variation in Salamandridae and Poeciliidae: implications for mate choice and kin recognition”

M.S. 1993 **University of Louisiana, Lafayette** (formerly USL), Biology, Department of Biology  
“The effects of prey type on territorial quality of *Plethodon cinereus*”

B.A. 1990 **University of California, Santa Barbara**, Aquatic Biology (*Honors*), Department of Biology

1986-1988 **Tufts University**, Undergraduate work, Department of Biology

#### UNIVERSITY EXPERIENCE

2008-2009 Developmental leave (second semester awarded by Dr. Trauth).

2005-present **Texas State University**, Associate Professor, Department of Biology  
(Note: I was on maternity leave for 50% time for spring 2007)

2000-2005 **Texas State University**, Assistant Professor, Department of Biology

1999-2000 **University of Texas, Austin**, Postdoctoral Research Associate/ Lecturer, Department of Zoology

#### PROFESSIONAL EXPERIENCE

1997-1999 **University of Texas, Austin**, NSF Postdoctoral Researcher, Department of Zoology

1993-1997 **University of Louisiana, Lafayette**, Doctoral Fellows, Department of Biology

1991-1993 **University of Louisiana, Lafayette**, Teaching Assistant, Department of Biology

1997 **James Madison University**, VA, Visiting Scientist, Department of Biology

1994 **The Open University**, England, Visiting Research Fellow, Department Biology

#### RESEARCH EXPERIENCE

1990 **University of California, Santa Barbara**, Volunteer Research Technician, distribution and behavior of *Hemisquilla ensigera*, Dr. Jack Engle

1989 **University of California, Santa Barbara**, Research Technician (R.E.U.), courtship behavior of *Thalassima bifasciatum*, Dr. Robert Warner

1989 **West Indies Laboratory**, Volunteer Research Assistant, territoriality of *Acanthemblamaria*, Dr. Ray Clarke (Sarah Lawrence University)

## II. TEACHING

### COURSES TAUGHT

- EVOLUTIONARY ECOLOGY, Fall 2004, 2006. Department of Biology, Texas State University. Graduate course.
- ANIMAL BEHAVIOR, Spring 2004, Fall 2005. Department of Biology, Texas State University. Undergraduate course.
- DOCTORAL RESEARCH, 2005-present. Department of Biology, Texas State University, Doctorate.
- GRADUATE THESIS RESEARCH, 2001-present. Department of Biology, Texas State University,
- GRADUATE SEMINAR, Fall 2003, 2006; Spring 2003, 2004, 2008. Department of Biology, Texas State University. Graduate course on Behavioral Ecology with a different focus in each semester.
- BEHAVIORAL ECOLOGY, Spring 2002, 2006; Fall 2003. Department of Biology, Texas State University. Graduate course.
- ORGANISMAL BIOLOGY, Fall 2001, 2002, 2007; Spring 2003, 2005, 2008. Department of Biology, Texas State University. Undergraduate course
- UNDERGRADUATE INDEPENDENT RESEARCH, 2000 – present, Department of Biology, Texas State University.

### THESIS/DISSERTATION COMMITTEES

#### Advisor:

1. John Waller (Spring 2009-present) - MS
2. Celeste Espinedo (Fall 2006 – 2008) –MS Thesis title: The degree of reproductive isolation in *Gambusia affinis* and *Gambusia geiseri*. Durrenberger Scholarship, Best undergraduate student presentation Biology Colloquium, TSU 2006.
3. Laura Alberici da Barbiano (Fall 2006 – present) –PhD – Raney Award (ASIH), McCarley Award (SWAN), Durrenberger Scholarship for Women, Sigma Xi, Alexander Stone Genetics Scholarship Award, and Schluze Award
4. Kristen Epp (2004 -present) – PhD –Sigma Xi, Durrenberger Scholarship, Associated Student Government, Norris Scholarship, Runner up Outstanding Graduate student presentation Biology Colloquium. Flowing Waters NSF Fellow.
5. Rosie Gonzalez (Fall 2004-2007) – MS Thesis title: Male mate choice in relation to female and male size in *Poecilia latipinna*.
6. Donelle Robinson (Fall 2004 -2006) – M. S. Thesis title: Differential sperm expenditure between species in the sailfin molly, *Poecilia latipinna*. Durrenberger Scholarship. Three year RA from Dr. Morris at Ohio University for PhD.
7. Jennifer Gumm (2002-2004) – MS. Thesis: Species and mate-quality recognition in *Poecilia latipinna*. PhD from Lehigh University with Dr. Murray Itzkowitz 2008. Runner up for the Biology Graduate Student Colloquium 2004
8. Maria Thaker (2002-2004) – MS Thesis: Sensory cues, association preferences, and social interactions of the San Marcos salamander (*Eurycea nana*). Five year RA in the PhD program at Indiana State University with Dr. Diana Hews and Dr. Steve Lima. Schulze Scholarship, Norris Scholarship, Best Graduate student talk Biology

Colloquium 2004, Stoye Award for Best student presentation, 2004, American Society of Ichthyologists and Herpetologists national conference.

Committee Member:

- Clay Williams MS (Dr. Nice), 2008
- Lauren Lucas MS (Dr. Nice), 2006
- Scott Egan MS (Dr. Ott), 2004
- Erin Foster MS (Dr. Lavalli) 2001,
- Carmen Hall MS (Dr. Ott) 2001,
- Richard Reynolds MS (Dr. Ott) 2000,

Outside Committee Member

- Nancy Kohn-Phd- University of Louisiana, Lafayette (Dr. Moon) 2005- 2008.

Postdoctoral Advisor

- 2003-2005 Dr. Andrea Aspbury, University of Nebraska

**ADVISOR**

Undergraduate Students mentored

- Max Muzeri (2008-present)
- Nick Bertrand (2008-present)
- Mark Vanderslice (2008-present)
- Julia Coyle (2008-2009)- Bio 4299
  - Francis Rose Undergraduate Award 2008
- Michelle Parmely (2007-present)-Bio 4299
  - Durrenberger Scholarship 2008
  - Francis Rose Undergraduate Award 2008
- Ray Gonzales (2007-2008) Bio 4299
- Elizabeth Vanderwerkin (2007)- 4299
- Tamira Konkin-Garcia (2006-2008)
  - Durrenberger Scholarship 2007
  - Francis Rose Undergraduate Award for Excellence in Research 2006
  - Runner- up Mitte Honors Poster presentation 2007
- Holly Brewer (2005-2007)
- Paul Phillips IV (2005)
- Robert Schreiber (2005-2006)
- Celeste Espindeo (2005-2006) – Bio 4299
  - Durrenberger Scholarship 2006
  - Outstanding Undergraduate Presentation Biology Colloquium
  - Turner Diversity Award to attend National ABS conference
- Rebecca Fields (2003-2004)
- Rosie Gonzalez (2004)
- Danielle King (2002-2004)-Bio 4299
  - Smith-Willms Scholarship, 2002
  - Field Biology Scholarship, 2003

- Turner Minority Undergrad Award to attend National ABS conference
- Andrew Dullnig (2002)
- Tami Tarbox (2002)
- Carlene Worthington (2001-2002)
- Anthony Wubbena (2002)

### **COURSES PREPARED**

EVOLUTIONARY ECOLOGY, (Bio 5319, Bio 7306) Fall 2004. Wrote lectures and integrated research papers.

ANIMAL BEHAVIOR, (Bio 4472) Spring 2004, Wrote lectures and organized student presentations.

GRADUATE SEMINAR, (Bio 5110) Fall 2003, Spring 2003, Spring 2004, Fall 2006  
Organized reading groups on different topics in Behavioral Ecology.

BEHAVIORAL ECOLOGY, (Bio 5367) Fall 2003, Spring 2002. Wrote lectures and integrated research papers.

### **GUEST TEACHING LECTURES**

ECOLOGY (Undergraduate), Agnes Scott College, Atlanta Georgia 2008

ORGANISMAL BIOLOGY (Undergraduate), Texas State University

- Behavioral Ecology with emphasis on sexual selection theory 2000 - 2005
- Behavioral Biology: introduction to Ethology 2001

EVOLUTION (Undergraduate), Southwest Texas State University

- Sexual selection: Darwin, Fisher, Zahavi, & Maynard Smith 2001

ANIMAL BEHAVIOR (Undergraduate), University of Texas, Austin

- Polyandry and Sperm competition. 1998

EVOLUTION AND ECOLOGY (Undergraduate), University of Louisiana

- Darwin's theory of sexual selection. 1997
- Theories of mate choice: why females tend to be choosy about sexual partners. 1997.
- Why human females are more coy and human males more aggressive: parental investment theory. 1996
- Sequential mating by females and sexual strategies. 1994
- Intraspecific competition and territoriality. 1992

EVOLUTIONARY ECOLOGY (graduate), University of Southwestern Louisiana

- Sexual selection: pre-existing biases and sensory drive. 1996
- Sexual selection: theories of Darwin, Fisher, Zahavi, and Maynard Smith. 1994, 1996

BEHAVIORAL ECOLOGY (graduate), University of Southwestern Louisiana

- Sperm Competition. 1993

### **FUNDED EXTERNAL TEACHING GRANTS**

2005 NSF-DIB, RET Supplement

\$5,890

|  |         |
|--|---------|
| 2003 <b>Texas Higher Education Coordinating Board (THECB),</b> | \$8,100 |
| Supplemental grant for High School Teachers – Matt Holmes      |         |
| 2002 <b>THECB,</b>   | \$8,100 |
| Supplemental grant for High School Teachers – Matt Holmes      |         |

### PROPOSALS SUBMITTED/Not funded

- 2002 **SWT ACC computer grant** with Mike Forstner and Chris Nice– “Power to the computer: ground-up computer use for biology majors” \$102,121
- 2002 **PKAL Roundtables on the Future** – “Assessment in the Service of Student Learning”. Sponsored by Sigma Xi, The Scientific Research Society.

## II. SCHOLARLY/CREATIVE

### REFEREED JOURNAL ARTICLES

1. A. Aspbury, \*‡C. Espinedo, & **C. R. Gabor**. In press. Lack of species discrimination based on chemical cues by male sailfin mollies, *Poecilia latipinna*. *Evolutionary Ecology* doi:10.1007/s10682-008-9291-z. (IF 2.91)
2. ‡Lucas, L.K., Fries, J. N., **Gabor, C. R.**, & Nice, C. C. In press. Genetic variation and structure in *Eurycea nana*, a federally threatened salamander endemic to the San Marcos Springs. *Journal of Herpetology*. (IF 0.86)
3. **Gabor, C. R.** & A. S. Aspbury. 2008. Non-repeatable mate choice by male sailfin mollies, *Poecilia latipinna*, in a unisexual-bisexual mating complex. *Behavioral Ecology* 19: 871-878. (IF 3.02)
4. ‡K. J. Epp & **C. R. Gabor**. 2008. Innate and learned predator avoidance mediated by chemical cues in *Eurycea nana*. *Ethology* 114:607-615. (IF 1.90)
5. ‡ D. M. Robinson, A. S. Aspbury, & **C. R. Gabor**. 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*; 62:705-711. (IF 2.75)  
(Note, I was on maternity leave for 50% time for spring 2007)
6. ‡Thaker, M., **C. R. Gabor**, & J. N. Fries. 2006. Sensory cues and association in San Marcos salamanders. *Herpetologica* 62:151-155. (IF 0.98)
7. ‡Gumm, J. M, \*R. Gonzalez, A. S. Aspbury, & **C. R. Gabor**. 2006. Do I know you? Species recognition in a unisexual-bisexual species complex of mollies. *Ethology* 112:448-457. (IF 1.90)
8. ‡Gumm, J. M, & **C. R. Gabor**. 2005. Asexuals looking for sex: Conflict between species And mate-quality recognition in sailfin mollies. *Behavioral Ecology and Sociobiology* 58:558-565. (IF 2.32)
9. **Gabor, C. R.**, M. J. Ryan, & D. C. Morizot. 2005. Character displacement in sailfin mollies, *Poecilia latipinna*: allozymes, behavior, and morphology. *Environmental Biology of Fishes*. 73: 75-88. (IF 1.13)

10. Aspbury, A. S., & **C. R. Gabor**. 2004. Discriminating males alter sperm production between species. *Proceedings of the National Academy of Sciences* 101:15970-15973. (IF 10.45)  
  
(FEATURED IN SCIENCE NOW, SCIENCE MAGAZINE'S ONLINE NEWS SERVICE 11/04; CBC RADIO QUIRKS AND QUARKS, 11/04; PNAS ARTICLE HIGHLIGHTS, 11/04; NATURAL HISTORY MAGAZINE 3/05; WISSENSCHAFT ONLINE, 11/04; LE SCIENZE ONLINE, 11/04)
11. **Gabor, C. R.** & C. C. Nice. 2004. Genetic variation among populations of *Eastern Newts, Notophthalmus viridescens*: A preliminary analysis based on allozymes. *Herpetologica*. 60:373-386.
12. Aspbury, A. S. & **C. R. Gabor**. 2004. Differential sperm priming by male sailfin mollies: Effects of female and male size. *Ethology* 110: 193-202.
13. **Gabor, C. R.**, & R. Page\*. 2003. Female preference for large males in sailfin mollies, *Poecilia latipinna*: the importance of predation pressures and reproductive status. *Acta Ethologica* 6:7-12.
14. **Gabor, C. R.** & M. J. Ryan. 2001. Geographical variation in reproductive character displacement in mate choice by male sailfin mollies. *Proceedings of the Royal Society of London: Series B, Biological Sciences* 268:1063-1070.
15. **Gabor, C. R.**, J. Krenz, & R. Jaeger. 2000. Female choice, male interference, and sperm precedence in the red-spotted newt. *Behavioral Ecology* 11:115-124.
16. **Gabor, C. R.** & R. G. Jaeger. 1999. When salamanders misrepresent threat signals. *Copeia* 1999:1123-1126.
17. **Gabor, C. R.** 1999. Association patterns of sailfin mollies (*Poecilia latipinna*): alternative hypotheses. *Behavioral Ecology and Sociobiology* 46:333-340.
18. Jaeger, R. G., **C. R. Gabor**, & H. M. Wilbur. 1998. An assemblage of salamanders in the southern appalachian mountains: competitive and predatory behavior. *Behaviour* 135: 795-821
19. **Gabor, C. R.** & T. R. Halliday. 1997. Sequential mate choice by smooth newts: females become more choosy. *Behavioral Ecology* 8:162-166.  
*BBC Wildlife* 1997. Crestfallen newts. (15, no 12, 59): Article on **C. Gabor** and T. Halliday. 1997. *Behavioral Ecology* .
20. **Gabor, C. R.** 1996. Differential kin discrimination by red-spotted newts (*Notophthalmus viridescens*) and smooth newts (*Triturus v. vulgaris*). *Ethology* 102:649-659.  
*Nature Australia* 1998. Newtritious eggs? (25, no 12, 14-15): Article on **C. Gabor**. 1996. *Ethology*. *BBC Wildlife* 1997. Kin recognition. (15, no 2, 18): Article on **C. Gabor**. 1996. *Ethology*.
21. **Gabor, C. R.** 1995. Correlational test of Mathis' hypothesis that bigger salamanders have better territories. *Copeia* 1995:729-735.
22. **Gabor, C. R.** & R. G. Jaeger. 1995. Resource quality affects the agonistic behaviour of territorial salamanders. *Animal Behaviour* 49:71-79.

23. Jaeger, R. G. & **C. R. Gabor**. 1993. Intraspecific chemical communication by a territorial salamander via the post-cloacal gland. *Copeia* 1993:1171-1174.

‡Graduate student co-author, \*Undergraduate student co-author

#### **BOOK CHAPTER**

**Gabor, C. R.** In press. Agonistic Signals. *Encyclopedia of Animal Behavior*. Pp. Elsevier Press.

#### **NON-REFEREED ARTICLE**

Jaeger, R. G. & **C. R. Gabor**. 1999. Salamander social behavior. *Reptiles* vol.7, no 7, 32-47.

#### **PAPERS IN REVIEW**

**Gabor, C. R.**, ‡Gonzalez, R., \*Parmley, M. & Aspbury, A. S. In Review. Population level variation in male sailfin molly, *Poecilia latipinna*, preference for female size. *Behavioral Ecology*.

**Gabor, C. R.**, \*Parmley, M. & Aspbury, A. S. In Review. Sexually parasitic unisexual Amazon molly mate preference for large males: sensory bias or direct benefits? *Ethology*

#### **EDITED LABORATORY GUIDES**

*Organismal Biology Laboratory Exercises* (12 labs) edited by A. Aspbury & **C. R. Gabor** 2008

*Organismal Biology Laboratory Exercises* (12 labs) edited by **C. R. Gabor** & A. Aspbury 2006-2007

*Organismal Biology Laboratory Exercises* (12 labs) edited by **C. R. Gabor** 2000, 2001, 2002, 2003, 2004, 2005

*Functional Biology Laboratory Exercises* (12 labs) edited by C. Pesthy & **C. R. Gabor** 2006-2008

*Functional Biology Laboratory Exercises* (12 labs) edited by **C. R. Gabor** 2000, 2001, 2002, 2003, 2004, 2005

#### **INVITED PRESENTATIONS**

2009 RICE UNIVERSITY, Department of Biology, Evolutionary maintenance of a sexually parasitic species complex.

2008 GEORGIA STATE UNIVERSITY, Department of Biology, Evolutionary maintenance of a sexually parasitic livebearing fish: behavioral and hormonal Perspectives.

2008 AUCKLAND UNIVERSITY, New Zealand, Evolutionary maintenance of a sexually parasitic mating complex of livebearing fish.

2007 SAM HOUSTON STATE UNIVERSITY, Department of Biology. Evolutionary maintenance of a unisexual-bisexual species complex of mollies.

2007 UNIVERSITY OF CALIFORNIA, DAVIS, Graduate Group in Ecology. Evolutionary maintenance of a unisexual-bisexual species complex.

- 2005 EASTERN MICHIGAN STATE UNIVERSITY, YPSILANTI, Department of Biology. Species recognition vs mate quality recognition in a unisexual-bisexual species complex.
- 2004 TEXAS STATE UNIVERSITY, SAN MARCOS, Department of Biology. .Species recognition versus mate quality recognition by sailfin molly males: Asexuals looking for sperm.
- 2003 UNIVERSITY OF LOUISIANA, LAFAYETTE, Department of Biology. Biology Seminar. Species recognition versus mate quality recognition.
- 2003 TEXAS STATE UNIVERSITY, SAN MARCOS Department of Biology. Speciation through mate choice and species recognition in fish?
- 2002 PALO ALTO COLLEGE, Department of Biology. Biology Seminar. Female receptivity and preference for big smelly males, male choice for conspecifics females.
- 2001 TRINITY UNIVERSITY, Department of Biology. Biology Seminar. Female receptivity and preference for big smelly males, male selectivity and preference for conspecifics over female parasites.
- 2001 SOUTHWESTERN UNIVERSITY, Department of Biology. Biology Seminar. Evolution of mate choice in mollies and newts: reproductive character displacement and sequential female choice.
- 2000 SAN ANTONIO COLLEGE, Bridges Program Chemistry Department. Journal Club. The evolution of courtship in newts and geographic variation in mate choice by sailfin mollies.
- 2000 UNIVERSITY OF TEXAS AT AUSTIN, Section of Integrative Biology. Reproductive Biology Seminar. Evolution of mate choice in mollies and newts: reproductive character displacement and sequential female choice.
- 2000 TEXAS STATE UNIVERSITY, SAN MARCOS Department of Biology, Evolution of mate choice in mollies and newts: reproductive character displacement and sequential female choice.
- 1999 UNIVERSITY OF TEXAS AT AUSTIN, Section of Integrative Biology. Population Biology Seminar. Reproductive character displacement in male mate choice in sailfin mollies.
- 1998 UNIVERSITY OF TEXAS AT AUSTIN, Department of Zoology. Female choice, male interference, and sperm precedence in the red-spotted newt.
- 1997 CANTERBURY UNIVERSITY, New Zealand, Department of Zoology. Differential kin discrimination by two species of newts and a preview of sperm precedence.
- 1997 UNIVERSITY OF VIRGINIA, Department of Biology. An arms race between female choice and male-male competition in newts.
- 1996 FLORIDA STATE UNIVERSITY, Department of Biological Sciences. Preference for larger individuals in sailfin mollies: is mate choice the only factor?
- 1996 JAMES MADISON UNIVERSITY, Biology Department. The effects of size and sex on the preferences for association in sailfin mollies.
- 1996 OREGON STATE UNIVERSITY, Biology Department. Differential kin discrimination by two species of newts, *Triturus v. vulgaris* and *Notophthalmus viridescens*.
- 1996 UNIVERSITY OF TEXAS AT AUSTIN, Department of Zoology. Preference for association in sailfin mollies: interactions of size and sex.
- 1994 LOUISIANA STATE UNIVERSITY, Biology Department. Sequential mate choice by female smooth newts.
- 1994 THE OPEN UNIVERSITY, United Kingdom, Biology Department. Sequential mate choice by female smooth newts, *Triturus v. vulgaris*.

- 1994 MOUNTAIN LAKE BIOLOGICAL STATION, University of Virginia. Sequential mate choice by female smooth newts.
- 1994 CORNELL UNIVERSITY, Department of Neurobiology and Behavior. Sequential mate choice by female smooth newts.
- 1994 SIGMA XI SOCIETY, University of Southwestern Louisiana. Sequential mate choice by female smooth newts.
- 1993 MOUNTAIN LAKE BIOLOGICAL STATION, University of Virginia. The effects of prey type on territorial quality of the red-backed salamander.
- 1992 MOUNTAIN LAKE BIOLOGICAL STATION, University of Virginia. Effects of food resources on territorial quality of red-backed salamanders.

### PRESENTATIONS AT SCIENTIFIC MEETINGS

#### 2008

- ‡KJ Epp & **CR Gabor**. The effect of predator diet and prey experience on antipredator behavior in the aquatic salamander *Eurycea nana*. EVOLUTION CONFERENCE
- ‡C Espinedo, A Aspbury & **CR Gabor**. Symmetrical Isolation: A Tale of Two Species. Evolution Conference
- CR Gabor** & A Aspbury. Male preference functions based on female size in the sailfin molly, *Poecilia latipinna*: bigger is not always better. Evolution Conference
- \*J Coyle, **CR Gabor** & A. Aspbury. Male mate selection of *Poecilia latipinna* under wading bird predation risk. Honors poster presentation.

#### 2007

- ‡KJ Epp & **CR Gabor**. Texas State University: Experience affects the avoidance of native and non-native predators by the San Marcos salamander, *Eurycea nana*. Texas Herpetological Society Symposium
- ‡KJ Epp & **CR Gabor**. Experience affects salamander avoidance of native and non-native predators. Animal Behavior Society, Annual Meeting 2007
- ‡L Alberici da Barbiano, AS Aspbury, CC Nice & **CR Gabor**. Unisexual-bisexual mating systems: Is male fitness influenced by the frequency of unisexual heterospecific females?. Animal Behavior Society, Annual Meeting 2007
- ‡C Espinedo, AS Aspbury & **CR Gabor**. Male mate choice in Gambusia. Animal Behavior Society, Annual Meeting 2007
- ‡C Espinedo, **CR Gabor**, and A. S. Aspbury. Analyzing the significance of chemical versus visual cues for species recognition in male sailfin mollies. American Fisheries Society Meeting, Lake Jackson, Texas

#### 2006

- ‡D Robinson, AS Aspbury, & **CR Gabor**. Rapid spermiation during mating by male sailfin molly, *Poecilia latipinna*. Internationals Society for the Study of Behavioral Ecology.
- ‡KJ Epp & **CR Gabor**. Differential Behavioral Response of *Eurycea nana* to Native vs. Non-native predators' chemical cues. Internationals Society for the Study of Behavioral Ecology.
- ‡C Espinedo & **CR Gabor**. Analyzing the significance of chemical versus visual cues in sperm production by male sailfin mollies, *Poecilia latipinna*. Evolutionary Behavioral Ecologists Regional Annual Meeting
- ‡D Robinson, AS Aspbury, & **CR Gabor**. Differential sperm expenditure between species in the sailfin molly, *Poecilia latipinna*. Evolutionary Behavioral Ecologists Regional Annual Meeting

‡K Epp & **CR Gabor**. Differential Behavioral Response of *Eurycea nana* to Native vs. Non-native predators' chemical cues. Evolutionary Behavioral Ecologists Regional Annual Meeting

**2005**

‡L. K. Lucas, C. C. Nice, J. N. Fries, and **C. R. Gabor**. Population genetics of a threatened plethodontid salamander. SOCIETY FOR THE STUDY OF EVOLUTION Conference Annual Meeting

\*C. M. Espinedo, A. Aspbury, and **C. R. Gabor**. Analyzing the significance of chemical versus visual cues for species recognition in male sailfin mollies, *Poecilia latipinna* ANIMAL BEHAVIOR SOCIETY, Annual Meeting

‡D. Robinson, A. Aspbury and **C. R. Gabor**. Differential sperm allocation in the sailfin molly, *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

‡K. Epp and **C. R. Gabor**. Differential behavioural response of the salamander *Eurycea nana* to native vs. non-native predators' chemical cues. ANIMAL BEHAVIOR SOCIETY

‡Gonzalez, **C. R. Gabor** and Aspbury Differential sperm transfer in relation to size in sailfin mollies, *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

**2004**

A. S. Aspbury and **C. R. Gabor** Differential Sperm Priming by Male Sailfin Mollies (*Poecilia latipinna*). AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS.

**C. R. Gabor**, King, Danielle\*, and Fields, Rebecca\* No species recognition based on visual and chemical cues in male sailfin mollies, *Poecilia latipinna*. AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS

**2003**

A. Aspbury and **C. R. Gabor** Differential Sperm Priming by Male Sailfin Mollies (*Poecilia latipinna*). FIRST EUROPEAN CONFERENCE OF POECILIID BIOLOGISTS.

‡J. M. Gumm and **C. R. Gabor** Asexuals looking for sex: Species and mate-quality recognition in *Poecilia latipinna*. FIRST EUROPEAN CONFERENCE OF POECILIID BIOLOGISTS.

**C. R. Gabor** and D. King\* Examining the use of visual and chemical cues for species recognition in male Sailfin mollies, *Poecilia latipinna*. Poster at FIRST EUROPEAN CONFERENCE OF POECILIID BIOLOGISTS. Fall 2003

‡M. Thaker, **C. R. Gabor**, and J. Fries. Sensory cues and association preferences in the San Marcos salamander. TEXAS HERPETOLOGICAL SOCIETY FALL SYMPOSIUM. SOUTHWEST ASSOCIATION OF BIOLOGISTS.

‡M. Thaker, **C. R. Gabor**, and Joe Fries. Sensory cues and association preferences in the San Marcos salamander. SOUTHWEST ASSOCIATION OF BIOLOGISTS.

‡M. Thaker, **C. R. Gabor**, and Joe Fries. Sensory cues and association preferences in the San Marcos salamander. ANIMAL BEHAVIOR SOCIETY, Annual Meeting

‡J. M. Gumm and **C. R. Gabor**. Asexuals looking for sex: Species and mate-quality recognition in *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

D. King\* and **C. R. Gabor**. Species recognition and discrimination via olfactory cues in the male sailfin molly, *Poecilia latipinna*. ANIMAL BEHAVIOR SOCIETY.

A. Aspbury and **C. R. Gabor** Effects of male size and female presence on sperm availability in the sailfin molly. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

**2002**

**Gabor, C. R.** Female mate choice for novel male traits. Poster presentation at ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

**Gabor, C. R.** Female mate choice for artificially selected novel traits. Poster presentation at II INTERNATIONAL SYMPOSIUM ON LIVEBEARING FISHES: Mexico.

**2001**

**Gabor, C. R.**, R. Page\* and C. Setiawan\*. Female reproductive status and preference for smelly big males: Is size all there is? ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

**Gabor, C. R.** Geographic variation in mate choice by sailfin mollies, *Poecilia latipinna*. TEXAS ACADEMY OF SCIENCE, Annual Meeting.

**2000**

**Gabor, C. R.** and M. J. Ryan. Geographic variation in reproductive character DISPLACEMENT in mate choice by sailfin mollies. ANIMAL BEHAVIOR SOCIETY,

**1999**

**Gabor, C. R.** and M. J. Ryan. Reproductive character displacement on male mate selectivity in a unisexual-bisexual complex of live bearing fish. SOUTH CENTRAL BEHAVIOR AND EVOLUTION SOCIETY, Regional Meeting.

**Gabor, C. R.** and M. J. Ryan. Reproductive character displacement on male mate selectivity in a unisexual-bisexual complex of live bearing fish (Poeciliidae). Joint meeting of THE SOCIETY FOR THE STUDY OF EVOLUTION, AND THE AMERICAN SOCIETY OF NATURALISTS, AND THE SOCIETY OF SYSTEMATIC BIOLOGISTS.

**1998**

**Gabor, C. R.**, J. Krenz, and R. Jaeger. Female choice, male interference, and sperm precedence in the red-spotted newt. INTERNATIONAL BEHAVIORAL ECOLOGY CONGRESS.

**Gabor, C. R.**, J. Krenz, and R. Jaeger. Sexual selection for female preference and male interference in the newt, *Notophthalmus viridescens*: behavioral experiments and the detection of sperm precedence using genetic markers. Joint meeting of THE SOCIETY FOR THE STUDY OF EVOLUTION, AND THE AMERICAN SOCIETY OF NATURALISTS, AND THE SOCIETY OF SYSTEMATIC BIOLOGISTS.

**1997**

**Gabor, C. R.** An arms race between female choice and male-male competition in newts. XXV INTERNATIONAL ETHOLOGICAL CONFERENCE.

**Gabor, C. R.** Female choice in red-spotted newts: the null hypothesis and male-male competition. ANIMAL BEHAVIOR SOCIETY, Annual Meeting. Allee Award Competition

**1996**

**Gabor, C. R.** and R. G. Jaeger. The preference for big fish in sailfin mollies is not gender dependent. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

Jaeger, R. G. and **C. R. Gabor**. Variation in agonistic behavior of a territorial salamander. Joint meeting of the AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS AND THE HERPETOLOGISTS' LEAGUE, Annual Meeting.

**1995**

**Gabor, C. R.** Differential kin discrimination by egg eating salamanders. ANIMAL BEHAVIOR SOCIETY, Annual Meeting.

**1994**

**Gabor, C. R.** Sequential mate choice by the female smooth newt (*Triturus vulgaris*). Joint meeting of the HERPETOLOGISTS' LEAGUE AND THE SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES, Annual Meeting. Herpetologist League Award Competition

**Gabor, C. R.** The effects of prey type on territorial quality of the red-backed salamander, *Plethodon cinereus*. BRITISH ANIMAL BEHAVIOUR SOCIETY, Regional Meeting.

**1993**

**Gabor, C. R.** Effects of resource quality on the agonistic behavior of territorial salamanders. Joint meeting of the AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS AND THE HERPETOLOGISTS' LEAGUE, Annual Meeting.

**1992**

**Gabor, C. R.** and R. G. Jaeger. Qualifying territorial quality quantitatively. III HIGHLANDS PLETHODONTID SALAMANDER CONFERENCE.

**GRANTS RECEIVED**

|  |           |
|--|-----------|
| 2008 <b>Faculty Research Enhancement Grant</b>   | \$8000    |
| “Hormonal basis to mate choice behavior in a unisexual-bisexual mating system”   |           |
| 2004 – 2007 + 1yr extension <b>NSF–DIB</b> , Animal Behavior,<br>Grant # 0415808   | \$299,497 |
| “Species Recognition versus Mate Quality Recognition by sailfin molly males: Asexuals looking for sperm”                                       |           |
| 2006 <b>NSF–DIB</b> , REU Supplement   | \$6,000   |
| 2004 <b>Faculty Research Enhancement Grant</b> ,   | \$7,982   |
| “Differential Sperm Allocation by Male Sailfin Mollies”  |           |
| 2003 <b>Texas Higher Education Coordinating Board (THECB)</b> ,  | \$8,100   |
| Supplemental grant for High School Teachers – Matt Holmes  |           |
| 2002 <b>THECB</b> ,  | \$8,100   |
| Supplemental grant for High School Teachers – Matt Holmes  |           |
| 2001-2004 <b>THECB, Advanced Research Program</b> ,  | \$78,895  |
| Grant # 003615-0004-2001 “Species recognition versus mate quality recognition by sailfin molly males”  |           |
| 2001-2004 <b>U.S. Dept. of the Interior, Fish &amp; Wildlife Service</b>   | \$25,000  |
| Cooperative Agreement #1448-20181-01-J824 Project Officer with Joe Fries   |           |
| “Behavioral aspects for reproduction in San Marcos salamanders”  |           |
| 2001 <b>Faculty Research Enhancement Grant</b> ,   | \$7,000   |
| “Testing pre-existing bias theory: female mate choice for novel male traits”   |           |
| 1997-1999 <b>NSF</b> Postdoctoral Research Fellowship,   | \$80,000  |
| “Evaluation of reproductive character displacement on male mate selectivity in a unisexual-bisexual complex of livebearing fish (Poeciliidae)” |           |
| 1996 <b>Sigma Xi</b> , The Scientific Research Society,  | \$500     |
| “Female mate choice in salamanders: the interaction of previous experience with males and male-male competition”                               |           |
| 1993-1997 <b>Louisiana Board of Regents</b> Doctoral Fellowship,   | \$64,000  |
| 1991-1996 <b>Graduate Student Organization</b> , Univ. of Louisiana,   | \$2800    |
| 1993 <b>Sigma Xi</b> , The Scientific Research Society,  | \$390     |
| “The effects of operational sex ratio on male mating strategies”   |           |
| 1992 <b>Walton Scholarship</b> , Mountain Lake Biol. Station, Univ. of Virginia,   | \$1000    |

FUNDED COOPERATIVE GRANT

- 2004-2007 **U.S. Dept. of the Interior, Fish & Wildlife Service,** \$25,000  
This grant funds the research of Lauren Lucas, a PhD student co-advised with Chris Nice via an agreement with Project Officer Joe Fries  
“Genetics of San Marcos salamanders produced in captivity”

**PROPOSALS SUBMITTED**

- 2009 **NSF-IOB**, submitted with Drs. Nice, and Aspbury, “The maintenance of unisexuality: Behavior, hormones, and genetic diversity in a unisexual-bisexual mating complex” \$437,800 – in review  
2008 **National Geographic Society grant pre-proposal** with Drs. Nice and Aspbury, and L. Alberici da Barbiano. “Phylogenetic relationships among mollies and multiple origins of a gynogenetic species” – approved for full submission \$15000 requested.

**PROPOSALS SUBMITTED/Not funded**

- 2008 **NSF-IOB**, submitted with Drs. Nice and Aspbury, “Behavioral and genetic diversity across populations of unisexual Amazon mollies in a unisexual-bisexual mating complex” \$407,813  
2008 **NSF-IOB**, submitted with Drs. Nice and Aspbury, “Why do males mismatch in a unisexual-bisexual mating system: condition-dependent mating decisions and genetic variation in unisexuals?” \$399,951  
2007 **TPW Section 6** “The Role of Communication on Social Behaviors in Texas Blind Salamanders” \$93391  
2007 **NSF DDIG** “The role of experience in threat-sensitive predator avoidance in aquatic salamanders” \$5090 with Kristen Epp, Doctoral Candidate  
2007 **THECB ARP** preproposal “Why do unisexual vertebrate lineages persist? Genetic and behavioral perspectives” \$150000  
2007 **NSF-IOB**, submitted with Drs. Nice and Aspbury, “Ecology & Evolutionary perspectives on the maintenance of unisexual gynogens: behavioral implications” \$400,934  
2006 **TPW Section 6** “Effects of introduced fish predators on the san marcos salamander” \$5725 with Kristen Epp.  
2006 **NSF DDIG** - “Predator recognition and avoidance in aquatic salamanders: the roles of predator experience and risk assessment” with Kristen Epp, Doctoral Candidate  
2005 **NSF REU SITE # 6506733** with Dr. Ott- “Ecology and Evolutionary Ecology”  
2005 **THECB, Advanced Research Program** with Dr. Nice – “Evolutionary Maintenance of an Asexual Species Complex: Fitness Consequences for Male Sailfin Mollies”  
2005 **Barton Springs/ Edwards Aquifer Conservation District Requests**  
**Qualifications.** “Proposals for professional services to develop and implement an experimental study on Endangered *Eurycea Sosorum*, The Barton Springs Salamander” with Epp and Glusenkamp.

- 2003 **NSF** Animal Behavior Section, DIB - \$408,839 with CO-PI Andrea Aspbury. “Mate choice in a unisexual-bisexual system: species recognition versus mate choice recognition and spermatogenesis”
- 2003 **THECB, Advanced Research Program** – pre-proposal submitted before program was eliminated. We incorporated funding for graduate and undergraduate students and planned on submitting an extra section to fund minorities and high school teachers if we got funded.

#### **PROPOSALS SUBMITTED/Not funded Internal**

- 2008 **Mitte Grant** - Clonal diversity in a unisexual species of fish? \$24315 cancelled
- 2007 **Mitte Grant** “Evolutionary maintenance of a unisexual-bisexual species complex” \$24918
- 2007 **REP** “Does asymmetrical competition help explain the maintenance of a unisexual-bisexual species complex?” \$8000
- 2006 **REP** grant proposal “Fitness Consequences for Male Sailfin Mollies in a Unisexual Bisexual Species Complex”
- 2005 **REP** grant proposal with Andrea Aspbury – “Maintenance of an Asexual Species Complex: Fitness Consequences for Male Sailfin Mollies”
- 2002 **REP** grant proposal – “Differential Sperm Allocation by Male Sailfin Mollies”

#### **AWARDS AND HONORS**

- 2005 Texas State University Presidential Award for Excellence in Scholarly/Creative Activities
- 2004 Runner up for the College of Science at Texas State University Presidential Award for Excellence in Scholarly/Creative Activities
- 1995 Elected to Associate Membership in Sigma Xi, The Scientific Research Society

## **IV. SERVICE**

### **UNIVERSITY**

- Advisor for the Triathlon Club (2002-present)
- University Seminar Committee (2005-present)
- Graduate College Scholarship Committee (2007, 2008)
- Durrenberger Endowed Scholarship in Science for Women committee (2005- 2006, 2008)
- Scholars of Promise Science Tours for Department of Biology (2005-2008)
- Tenure Track Faculty Orientation - Tenure process lecture (fall 2005)
- Grant Proposal Writing Skills lecture for OSP (fall 2006)
- Presidential Award for Excellence in Scholarly/Creative Activities committee (2006, 2007)

### **DEPARTMENTAL**

- Performance and Merit Committee (2008)
- Chair Francis Rose Undergraduate Award for Excellence in Biological Research – started, organize and run this award with Chris Nice (2003-present)
- Co-coordinator of Biology Student Colloquium 2006-present
- Chair Seminar committee member 2000 - present
- Chair Undergrad committee 2005- present
- Promotion and Tenure Tracking Committee 2006-present
- PhD Proposal Preparation Committee 2007

Stream Ecologist committee 2005-2006  
Department Chair Search committee x 2 -2005-2006  
Undergraduate Research Committee 2006-present  
Schluze Award Committee 2005-present  
IA committee 2005  
Graduate committee 2005  
Coordinate and initiated the Evolution, Ecology, and Behavior (EEB) journal club,  
Department of Biology. Texas State University (2000-present)  
Created and maintain Undergraduate Research Website 2007  
<http://www.bio.txstate.edu/~egabor/Undergradresearch.html>  
Maintain Seminar website (2004-present)  
<http://www.bio.txstate.edu/~gabor/seminar/seminar.html>  
Recruited and hosted (3 days) a nationally recognized research scientist, Dr. Andre  
Fernandez, from MD Anderson Cancer Research Center for the department's seminar  
series (spring 2009)  
Recruited and hosted (3 days) a nationally recognized research scientist, Dr. Andy Sih,  
from University of California, Davis for the department's seminar series (fall 2007)  
Recruited and hosted (3 days) a nationally recognized research scientist, Dr. Sue Bertram,  
from Carlton University, Canada for the department's seminar series (fall 2007)  
Recruited and hosted (1 day) Dr. Andrew Gluesenkamp, from Zara Environmental for the  
department's seminar series (fall 2007)  
Recruited and hosted (1 day) Dr. Tara Maginnis, from St. Edwards University for the  
department's seminar series (spring 2007)  
Recruited and hosted (1 day) a nationally recognized research scientist, Dr. Gil Rosenthal,  
from Texas A& M for the department's seminar series (fall 2006)  
Recruited and hosted (3 days) a nationally recognized research scientist, Dr. Peter  
Bednekoff, from Eastern Michigan University for the department's seminar series  
(spring 2006)  
Recruited and hosted (1 day) a nationally recognized research scientist, Adam Jones, from  
Texas A& M for the department's seminar series (fall 2005)  
Recruited and hosted (3 days) two maturing scientists Raelynn Deaton and Chad Hargrave  
from University of Oklahoma for the department's seminar series and for EEB (spring  
2005)  
Recruited a nationally recognized research scientist, Dr. Alicia Mathis, University of  
Southwestern Missouri, for the department's seminar series (fall 2004)  
Recruited a nationally recognized research scientist, Dr. Laurie Dries, University of Texas,  
Austin, for the department's seminar series (spring 2004)  
Recruited a nationally recognized research scientist, Dr. Romi Burks, Southwestern Univ.  
for the department's seminar series (spring 2004)  
Recruited and hosted (3 days) a nationally recognized research scientist, Dr. Margaret  
Ptacek, Clemson University, for the department's seminar series (spring 2003)  
Recruited and hosted (3 days) a nationally recognized research scientist, Dr. Paul  
Chippindale, UT Arlington, for the department's seminar series (fall 2003)  
Recruited and hosted a nationally recognized postdoctoral scientist, Dr. Molly Cummings,  
University of Texas, Austin, for the department's seminar series (fall 2002)  
Hosted a nationally recognized postdoctoral scientist, Dr. Andrea Aspbury, University of  
Nebraska, for the department's seminar series (spring 2002)

Recruited and hosted (3 days) a nationally recognized research scientist, Dr. Robert Jaeger, University of Louisiana, Lafayette, for the department's seminar series (spring 2001)  
Recruited and hosted a nationally recognized postdoctoral scientist, Dr. Karin Pfennig, University of Texas, for the department's seminar series (fall 2001)  
Recruited and hosted a nationally recognized postdoctoral scientist, Dr. Ingo Schlupp, University of Texas, for the department's seminar series (fall 2001)  
Recruited and hosted a nationally recognized research scientist, Dr. Mike Ryan, University of Texas, for the department's seminar series (fall 2001)  
Judge for Biology Department Student Colloquium (spring 2001)  
Mentor for Margaux Salas, a Freshman Biology Major (2000)

### COMMUNITY

Presented at the Midstream meeting for the Flowing Waters program 2008  
Judge for the Hamilton Award –Evolution Conference 2008  
Presented at Travis High School – Women in Science for Marty Wise Spring 2006  
Panelist for Women in Science discussion at the Lady Bird Johnson Wildflower center (spring 2005, 2006)  
Poster Judge for Society for Advancement of Chicanos and Native Americans in Science (fall 2004)  
Mentor for Minority Undergraduates at Animal Behavior Society Conference (Summer 2003)  
SMTEI mentor for Lanier, TX high school teacher Matt Holmes (summer 2001-2003)

### PROFESSIONAL

Associate Editor for *Behavioral Ecology and Sociobiology* (2005-present)  
Associate Editor for *Amphibia-Reptilia* (2009-present)

#### EXTERNAL GRANT REVIEWER

NSF # 087647 (spring 2007)  
NSF # 0716035 (spring 2007)  
NSF # 0642062 - NSF Grant proposal (fall 2006)  
NSF # 0615753 - NSF Grant proposal (spring 2006)  
NSF # 0608568 - NSF Grant proposal (spring 2006)  
Austrian Science Fund (FWF) the Austrian equivalent to NSF x1 2004 and final Report 2006  
NSF Panel Reviewer 2005  
NSF # 0516922 - NSF Grant proposal (spring 2005)  
NSF # 0517649 - NSF Grant proposal (spring 2005)  
NSF # 044538 - NSF Grant proposal (fall 2004)  
NSF # 0445143 - NSF Grant proposal (fall 2004)  
NSF # 022311 - NSF Grant proposal for Research projects supported through BIO C-RUI (spring 2002)

#### JOURNALS REVIEWER

*Acta Ethologica, Amphibia Reptilia, Animal Behaviour, American Naturalist, Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Copeia, Ethology, Ethology, Ecology, and Evolution, Evolution, Herpetologica, Journal of Ethology, Journal of Fish Biology, Journal of Herpetology, Naturwissenschaften,*

*Proceedings of National Academy of Science, Proceedings of the Royal Society of London, Series B Biological Science*

TEXTBOOK AND LAB MANUAL REVIEWS

TEXES exam question writer 2007-present

Reviewed for Freeman *Biology* 2008

Review of *Biology* Brooker/*Biology* by McGraw Hill – spring 2006, fall 2007, 2008

Reviewed *A Short Guide to Writing about Biology* 2006

Pearson 2005 *Investigative Biology*

*Animal Behavior* Textbook for Prentice Hall-Pearson Education 2004

*Applications in Biological Science Laboratory* Lab Manual, Tarrant & Besaw for Thomson Learning 2001

*Investigative Biology* Lab Manual, Morgan & Carter for Benjamin Cummings 2000

**PROFESSIONAL AFFILIATIONS**

American Association for the Advancement of Science

Animal Behavior Society

International Society for Behavioral Ecology

Sigma Xi, The Scientific Research Society

Society for the Study of Evolution